



Air Quality Monitoring Network for October 2007

Prepared by
FOCUS
 AMBIENT AIR MONITORING

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December 3, 2007

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

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

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

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

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

During the month of October the following events were noted:

Henry Pirker Station:

- ◆ All analyzers / sensors at the Henry Pirker station had an operational uptime greater than 90%.
- ◆ On October 3rd and 4th there were no spans on the CO analyzer, due to cylinder running out – it was replaced on October 4th.
- ◆ On October 13th and 14th there were no spans on the THC analyzer, due to drop in regulator pressure.
- ◆ The O₃ analyzer had a number of days where the spans were unstable due to failing UV lamp, new lamp is on order.
- ◆ On October 27th there were a series of power failures at the station which resulted in a number of invalid hours for all sensors and analyzers.
- ◆ The **TEOM** analyzer had an electronic malfunction (due to the power failure on the 27th) which resulted in a 90.2% uptime. This was originally determined to be less than 90% (seventy-two (72) hours of invalid data) and was reported to **Alberta Environment – reference #195202**; however, the quality assurance (qa) process was able to assess the operational uptime at 90.2%. **This non-compliance incident was not recinded.**
- ◆ On October 29th to the 30th, thirteen (13) hours were invalidated for all analyzers and sensors due to a communication error.
- ◆ On October 31st maintenance was performed on the TEOM.
- ◆ The AQI for the month resulted in 630 hours of Good readings and 1 hour of Fair readings.

Evergreen Park Station:

- ◆ The TRS spans increased greater than 10% from October 14th to the 19th and 21st and 22nd, reason undetermined.

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

Smoky Heights Station:

- ◆ On October 3rd and 4th there were eleven (11) hours flagged invalid for the wind speed and wind direction sensors – sensors flatlined, reason unknown.
- ◆ On October 4th the SO₂ TECO 43C analyzer was replaced with the TECO 43I analyzer (initial installation was February 19th, 2007 but was removed for warranty repairs August 8th, 2007). There were twenty (20) hours flagged for maintenance for removal and start-up of the analyzers.
- ◆ Power failure on October 24th resulted in a number of hours of invalid data for all analyzer and sensors at the station.
- ◆ All analyzers / sensors at the Smoky Heights station had an operational uptime greater than 90%.

Beaverlodge Station:

- ◆ All analyzers / sensors at the Beaverlodge station had an operational uptime greater than 90%.
- ◆ The AQI for the month resulted in 692 hours of Good readings and 1 hour of Fair readings.

Portable – Spirit River Station:

- ◆ Maintenance activity on October 16th resulted in several hours of invalid data for the SO₂ and NO_x analyzers.
- ◆ Wind sensors were flagged invalid for four (4) hours on October 16th in an attempt to replace the relative humidity and temperature gauges – wrong sensor was sent by factory. The relative humidity and temperature sensors continue to be out of service for the month of October – Alberta Environment reference # 192650.
- ◆ All analyzers / sensors at the Spirit River station had an operational uptime greater than 90%.

Valleyview Station:

- ◆ Maintenance (replaced perm tube) on October 2nd resulted in one (1) hour of invalid data for the SO₂ analyzer.
- ◆ A power failure on October 22nd resulted in several hours of invalid data for all parameters.
- ◆ All analyzers / sensors at the Valleyview station had an operational uptime greater than 90%.

Passive Monitoring: 54 Stations throughout the PASZA zone:

Field notes during collection noted the following issues: the O₃ sample from the Cadotte Lake School site (#55) was damaged, a note of caution when reviewing the result. The Hythe site (#12), the passive shelter and samples were completely damaged by gunshot and found on the ground, there are no results for this site. All samples at the Ronan site (#54) were missing (there were ATV tracks at the site), there are no results for this site. There were six duplicate sites sampled in the month of October: Smoky Heights, Fitzsimmons, Peavine, Gift Lake, Ronan 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 0.0 ppb to 0.6 ppb, with a mean of 0.2 ppb.
 - Monthly average concentrations for NO₂ passives ranged from 0.0 ppb to 17.2 ppb, with a mean of 2.2 ppb.
 - Monthly average concentrations for O₃ passives ranged from 18.7 ppb to 49.5 ppb, with a mean of 27.7 ppb.
-

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

On Behalf of the,
Peace Airshed Zone Association



Michael Bisaga
PASZA Program Manager



Sharon Whiteley, B.Sc..
AQM Data Specialist

PASZA Monthly Continuous Data Summary

Oct-2007 Peace Airshed Zone Association							Maximum Recorded Values						Operational Time (%)	
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		Conc	1-hr		WSPD (km/hr)	WDIR (Sector)	24-hr / 8-hr		
	1-hr	24-hr			1-hr	24-hr		Day	Day					
SO ₂ (ppb)	172	57	Henry Pirker	0.1	0	0	2.9	Oct-24 01:00	12.2	ESE	0.5	Oct-20	97.6%	
SO ₂ (ppb)	172	57	Evergreen Park	0.5	0	0	7.8	Oct-11 12:00	24.3	W	1.8	Oct-24	100.0%	
SO ₂ (ppb)	172	57	Smoky Heights	0.3	0	0	3.0	Oct-30 09:00	18.6	WSW	0.7	Oct-10	96.9%	
SO ₂ (ppb)	172	57	Beaverlodge	0.3	0	0	5.7	Oct-16 18:00	7.2	NE	1.1	Oct-20	100.0%	
SO ₂ (ppb)	172	57	Portable-Spirit River	0.3	0	0	5.4	Oct-13 09:00	12.4	SSW	1.0	Oct-13	98.9%	
SO ₂ (ppm)	172	57	Valleyview	0.77	0	0	16.33	Oct-01 16:00	10.5	WNW	3.71	Oct-25	99.3%	
NO (ppb)			Henry Pirker	7.1	-	-	163.8	Oct-18 08:00	5.8	WNW	31.7	Oct-15	98.0%	
NO ₂ (ppb)	212	106	Henry Pirker	11.3	0	0	36.7	Oct-12 18:00	6.3	E	22.9	Oct-13	98.0%	
NO _x (ppb)			Henry Pirker	18.4	-	-	189.7	Oct-18 08:00	5.8	WNW	52.1	Oct-15	98.0%	
NO (ppb)			Beaverlodge	0.6	-	-	30.3	Oct-10 11:00	2.0	W	7.0	Oct-10	100.0%	
NO ₂ (ppb)	212	106	Beaverlodge	3.5	0	0	14.8	Oct-16 07:00	5.2	NW	10.6	Oct-10	100.0%	
NO _x (ppb)			Beaverlodge	4.0	-	-	42.0	Oct-15 10:00	4.0	WSW	17.5	Oct-10	100.0%	
NO (ppb)			Portable-Spirit River	0.6	-	-	13.7	Oct-22 16:00	15.7	WSW	2.0	Oct-15	98.8%	
NO ₂ (ppb)	212	106	Portable-Spirit River	3.0	0	0	15.1	Oct-26 07:00	4.5	S	6.8	Oct-15	98.8%	
NO _x (ppb)			Portable-Spirit River	3.6	-	-	21.5	Oct-22 16:00	15.7	WSW	8.7	Oct-15	98.8%	
O ₃ (ppb)	82		Henry Pirker	19.2	0	-	45.6	Oct-27 13:00	21.3	W	33.8	Oct-31	98.0%	
O ₃ (ppb) - 8-hr		65	Henry Pirker			0					40.2	Oct-31		
O ₃ (ppb)	82		Beaverlodge	25.3	0	-	51.2	Oct-25 16:00	19.5	WNW	38.1	Oct-27	100.0%	
O ₃ (ppb) - 8-hr		65	Beaverlodge			0					45.6	Oct-27		
O ₃ (ppb)	82		Portable-Spirit River	25.0	0	-	44.7	Oct-27 14:00	22.3	WSW	37.0	Oct-27	100.0%	
O ₃ (ppb) - 8-hr		65	Portable-Spirit River			0					42.9	Oct-27		
CO (ppm)	13		Henry Pirker	0.19	0	-	1.1	Oct-18 07:00	5.2	W	0.3	Oct-13	98.0%	
CO (ppm) - 8-hr		5	Henry Pirker			0					0.6	Oct-18		
THC (ppm)			Henry Pirker	1.87	-	-	2.9	Oct-05 23:00	8.3	SSE	2.2	Oct-10	97.8%	
TRS (ppb)			Henry Pirker	0.3	-	-	1.4	Oct-12 21:00	4.9	S	0.6	Oct-15	98.0%	
TRS (ppb)			Evergreen Park	0.5	-	-	2.4	Oct-19 07:00	6.5	W	1.0	Oct-01	100.0%	
TRS (ppb)			Smoky Heights	0.4	-	-	2.1	Oct-23 17:00	2.9	NNW	0.7	Oct-23	99.6%	
TRS (ppb)			Portable-Spirit River	0.5	-	-	1.4	Sep-22 22:00	1.6	SSE	0.6	Sep-22	100.0%	
H ₂ S (ppb)	10	3	Valleyview	0.0	0	0	0.9	Oct-20 18:00	6.0	WNW	0.2	Oct-16	99.5%	
PM _{2.5} (µg/m ³)		30 ^a	Henry Pirker	3.8	0	0	38.2	Oct-26 19:00	9.4	SW	13.9	Oct-15	90.2%	
PM _{2.5} (µg/m ³)		30 ^a	Evergreen Park	4.5	0	0	47.7	Oct-27 18:00	10.3	W	13.7	Oct-15	98.9%	
PM _{2.5} (µg/m ³)		30 ^a	Smoky Heights	3.0	0	0	31.0	Oct-17 19:00	9.1	WSW	7.6	Oct-16	99.5%	
PM _{2.5} (µg/m ³)		30 ^a	Beaverlodge	2.5	0	0	15.6	Oct-15 19:00	8.0	NNE	7.7	Oct-15	98.8%	

PASZA Monthly Continuous Data Summary - continued

Oct-2007		Peace Airshed Zone Association					Maximum Recorded Values						
							1-hr			24-hr / 8-hr			
RH (%)		Henry Pirker	66.6	-	-	-	-	-	-	-	-	-	98.1%
RH (%)		Beaverlodge	66.3	-	-	-	-	-	-	-	-	-	100.0%
RH (%)		Portable-Spirit River	0.0	-	-	-	-	-	-	-	-	-	-
RH (%)		Valleyview	63.6	-	-	-	-	-	-	-	-	-	99.6%
SR (W/m ²)		Henry Pirker	68.6	-	-	-	-	-	-	-	-	-	98.1%
Temp (°C)		Henry Pirker	5.3	-	-	-	-	-	-	-	-	-	98.1%
Temp (°C)		Evergreen Park	4.9	-	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Smoky Heights	5.0	-	-	-	-	-	-	-	-	-	99.7%
Temp (°C)		Beaverlodge	5.1	-	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Portable-Spirit River	0.0	-	-	-	-	-	-	-	-	-	-
Temp (°C)		Valleyview	5.3	-	-	-	-	-	-	-	-	-	99.6%
WSPD v (km/hr)		Henry Pirker	11.3	-	-	38.8	Oct-24 14:00	38.8	WSW	21.5	Oct-24		98.1%
WSPD v (km/hr)		Evergreen Park	8.0	-	-	33.1	Oct-31 15:00	33.1	WSW	20.5	Oct-24		100.0%
WSPD v (km/hr)		Smoky Heights	2.4	-	-	14.9	Oct-07 15:00	14.9	W	27.5	Oct-24		98.3%
WSPD v (km/hr)		Beaverlodge	8.7	-	-	36.5	Oct-24 13:00	36.5	WNW	23.6	Oct-24		100.0%
WSPD v (km/hr)		Portable-Spirit River	10.3	-	-	39.1	Oct-31 15:00	39.1	WSW	26.1	Oct-31		99.5%
WSPD v (km/hr)		Valleyview	9.9	-	-	23.9	Oct-25 09:00	23.9	WNW	15.8	Oct-25		99.6%
WSPD s (km/hr)		Henry Pirker	12.0	-	-	39.1	Oct-24 14:00	39.1	WSW	25.5	Oct-24		98.1%
WSPD s (km/hr)		Evergreen Park	8.7	-	-	33.4	Oct-31 15:00	33.4	WSW	22.2	Oct-24		100.0%
WSPD s (km/hr)		Smoky Heights	14.3	-	-	50.4	Oct-24 10:00	50.4	WSW	29.9	Oct-24		98.3%
WSPD s (km/hr)		Beaverlodge	9.1	-	-	36.7	Oct-24 13:00	36.7	WNW	24.3	Oct-24		100.0%
WSPD s (km/hr)		Portable-Spirit River	10.6	-	-	39.2	Oct-31 15:00	39.2	WSW	26.2	Oct-31		99.5%
WSPD s (km/hr)		Valleyview	6.9	-	-	24.5	Oct-07 16:00	24.5	NW	16.3	Oct-25		99.6%
WDIR		Henry Pirker	SW	-	-	-	-	-	-	-	-	-	98.1%
WDIR		Evergreen Park	WSW	-	-	-	-	-	-	-	-	-	100.0%
WDIR		Smoky Heights	S	-	-	-	-	-	-	-	-	-	98.3%
WDIR		Beaverlodge	W	-	-	-	-	-	-	-	-	-	100.0%
WDIR		Portable-Spirit River	WSW	-	-	-	-	-	-	-	-	-	99.5%
WDIR		Valleyview	N	-	-	-	-	-	-	-	-	-	99.6%

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 October 9th (SO₂, NO_x and O₃), October 10th (TRS) and October 11th (THC and CO). Power fluctuations on October 27th created havoc on all the analyzers. On October 29th and 30th there is thirteen hours of invalid data due to a communication error.

Parameter	Make	Model	Notes
SO ₂	TEI	43C	Two hours flagged invalid due to power fluctuations on October 27 th . On October 29 th and 30 th there are thirteen hours of invalid data due to a communication error.
NO _x /NO/NO ₂	TEI	42C	Two hours flagged invalid due to power fluctuations on October 27 th . On October 29 th and 30 th there is thirteen hours of invalid data due to a communication error.
O ₃	TEI	49C	Two hours flagged invalid due to power fluctuations on October 27 th . On October 29 th and 30 th there is thirteen hours of invalid data due to a communication error.
CO	TEI	48C	Two hours flagged invalid due to power fluctuations on October 27 th . On October 29 th and 30 th there is thirteen hours of invalid data due to a communication error.
THC	TEI	51-CLT	Two hours flagged invalid due to power fluctuations on October 27 th . On October 29 th and 30 th there is thirteen hours of invalid data due to a communication error.
TRS	TEI	43C	Two hours flagged invalid due to power fluctuations on October 27 th . On October 29 th and 30 th there is thirteen hours of invalid data due to a communication error.
PM _{2.5}	R&P	1400AB	Three hours flagged invalid due to power fluctuations on October 27 th , followed by seventy-two hours of invalid data due to an electronic malfunction which took time to go through diagnostic testing to complete repairs. Alberta Environment reference #195202.
RH	Met One	083D	One hour flagged invalid due to power fluctuations on October 27 th . On October 29 th and 30 th there is thirteen hours of invalid data due to a communication error.
AT	Met One	083D	One hour flagged invalid due to power fluctuations on October 27 th . On October 29 th and 30 th there is thirteen hours of invalid data due to a communication error.
SR	Met One	096-1	One hour flagged invalid due to power fluctuations on October 27 th . On October 29 th and 30 th there is thirteen hours of invalid data due to a communication error.
WS/WD	Met One	010C/020C	One hour flagged invalid due to power fluctuations on October 27 th . On October 29 th and 30 th there is thirteen hours of invalid data due to a communication error.

PASZA – Evergreen Park Station

General Station Issues

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

Parameter	Make	Model	Notes
SO ₂	TEI	43i	No operational issues observed.
TRS	TEI	43C	Span increase on TRS analyzer on October 14 to 19, 21 st and 22 nd , reason unknown.
PM _{2.5}	R&P	1400AB	Power bump resulted in one (1) hour of invalid data on October 16 th . Seven (7) hours were removed due to excessive baseline drift.
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 October 4th (TRS and TEOM). On October 4th a removal calibration was performed on the SO₂ 43C analyzer and an installation calibration of the SO₂ 43I analyzer was performed on October 5th.

Parameter	Make	Model	Notes
SO ₂	TEI	43C	Replacement of the 43C analyzer resulted in twenty (20) hours of data flagged maintenance for the start-up and stabilizing of the 43I analyzer. Power failure resulted in three (3) hours of invalid data on October 24 th .
TRS	TEI	43C	Power failure resulted in three (3) hours of invalid data on October 24 th .
PM _{2.5}	R&P	1400AB	The TEOM had one (1) hour of invalid data due to power bump on October 3 rd and a power failure on October 24 th resulted in three (3) hours of invalid data.
AT	Met One	083D	Power failure resulted in two (2) hours of invalid data on October 24 th .
WS	Met One	010C	Eleven (11) hours were flagged invalid on October 3 rd and 4 th – sensor flatlined, reason unknown. Power failure resulted in two (2) hours of invalid data on October 24 th .
WD	Met One	020C	Eleven (11) hours were flagged invalid on October 3 rd and 4 th – sensor flatlined, reason unknown. Power failure resulted in two (2) hours of invalid data on October 24 th .

PASZA – Beaverlodge Station

General Station Issues

Routine monthly calibrations were performed on October 25th (NO_x, SO₂ and O₃). Calibration on October 1st (O₃) was a late calibration for the month of October. TEOM was calibrated on October 1st.

Parameter	Make	Model	Notes
SO ₂	TEI	43CTL	No operational issues observed.
NO _x /NO/NO ₂	TEI	42C	No operational issues observed.
O ₃	TEI	49C	No operational issues observed.
PM _{2.5}	R&P	1400AB	Nine (9) 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 – Spirit River (Portable) Station

General Station Issues

Routine monthly calibrations were performed on October 16th (SO₂, NO_x, O₃ and TRS). An attempt to replace the temperature and relative humidity sensors was made on October 16th but the wrong sensor was sent from the factory.

Parameter	Make	Model	Notes
SO ₂	TEI	43C	Maintenance activity (rewiring) on October 16 th resulted in two (2) hours of invalid data.
NOx/NO/NO ₂	TEI	42i	Maintenance activity (rewiring) on October 16 th resulted in three (3) hours of invalid data.
TRS	TEI	43C	No operational issues observed.
O ₃	TEI	49C	No operational issues observed.
AT	Gill	Met Pak 3	The temperature & relative humidity sensors continue to be out of service – Alberta Environment reference # 192650.
RH	Gill	Met Pak 3	The temperature & relative humidity sensors continue to be out of service – Alberta Environment reference # 192650.
WS	Gill	Met Pak 3	Maintenance activity on October 16 th resulted in four (4) hours of invalid data.
WD	Gill	Met Pak 3	Maintenance activity on October 16 th resulted in four (4) hours of invalid data.

PASZA – Valleyview Station

General Station Issues

Routine monthly calibrations were performed on October 17th (SO₂ and H₂S).

Parameter	Make	Model	Notes
SO ₂	TEI	43i	Maintenance (perm tube replaced) on October 2 nd resulted in one (1) hour of invalid data. Power failure on October 22 nd resulted in four (4) hours of invalid data.
H ₂ S	TEI	43A	Power failure on October 22 nd resulted in four (4) hours of invalid data.
AT	Gill	Met Pak 3	Power failure on October 22 nd resulted in three (3) hours of invalid data.
RH	Gill	Met Pak 3	Power failure on October 22 nd resulted in three (3) hours of invalid data.
WS	Gill	Met Pak 3	Power failure on October 22 nd resulted in three (3) hours of invalid data.
WD	Gill	Met Pak 3	Power failure on October 22 nd resulted in three (3) hours of invalid data.

PASZA – Henry Pirker Station

Monthly Summary Tables, Graphs and Roses

PASZA - Henry Pirker AQI Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

Air Quality Index (AQI)

Monitoring Dates: October 1, 2007 to November 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:	630
Number of 1-hr Fair Readings:	1
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-Oct-07	10	8	8	7	7	3	4	3	3	5	8	12	14	15	15	N	12	14	11	12	13	12	14	12
2-Oct-07	13	10	9	12	12	8	5	6	8	10	13	16	18	18	N	17	16	15	13	13	14	14	13	11
3-Oct-07	11	10	11	10	9	N	5	5	7	8	10	13	15	11	14	12	15	10	8	9	11	10	10	8
4-Oct-07	8	9	10	10	N	11	9	8	10	10	10	10	10	10	10	10	8	9	8	8	8	8	8	8
5-Oct-07	8	7	7	N	6	5	4	5	5	6	6	7	8	11	14	16	15	13	6	7	8	8	5	7
6-Oct-07	11	9	N	11	11	12	11	9	11	14	16	17	17	18	19	19	19	17	14	13	6	9	10	13
7-Oct-07	15	N	14	15	14	13	11	10	9	8	9	9	10	11	12	13	18	20	18	19	19	17	17	15
8-Oct-07	N	16	16	15	15	9	6	7	11	14	17	19	19	19	20	20	19	14	7	7	10	10	9	N
9-Oct-07	4	2	2	2	8	10	9	9	11	2	N	N	N	N	N	2	2	2	2	12	11	11	11	11
10-Oct-07	11	11	7	4	4	N	4	7	10	10	5	7	7	6	5	6	4	5	8	10	11	7	5	4
11-Oct-07	5	6	11	12	12	N	8	6	11	12	16	18	N	N	18	18	17	15	14	11	8	10	10	11
12-Oct-07	10	10	7	4	6	N	6	6	6	6	10	13	16	18	19	19	17	12	9	12	14	11	8	7
13-Oct-07	10	9	7	6	N	6	6	6	5	5	6	10	14	14	14	15	11	8	10	12	6	8	7	7
14-Oct-07	8	9	7	N	5	6	5	7	10	10	10	12	17	17	17	16	13	11	10	8	7	9	7	6
15-Oct-07	9	9	N	8	8	7	12	14	14	11	11	12	14	9	10	16	16	10	17	20	17	18	18	13
16-Oct-07	11	8	7	7	6	N	9	12	16	9	6	7	8	9	10	6	7	10	18	13	8	5	8	10
17-Oct-07	10	8	8	5	N	5	5	5	4	4	5	7	11	13	16	16	15	8	8	7	5	7	8	7
18-Oct-07	5	5	5	N	5	6	9	11	N	10	5	6	8	13	14	14	12	7	7	6	9	11	11	12
19-Oct-07	6	5	5	4	5	N	4	5	4	4	7	9	11	13	15	14	14	6	7	7	6	5	8	6
20-Oct-07	6	5	5	5	N	4	5	6	8	7	7	9	9	12	12	12	12	8	8	8	8	9	10	10
21-Oct-07	9	10	10	N	7	4	5	5	5	8	7	6	8	9	10	12	12	8	6	13	15	16	16	16
22-Oct-07	14	14	N	12	12	8	8	8	7	9	9	11	11	10	7	7	7	8	9	8	8	8	9	8
23-Oct-07	9	N	7	9	6	5	4	4	10	11	10	9	8	9	8	8	6	3	3	3	3	2	2	2
24-Oct-07	N	3	5	7	2	5	13	17	18	18	18	17	16	17	18	18	17	17	17	16	17	17	18	N
25-Oct-07	18	17	16	16	15	14	13	12	12	14	16	18	18	18	18	17	15	13	12	13	14	14	N	15
26-Oct-07	15	15	15	17	17	17	10	6	7	11	17	18	17	17	17	17	14	11	15	29	11	N	9	7
27-Oct-07	7	10	11	9	7	8	6	6	7	8	18	N	N	N	N	N	N	N	N	N	N	N	N	N
28-Oct-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
29-Oct-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
30-Oct-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	17	16	14	13	14	16	16	17	18
31-Oct-07	20	19	19	19	18	N	8	9	7	7	15	18	20	23	22	21	20	N	19	18	18	17	18	18

PASZA - Henry Pirker Sulphur Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

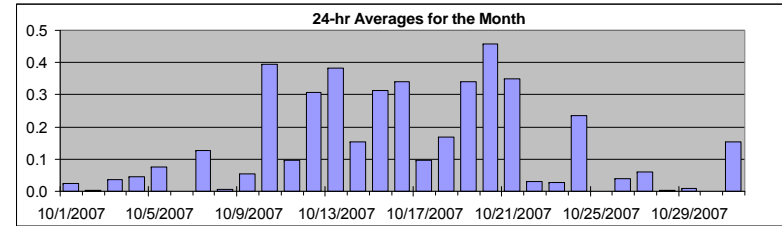
Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2007 to November 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:	2.9	ppb	24-Oct	1:00 2:00
Maximum 24-hr Average:	0.5	ppb	20-Oct	



AIC Time:	31 hrs	Operational Time:	695 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	98.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.4	0.7	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				
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00				
1-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.0	0.2	
2-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.0	0.0	
3-Oct-07	0	0	0	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.5	
4-Oct-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	0.0	0.5	
5-Oct-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0.1	0.7	
6-Oct-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	
7-Oct-07	0	A	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.1	1.4	
8-Oct-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	0.0	0.1	
9-Oct-07	0	0	0	0	0	0	0	0	0	0	0	C	C	C	0	0	1	0	0	0	0	0	0	0	0	0.1	0.6	
10-Oct-07	0	0	0	0	0	A	0	0	1	1	0	0	1	1	1	1	1	0	1	1	1	0	0	0	0	0.4	0.8	
11-Oct-07	0	0	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.2	
12-Oct-07	0	0	0	0	0	A	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0.3	1.4	
13-Oct-07	1	1	0	0	A	0	0	0	0	0	0	1	1	0	2	1	0	0	0	0	0	0	0	0	0	0.4	2.0	
14-Oct-07	0	0	0	A	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9	
15-Oct-07	0	0	A	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	1	0	0	0	0	0.3	1.2	
16-Oct-07	0	0	0	0	0	A	0	1	0	0	0	0	1	1	1	0	1	1	1	1	0	0	0	0	0	0.3	1.1	
17-Oct-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	0.5	
18-Oct-07	0	0	0	A	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.4	
19-Oct-07	0	0	0	0	0	A	0	0	0	0	0	0	1	2	2	1	0	0	0	0	0	0	0	0	0	0.3	1.7	
20-Oct-07	0	0	0	0	A	0	0	0	1	1	0	1	1	1	3	1	0	0	0	0	0	0	0	0	0	0.5	2.5	
21-Oct-07	0	0	0	A	0	0	0	0	1	0	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0.3	1.3	
22-Oct-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	0.3	
23-Oct-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	
24-Oct-07	A	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	2.9	
25-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.0	0.0	
26-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.0	0.4	
27-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	P	P	0	0	0	0	0	0	0	A	0	0	0	0.1	0.4	
28-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.0	0.0	
29-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	N	N	N	N	0.0	0.1	
30-Oct-07	N	N	N	N	N	N	N	N	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N	0.2	0.2
31-Oct-07	0	0	0	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7	
Hourly Avg	0.0	0.1	0.1	0.0	0.0	N	0.1	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1			
Hourly Max	0.6	2.9	1.5	0.5	0.1	0.5	0.5	0.8	1.4	1.2	1.3	1.2	1.4	1.7	2.5	1.1	0.6	0.8	1.2	0.8	0.8	0.7	0.4	0.5				

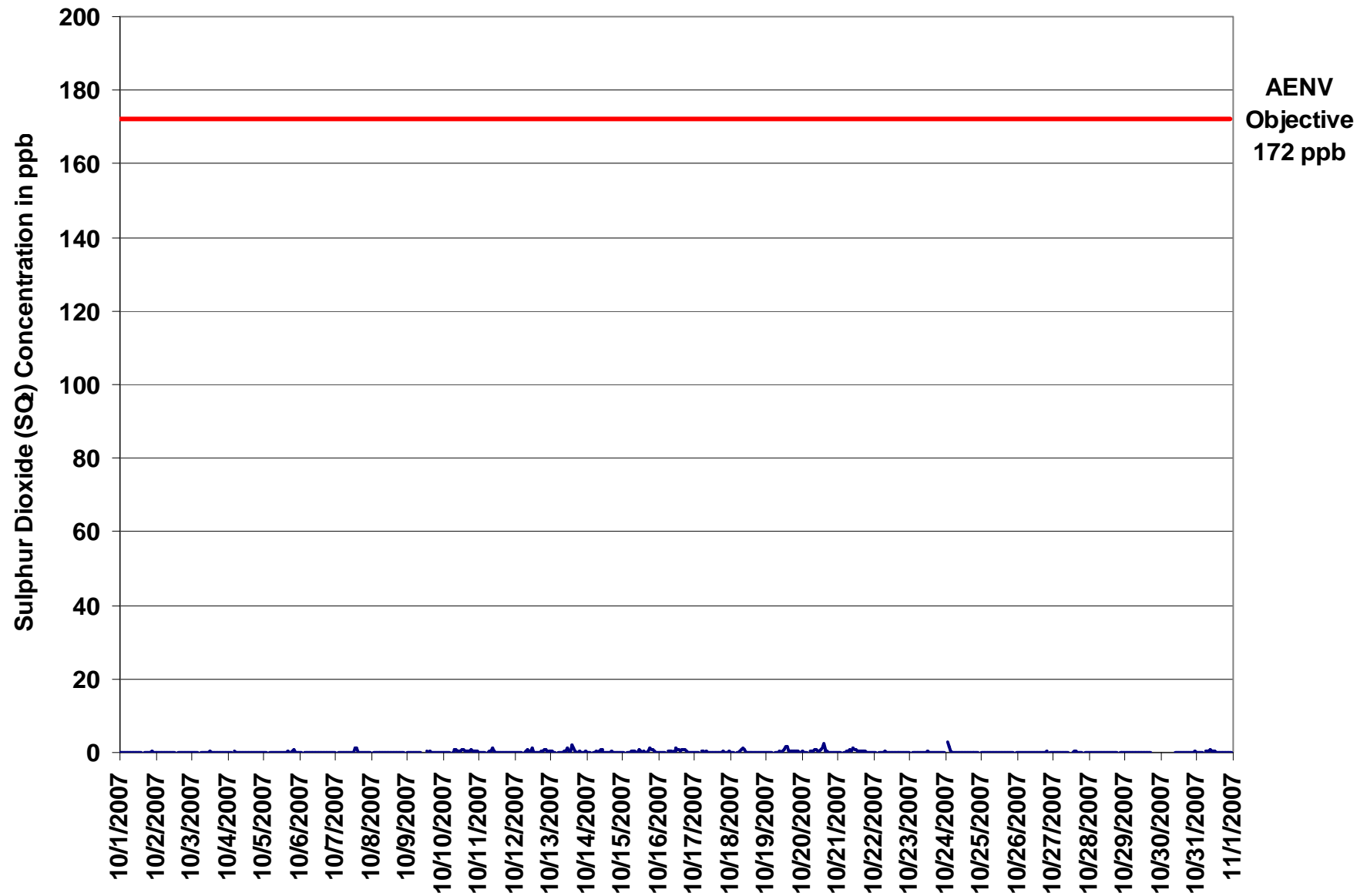


Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

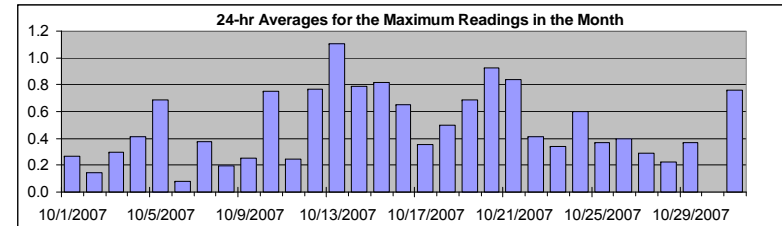
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	8.5	ppb	14-Oct	10:00 11:00
Maximum 24-hr Value:	1.1	ppb	13-Oct	



AIC Time:	31 hrs	Operational Time:	695 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	98.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.5	1.5	0.6	0.4	0.1	0.0	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-Oct-07	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	A	0	0	0	0	0	1	0	0	0.3	1.5	
2-Oct-07	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.1	0.5	
3-Oct-07	0	0	0	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0.3	1.9	
4-Oct-07	0	0	0	0	A	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0.4	1.4	
5-Oct-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	5	3	1	0	1	0.7	4.9	
6-Oct-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
7-Oct-07	0	A	0	0	0	0	0	0	0	0	0	0	1	2	2	0	0	0	0	0	0	0	0	0	0.4	2.5	
8-Oct-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	A	0.2	1.6	
9-Oct-07	0	0	0	0	0	0	0	0	1	1	C	C	C	0	0	2	0	0	0	0	0	0	0	0	0.3	1.5	
10-Oct-07	0	0	0	0	0	A	0	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	0.8	2.3	
11-Oct-07	0	0	0	0	0	A	1	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.8	
12-Oct-07	0	0	0	0	0	A	0	1	1	1	0	1	3	0	0	0	0	1	1	1	2	1	1	1	0.8	3.2	
13-Oct-07	2	1	0	0	A	0	0	0	0	1	1	4	1	1	5	2	1	1	1	1	0	1	1	2	1.1	4.6	
14-Oct-07	0	0	0	A	0	1	1	1	1	1	8	1	0	0	0	0	2	1	1	0	0	0	0	0	0.8	8.5	
15-Oct-07	1	0	A	0	0	0	1	1	1	1	1	1	1	1	1	0	1	1	3	2	2	1	0	0	0.8	2.7	
16-Oct-07	0	0	0	0	0	A	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0.7	1.4	
17-Oct-07	0	0	0	0	A	0	1	0	1	1	1	0	0	0	0	0	0	0	1	1	0	0	1	1	0.4	1.0	
18-Oct-07	1	1	0	A	0	0	1	2	2	2	1	0	0	1	0	0	0	1	1	1	0	0	0	0	0.5	2.1	
19-Oct-07	0	0	0	0	0	A	0	0	0	1	0	1	1	3	3	1	1	1	1	0	0	0	0	1	0.7	2.8	
20-Oct-07	1	0	0	0	A	0	0	0	1	1	1	1	1	4	5	1	1	0	0	0	0	0	0	0	0.9	4.9	
21-Oct-07	0	0	0	A	0	0	0	1	1	1	3	1	1	1	1	0	1	1	1	0	0	0	0	0	0.8	3.5	
22-Oct-07	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.4	1.4	
23-Oct-07	0	A	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0.3	0.8	
24-Oct-07	A	7	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.6	7.4	
25-Oct-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	0.4	0.4	
26-Oct-07	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	A	1	1	0.4	1.2	
27-Oct-07	1	1	0	0	0	0	0	0	1	1	1	P	P	1	1	1	0	0	0	1	A	0	0	0	0.3	1.0	
28-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.2	0.5	
29-Oct-07	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	A	0	N	N	N	N	0.4	1.6	
30-Oct-07	N	N	N	N	N	N	N	N	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N	0.5	0.5
31-Oct-07	0	0	0	0	0	A	0	1	1	3	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0.8	2.8	
Hourly Avg	0.4	0.5	0.2	0.2	0.2	N	0.4	0.5	0.6	0.7	0.9	0.6	0.6	0.6	0.8	0.4	0.5	0.4	0.6	0.7	0.6	0.4	0.3	0.4			
Hourly Max	1.5	7.4	1.8	0.8	0.5	0.8	1.0	1.6	2.1	2.8	8.5	3.5	3.2	3.9	4.9	2.0	2.3	1.4	2.7	4.9	3.2	1.2	0.9	1.6			

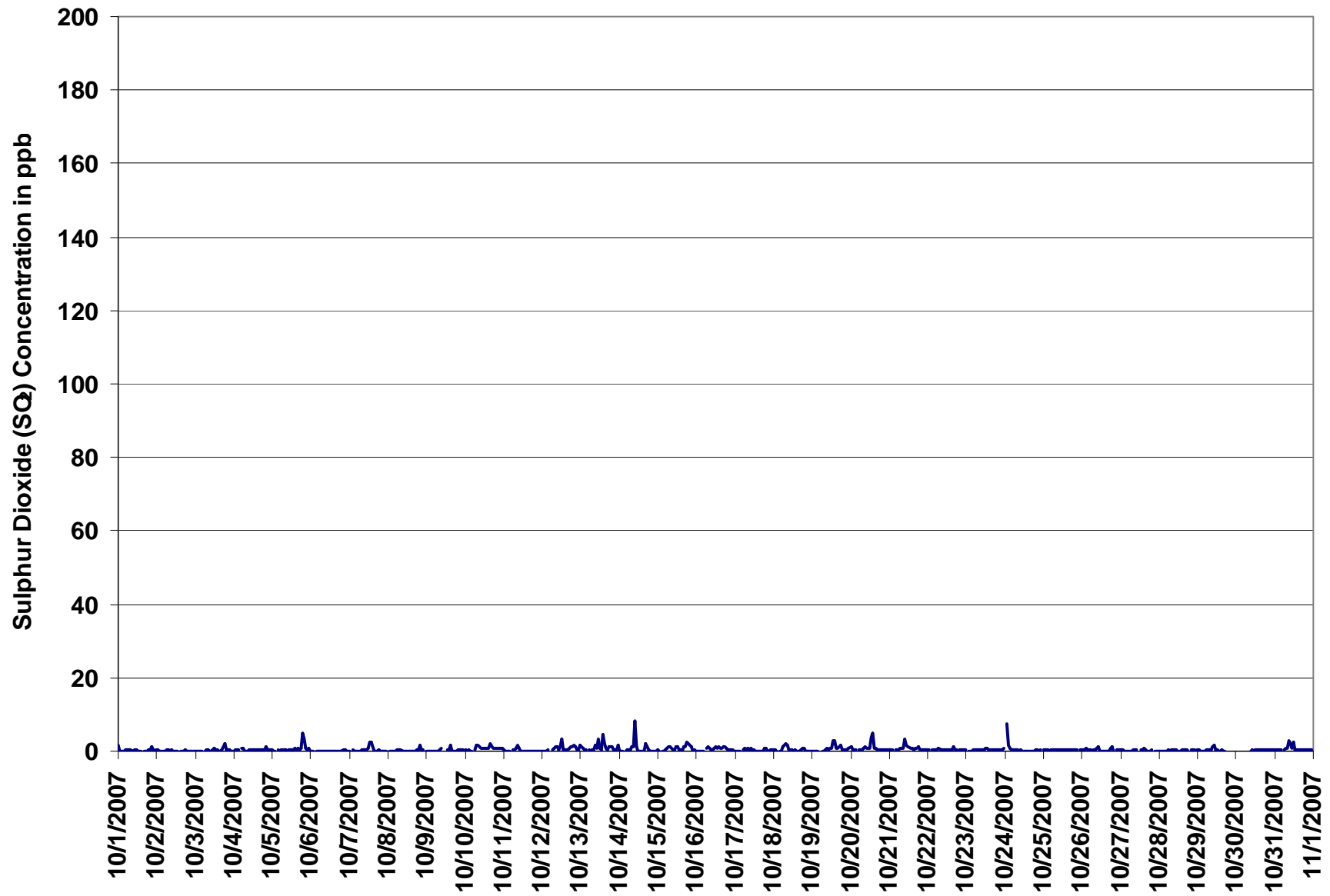
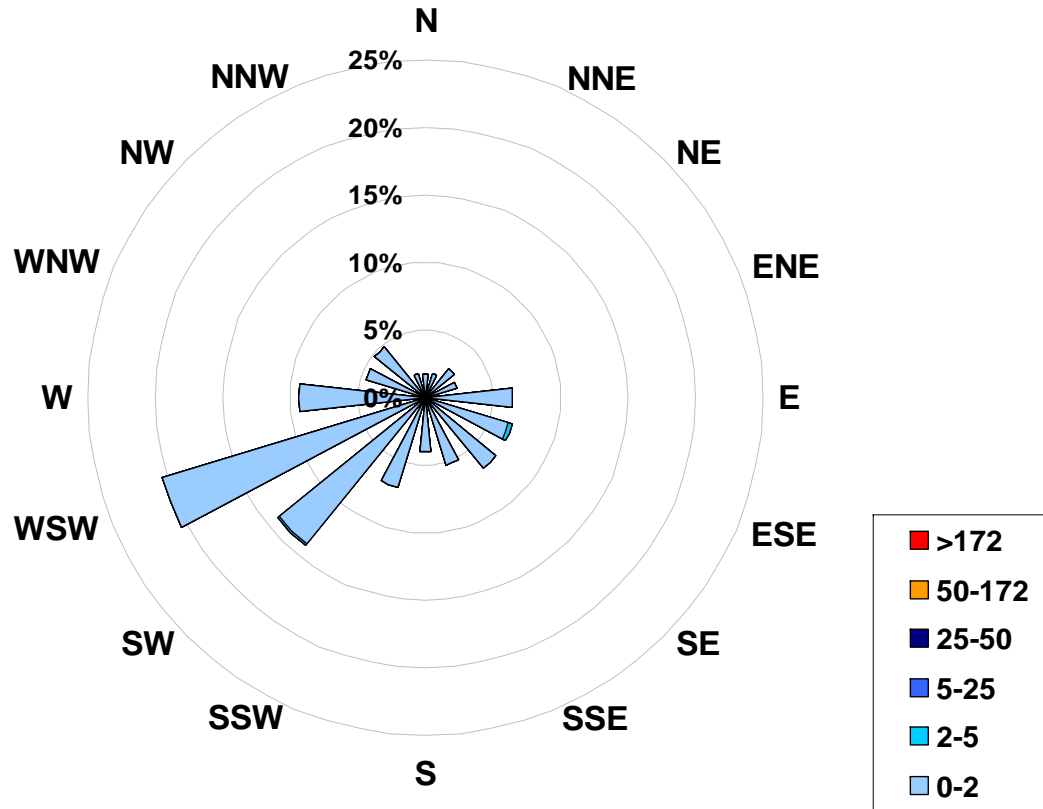


Figure 2. PASZA - Henry Pirker Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range	Frequency (hrs)		
0.0 < 2	692		
2 to 5	3		
5 to 25	0		
25 to 50	0		
50 to 172	0		
> 172	0		
Total Non-Zero Values	695		

PASZA - Henry Pirker Nitrogen Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

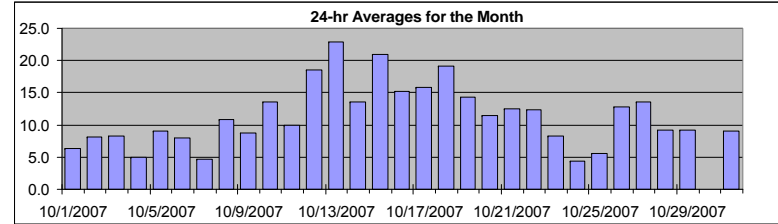
Monitoring Dates: October 1, 2007 to November 1, 2007

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:	36.7 ppb	12-Oct	18:00	19:00
Maximum 24-hr Average:	22.9 ppb	13-Oct		

AIC Time:	32 hrs	Operational Time:	693 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	98.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	32.6	27.0	16.2	8.7	4.9	2.7	1.6	11.3 ppb	8.7 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Oct-07	11	4	2	2	5	14	15	11	10	5	4	3	4	3	3	A	8	7	7	7	5	7	4	5	6.4	14.9	
2-Oct-07	5	8	9	4	4	16	22	18	17	14	10	5	3	3	A	5	5	5	8	8	7	5	5	6	8.2	21.7	
3-Oct-07	5	6	5	5	9	A	15	16	13	10	5	3	2	11	7	11	7	15	18	10	8	5	3	2	8.2	17.6	
4-Oct-07	1	1	1	2	A	6	9	10	7	6	5	5	5	4	5	5	7	6	6	6	6	5	4	4	5.0	9.6	
5-Oct-07	3	4	3	A	6	6	8	7	6	4	4	4	3	3	3	3	4	6	22	26	25	24	19	15	9.1	25.9	
6-Oct-07	10	14	A	11	10	7	9	11	8	4	3	3	2	2	2	2	3	4	7	10	27	17	12	7	8.0	27.2	
7-Oct-07	4	A	5	4	3	4	5	7	8	8	7	7	6	5	4	1	3	3	5	4	4	4	5	4.7	7.9		
8-Oct-07	A	5	4	4	4	15	27	21	14	7	3	2	2	2	2	2	3	9	21	26	23	20	22	A	10.8	26.9	
9-Oct-07	12	9	8	9	9	10	13	12	9	7	C	C	C	C	A	9	8	9	7	6	8	8	7	7	8.8	12.7	
10-Oct-07	6	6	10	15	16	A	15	18	20	16	12	10	10	12	12	10	15	16	19	18	14	12	13	16	13.6	19.9	
11-Oct-07	14	12	8	7	9	A	18	26	12	10	5	3	4	3	3	4	5	7	9	14	19	14	14	12	10.0	25.6	
12-Oct-07	10	9	10	16	23	A	24	27	25	22	12	9	5	4	4	3	6	17	37	36	37	33	30	30	18.6	36.7	
13-Oct-07	28	27	26	24	A	27	25	24	23	18	17	17	13	10	10	10	17	29	34	32	25	33	29	29	22.9	34.1	
14-Oct-07	17	13	17	A	20	25	23	15	19	20	17	9	3	3	4	5	11	12	12	12	16	14	13	13	13.5	24.5	
15-Oct-07	18	19	A	20	21	19	18	18	18	17	18	24	28	22	24	11	13	25	35	31	30	21	16	16	20.9	35.3	
16-Oct-07	12	12	11	14	13	A	22	20	20	16	11	11	11	15	14	11	14	23	26	23	15	20	8	8	15.2	26.4	
17-Oct-07	8	8	8	10	A	22	21	21	18	16	13	11	7	6	4	5	7	19	32	28	21	27	26	26	15.9	32.3	
18-Oct-07	19	22	23	A	22	24	31	24	27	28	18	20	22	9	7	7	13	29	30	21	15	9	10	8	19.1	31.1	
19-Oct-07	16	21	23	16	20	A	19	20	15	12	8	6	6	5	4	6	8	22	27	19	19	14	9	15	14.4	26.8	
20-Oct-07	18	16	17	10	A	15	15	18	21	15	7	6	6	4	4	7	7	15	16	14	12	8	5	6	11.4	20.9	
21-Oct-07	5	4	4	A	10	17	21	23	22	19	18	18	14	12	12	9	10	17	23	10	6	5	4	5	12.5	22.9	
22-Oct-07	6	7	A	11	9	17	32	32	21	14	13	10	7	7	14	14	12	9	9	9	10	8	6	6	12.4	32.3	
23-Oct-07	4	A	8	5	6	10	18	17	7	6	5	6	6	4	5	5	7	14	14	11	11	9	7	6	8.4	17.9	
24-Oct-07	A	9	7	4	8	6	3	4	4	4	3	4	5	3	3	3	5	5	5	5	3	2	2	A	4.4	9.2	
25-Oct-07	3	3	3	3	3	5	8	10	9	5	3	3	2	3	3	5	7	11	11	10	7	6	A	4	5.5	11.3	
26-Oct-07	4	3	3	2	2	4	16	27	31	16	5	4	4	5	5	7	15	19	24	25	22	A	22	31	12.8	30.9	
27-Oct-07	25	18	12	17	18	17	27	24	29	24	6	P	P	4	6	6	9	13	8	5	A	7	5	5	13.6	29.1	
28-Oct-07	4	2	3	5	5	10	11	10	14	15	9	6	5	6	5	7	11	14	12	A	24	18	13	4	9.2	24.1	
29-Oct-07	6	5	3	3	5	10	23	29	21	15	12	6	3	4	4	6	7	7	A	6	N	N	N	N	9.2	29.4	
30-Oct-07	N	N	N	N	N	N	N	N	N	13	7	5	4	3	3	4	7	8	11	8	6	6	5	4	N	13.1	
31-Oct-07	2	2	2	2	5	A	33	26	28	31	14	9	7	4	4	5	5	5	4	5	5	5	4	2	9.1	32.6	
Hourly Avg	9.8	9.5	8.6	8.6	10.2	N	18.2	18.1	16.5	13.5	9.2	7.9	6.7	6.0	6.3	6.3	8.4	12.9	16.6	14.8	14.8	12.7	11.1	10.6			
Hourly Max	27.9	27.3	25.6	23.8	23.2	26.8	32.6	32.3	30.6	30.6	18.5	23.6	27.7	21.7	24.3	14.3	17.1	29.3	36.7	36.0	36.6	33.0	30.2	30.9			

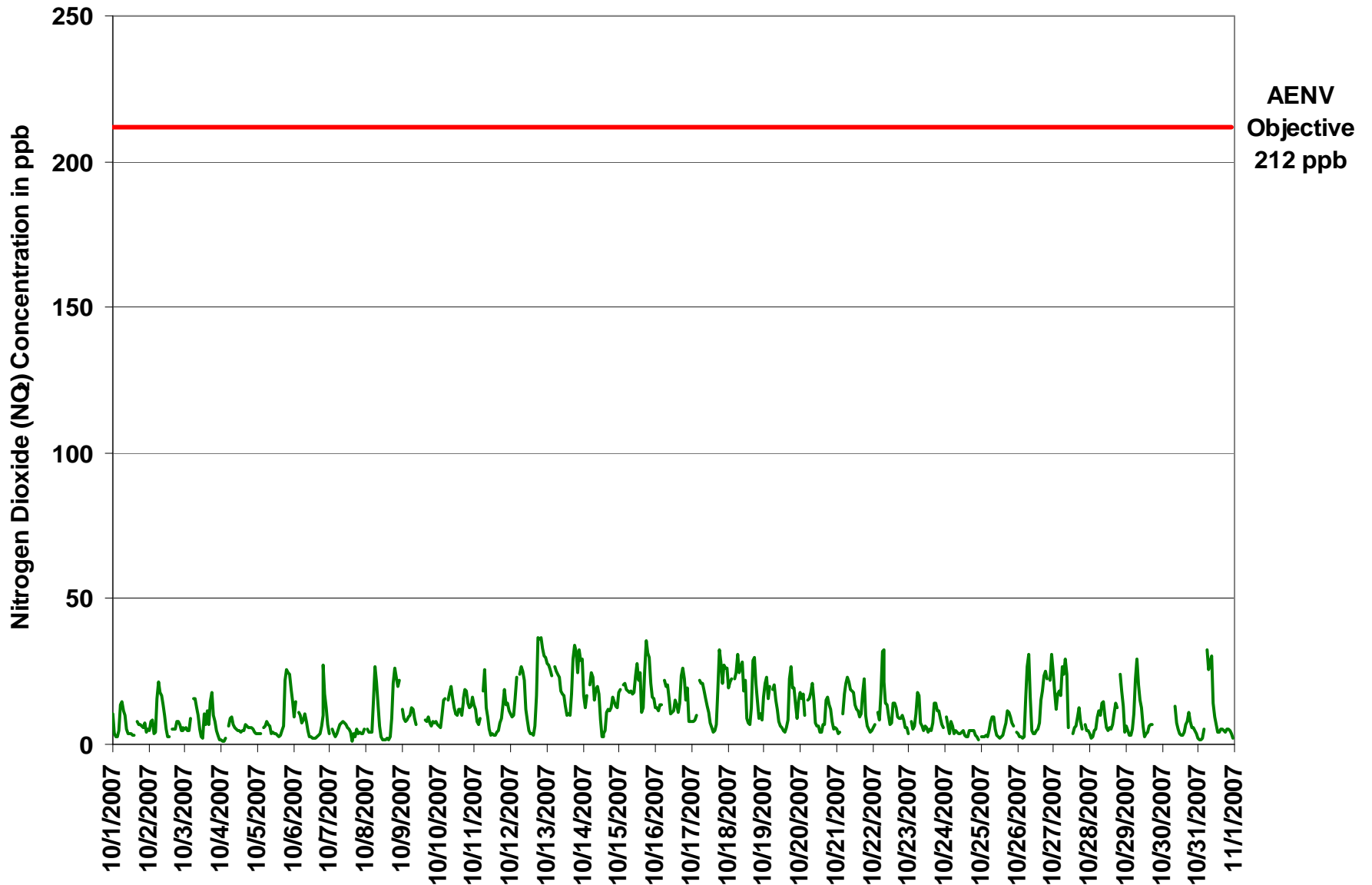


Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

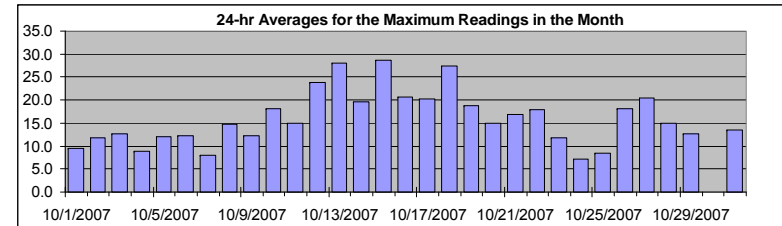
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	99.6	ppb	15-Oct	18:00 19:00
Maximum 24-hr Value:	28.6	ppb	15-Oct	



AIC Time:	32 hrs	Operational Time:	693 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	98.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	40.2	34.4	21.8	13.0	7.8	4.5	3.0	15.9 ppb	13.0 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-Oct-07	18	6	3	3	11	20	17	14	12	7	5	5	6	7	6	A	12	9	11	9	10	9	7	9	9.5	20.4	
2-Oct-07	6	10	13	5	5	24	26	26	23	20	13	9	4	4	A	8	8	7	11	11	10	6	7	13	11.8	26.2	
3-Oct-07	6	8	7	6	17	A	19	20	17	13	7	6	6	15	13	20	12	25	24	19	11	8	6	5	12.7	24.7	
4-Oct-07	4	3	3	5	A	11	13	12	12	8	11	8	10	8	11	13	10	10	9	11	11	9	7	5	8.8	12.7	
5-Oct-07	5	5	5	A	8	9	11	10	8	6	6	9	5	5	4	5	6	14	30	32	27	26	23	18	12.1	32.4	
6-Oct-07	17	19	A	17	11	11	11	15	11	6	5	4	3	4	4	4	7	8	13	21	31	29	18	10	12.2	30.6	
7-Oct-07	7	A	10	5	3	7	7	9	10	11	10	13	16	9	7	3	5	4	8	5	5	5	6	15	8.0	16.3	
8-Oct-07	A	8	6	6	6	26	32	30	24	11	5	3	3	3	3	5	5	16	28	29	26	24	26	A	14.8	32.1	
9-Oct-07	17	13	10	11	12	12	17	15	13	11	C	C	C	C	A	13	10	15	10	7	13	9	10	13	12.1	17.2	
10-Oct-07	13	10	19	18	23	A	18	28	28	21	21	13	12	15	17	15	18	18	22	20	18	13	16	20	18.1	28.3	
11-Oct-07	15	17	11	10	22	A	28	33	17	16	9	6	6	5	4	8	8	11	14	26	28	19	17	15	15.0	33.4	
12-Oct-07	12	10	12	25	28	A	26	32	32	33	16	12	9	7	7	7	12	38	40	40	40	36	34	33	23.7	40.2	
13-Oct-07	32	30	28	28	A	29	28	27	25	21	21	22	20	22	21	18	23	35	37	38	35	37	34	36	28.1	38.1	
14-Oct-07	29	16	21	A	25	30	27	20	26	27	21	14	5	6	9	10	24	19	18	21	25	25	17	14	19.6	29.8	
15-Oct-07	21	21	A	24	23	22	25	24	25	22	24	26	36	27	29	18	18	30	100	36	36	34	17	18	28.6	99.6	
16-Oct-07	16	15	14	17	18	A	24	24	26	20	17	17	17	23	19	13	21	27	29	25	25	27	28	13	20.7	29.1	
17-Oct-07	15	12	12	15	A	26	24	24	21	18	16	14	12	9	6	8	11	33	35	35	29	32	30	30	20.3	35.2	
18-Oct-07	27	25	27	A	27	28	68	39	38	39	21	23	32	19	13	13	23	43	36	25	21	13	16	15	27.4	68.2	
19-Oct-07	23	24	27	21	22	A	22	22	19	15	11	9	8	7	7	11	19	29	31	28	23	22	14	21	18.8	30.6	
20-Oct-07	22	20	21	15	A	19	18	20	23	20	10	9	10	7	5	12	12	20	19	17	16	12	7	7	15.0	23.3	
21-Oct-07	7	8	6	A	16	22	25	30	26	23	21	20	20	19	14	13	12	27	32	17	7	8	6	9	16.9	32.2	
22-Oct-07	9	11	A	18	17	38	41	36	28	18	19	14	15	13	21	18	17	13	11	11	13	13	7	8	17.9	40.8	
23-Oct-07	7	A	9	8	12	15	24	29	12	11	7	9	9	9	7	7	11	17	17	12	13	10	9	6	11.9	28.8	
24-Oct-07	A	13	8	9	13	9	10	7	6	6	5	7	8	6	4	5	9	7	7	7	5	4	3	A	7.2	13.2	
25-Oct-07	4	3	3	4	3	7	11	11	12	9	4	6	4	5	6	8	17	17	14	16	11	9	A	7	8.5	17.4	
26-Oct-07	7	7	4	3	4	9	24	32	35	29	7	6	7	8	9	10	24	24	30	33	29	A	39	35	18.1	38.7	
27-Oct-07	37	26	16	25	22	31	31	53	34	33	12	P	P	6	9	10	20	23	11	8	A	8	7	7	20.5	53.1	
28-Oct-07	7	3	5	6	8	15	22	19	30	20	18	14	9	11	9	10	15	19	16	A	32	27	25	6	15.1	32.2	
29-Oct-07	7	7	4	5	7	19	29	32	29	18	16	10	5	6	6	9	11	9	A	9	N	N	N	N	12.7	32.1	
30-Oct-07	N	N	N	N	N	N	N	N	N	19	11	8	6	6	5	6	10	10	19	11	9	9	6	6	6	N	18.9
31-Oct-07	4	2	2	3	8	A	45	40	37	38	29	16	10	8	6	7	8	8	6	7	8	8	5	3	13.5	45.5	
Hourly Avg	14.2	12.7	11.4	12.1	14.4	N	24.1	24.5	22.0	18.4	13.4	11.5	10.9	10.0	9.8	10.2	13.5	18.8	22.9	19.6	19.6	17.0	15.5	14.2			
Hourly Max	36.7	30.3	27.9	28.3	28.2	38.4	68.2	53.1	37.5	38.9	29.1	26.3	36.2	27.3	29.3	20.2	24.2	43.3	99.6	40.2	40.2	36.7	38.7	35.5			

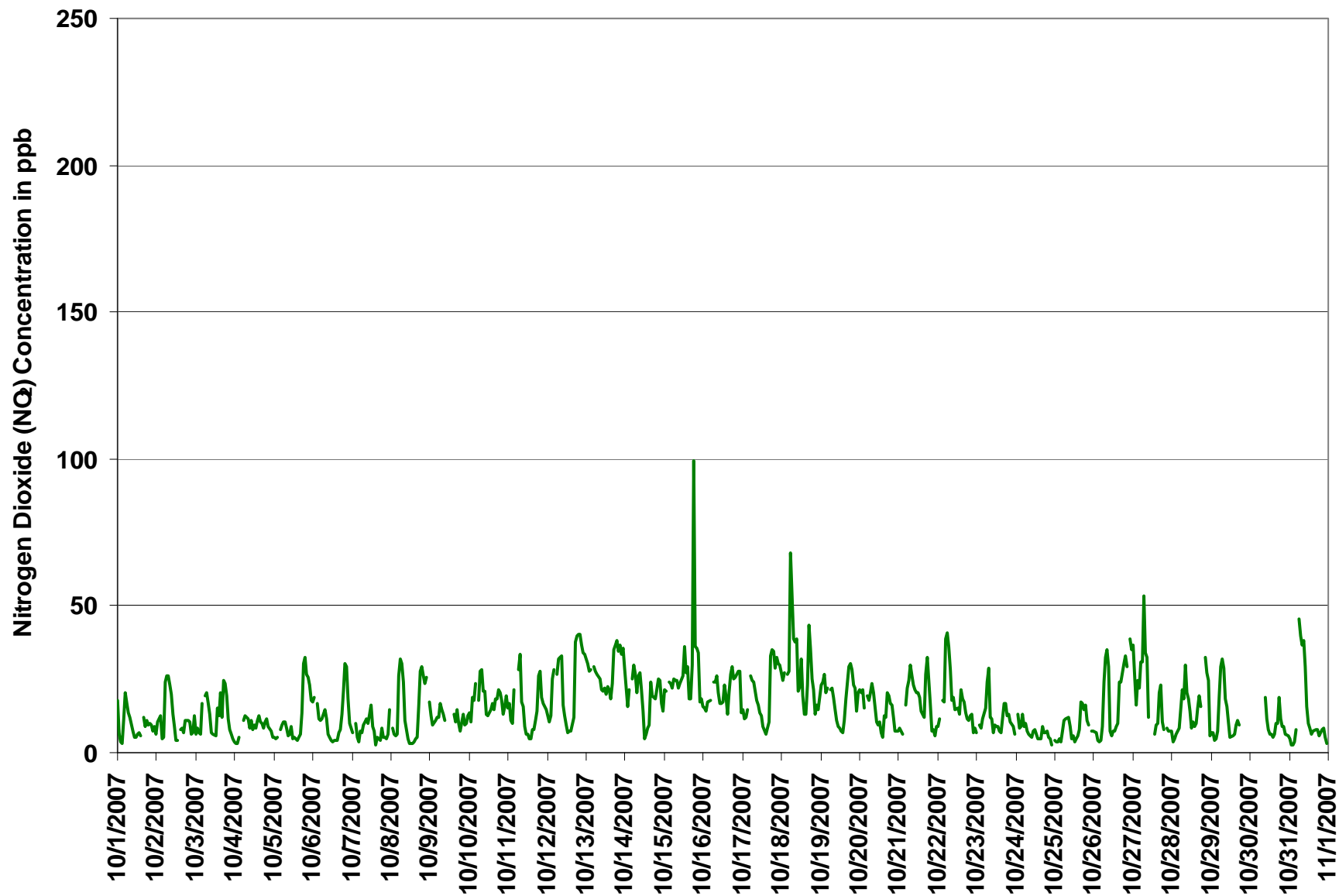
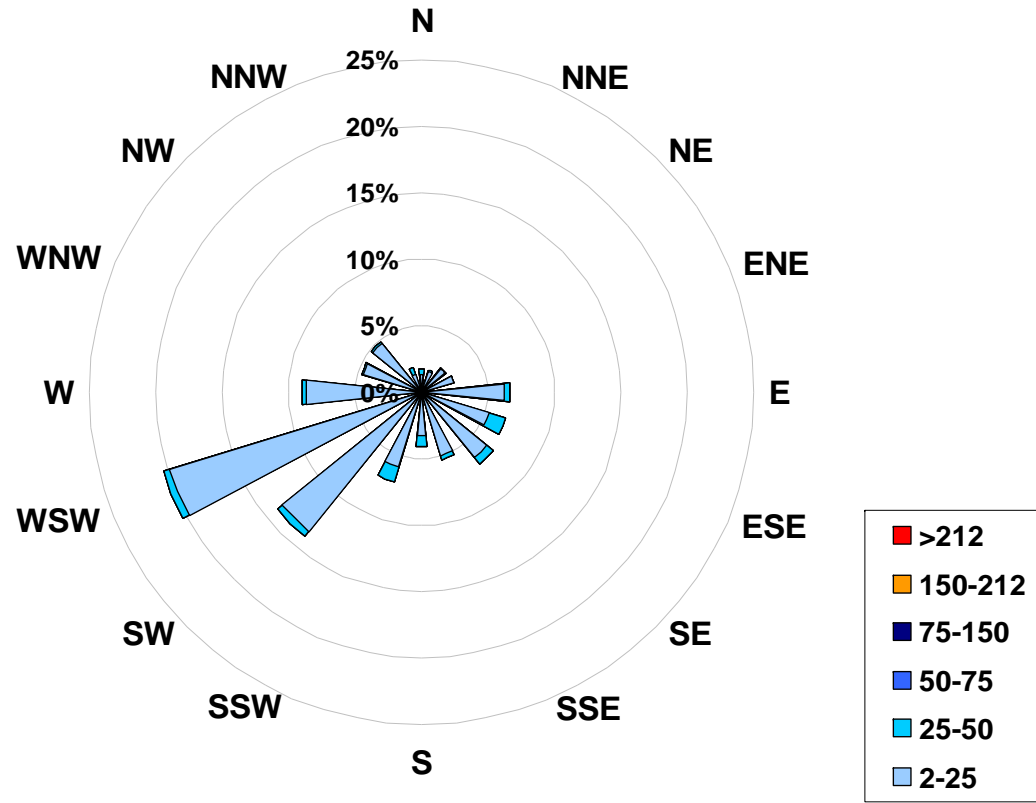


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	<	25	637
25	to	50	34
50	to	75	15
75	to	150	6
150	to	212	1
	>	212	0
Total Non-Zero Values			693

PASZA - Henry Pirker Nitric Oxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Nitric Oxide (NO)

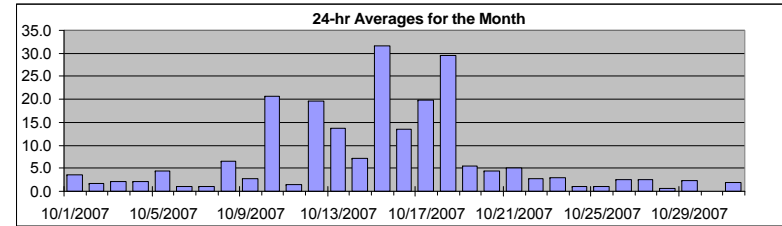
Monitoring Dates: October 1, 2007 to November 1, 2007

Guideline Limit:

1-hr	na	ppb	24-hr	na	ppb
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 Summary

Maximum 1-hr Average:	163.8	ppb	18-Oct	8:00 9:00
Maximum 24-hr Average:	31.7	ppb	15-Oct	



AIC Time:	32 hrs	Operational Time:	693 hrs					
Calibration Time:	4 hrs	AMD Operational Uptime:	98.0%					
Percentile 99	95	75	50	25	5	1	Average	Median
75.2	36.4	5.1	1.6	0.6	0.0	0.0	7.1 ppb	1.6 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			
1-Oct-07	2	0	0	0	0	6	15	14	20	8	4	3	2	1	2	A	2	1	1	0	0	0	0	0	3.6	20.0	
2-Oct-07	0	0	0	0	0	1	4	9	5	5	4	3	1	1	A	2	2	1	1	1	1	0	0	0	1.8	8.5	
3-Oct-07	0	0	0	0	1	A	5	6	4	4	2	1	1	5	2	4	2	3	2	1	1	1	1	2.1	6.5		
4-Oct-07	1	1	0	1	A	1	2	3	3	2	3	3	3	3	4	3	4	3	2	2	2	2	1	1	2.2	3.7	
5-Oct-07	1	1	1	A	1	2	4	3	4	3	7	6	4	2	1	1	1	1	7	19	24	6	3	1	4.5	23.6	
6-Oct-07	1	1	A	0	0	0	0	2	3	2	1	1	1	1	1	1	1	0	0	0	4	2	1	0	1.0	4.1	
7-Oct-07	0	A	0	0	0	1	1	1	2	3	4	4	3	3	1	0	0	0	0	0	0	0	0	0	1.1	4.1	
8-Oct-07	A	0	0	0	0	1	15	8	4	2	1	0	0	0	0	0	0	0	3	22	26	27	32	A	6.5	31.5	
9-Oct-07	15	8	4	6	2	1	2	3	3	2	C	C	C	C	A	2	1	1	1	0	1	0	0	1	2.8	15.4	
10-Oct-07	1	0	4	5	9	A	22	59	79	69	17	3	2	4	5	4	8	6	25	46	37	32	23	14	20.6	78.6	
11-Oct-07	1	0	0	0	1	A	3	10	3	4	2	1	2	1	1	1	1	1	1	1	1	0	0	0	1.6	10.3	
12-Oct-07	0	0	0	4	12	A	20	51	69	38	7	5	2	1	1	1	1	2	21	35	54	68	32	30	19.7	69.3	
13-Oct-07	42	41	28	14	A	15	9	12	13	7	9	12	8	2	3	2	2	6	10	18	5	22	11	22	13.6	42.4	
14-Oct-07	1	0	0	A	1	9	19	33	50	19	12	4	1	1	1	1	2	1	1	2	2	3	2	1	7.2	50.4	
15-Oct-07	3	7	A	11	8	23	80	97	72	43	26	41	34	15	15	3	2	4	58	52	74	46	14	2	31.7	96.8	
16-Oct-07	1	3	5	8	7	A	36	75	60	21	6	5	5	6	7	4	4	13	36	6	2	1	1	0	13.5	74.9	
17-Oct-07	0	0	0	0	A	29	54	39	41	30	27	10	4	3	1	1	1	4	41	47	5	25	35	57	19.8	56.7	
18-Oct-07	23	28	19	A	7	33	80	117	164	94	24	26	19	4	2	1	2	19	13	3	1	1	1	0	29.6	163.8	
19-Oct-07	1	2	9	2	7	A	10	21	12	13	7	4	4	2	2	2	1	4	8	4	4	3	1	1	5.4	20.8	
20-Oct-07	2	3	6	1	A	2	5	18	26	16	6	3	3	2	2	1	1	2	1	1	1	1	1	0	4.5	25.7	
21-Oct-07	0	0	0	A	0	1	8	17	22	15	17	15	6	3	3	2	1	1	5	0	0	0	0	0	5.1	22.3	
22-Oct-07	0	0	A	0	0	2	14	18	4	3	2	2	2	2	4	3	2	1	1	1	1	1	0	0	2.7	18.5	
23-Oct-07	0	A	0	0	0	0	2	5	1	1	2	3	2	1	2	2	2	7	8	5	8	7	4	2	2.9	8.4	
24-Oct-07	A	1	1	0	3	3	1	1	1	1	1	1	2	1	1	1	1	1	1	0	0	0	0	A	1.0	2.9	
25-Oct-07	0	0	0	0	0	1	1	2	2	2	1	1	1	1	1	2	2	1	1	1	1	1	A	0	1.0	2.2	
26-Oct-07	0	0	0	0	0	0	2	6	16	7	2	1	1	2	2	2	2	2	2	2	1	A	3	6	2.5	16.3	
27-Oct-07	6	1	0	1	0	3	9	4	16	10	1	P	P	1	1	1	0	1	0	0	A	0	0	0	2.5	15.5	
28-Oct-07	0	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	0	0	0	A	3	0	0	0	0	0.6	2.7
29-Oct-07	0	0	0	0	0	0	3	12	5	6	8	4	1	1	1	1	1	1	A	0	N	N	N	N	2.3	11.7	
30-Oct-07	N	N	N	N	N	N	N	N	N	4	3	2	1	1	1	1	1	1	1	1	0	0	0	0	0	N	4.2
31-Oct-07	0	0	0	0	0	A	7	5	5	12	2	3	2	1	1	1	1	1	0	0	0	0	0	0	1.9	11.9	
Hourly Avg	3.6	3.5	2.9	2.1	2.3	N	14.4	21.7	23.7	14.4	7.0	5.8	4.1	2.5	2.3	1.7	1.8	2.9	8.4	9.0	9.0	8.7	5.7	5.0			
Hourly Max	42.4	40.8	27.6	13.6	11.9	32.5	80.4	116.8	163.8	93.6	26.8	40.8	33.9	14.7	14.6	4.2	7.9	19.0	58.3	52.1	74.2	68.0	35.3	56.7			

PASZA - Henry Pirker Oxides of Nitrogen Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

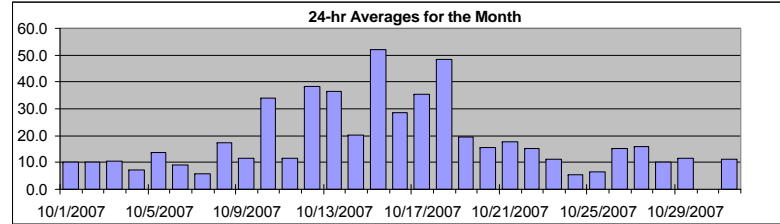
Monitoring Dates: October 1, 2007 to November 1, 2007

Guideline Limit: Alberta Environment:

1-hr	na	ppb	24-hr	na	ppb
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 Summary

Maximum 1-hr Average:	189.7	ppb	18-Oct	8:00 9:00
Maximum 24-hr Average:	52.1	ppb	15-Oct	



AIC Time:	32 hrs	Operational Time:	693 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	98.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	98.6	60.2	21.5	10.5	5.8	3.1	1.9	18.4 ppb	10.5 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			
1-Oct-07	13	4	3	3	5	20	30	25	30	13	8	6	6	5	5	A	10	8	8	7	6	8	4	5	10.0	30.3	
2-Oct-07	5	8	9	4	4	17	26	26	22	18	13	8	4	4	A	7	7	6	9	9	8	5	5	6	10.0	26.0	
3-Oct-07	5	6	5	5	9	A	20	22	17	14	7	4	3	15	9	15	9	18	20	11	9	6	4	3	10.3	22.2	
4-Oct-07	3	2	2	3	A	8	11	12	9	8	8	8	8	7	9	8	11	9	8	8	8	7	6	4	7.2	12.4	
5-Oct-07	4	4	4	A	6	8	12	10	10	7	11	10	8	6	4	4	6	7	30	45	48	30	22	16	13.6	48.2	
6-Oct-07	10	15	A	11	10	7	9	12	11	6	4	4	3	3	3	3	4	4	7	10	31	19	13	7	9.1	31.3	
7-Oct-07	4	A	5	4	3	4	6	8	9	11	11	11	9	8	5	2	4	3	5	4	4	4	4	6	5.8	11.2	
8-Oct-07	A	5	4	4	4	16	41	30	18	9	4	2	2	2	2	2	3	9	24	48	49	47	54	A	17.3	53.6	
9-Oct-07	27	16	12	14	11	11	15	15	12	9	C	C	C	C	A	11	9	10	8	7	8	8	8	7	11.5	27.5	
10-Oct-07	7	6	14	20	25	A	37	77	98	85	29	13	12	15	17	14	22	22	44	64	51	44	35	30	34.0	98.4	
11-Oct-07	14	13	8	7	9	A	21	36	16	13	7	5	5	4	4	6	6	8	9	14	20	14	14	12	11.6	36.0	
12-Oct-07	11	9	10	20	35	A	44	77	94	60	19	13	6	5	5	4	7	19	58	71	91	101	62	59	38.2	100.7	
13-Oct-07	70	68	53	37	A	41	34	37	36	25	26	28	21	12	13	12	19	35	44	50	29	55	39	51	36.3	70.1	
14-Oct-07	18	13	17	A	21	33	41	47	69	38	29	12	3	3	4	5	12	13	12	14	18	17	14	13	20.3	68.8	
15-Oct-07	20	25	A	31	28	42	98	114	90	59	43	64	61	36	39	14	14	29	93	83	103	67	29	18	52.1	113.8	
16-Oct-07	13	15	16	21	20	A	58	94	79	36	16	16	16	21	21	15	18	36	62	29	16	21	9	8	28.4	94.2	
17-Oct-07	8	8	8	10	A	50	75	60	59	46	40	22	11	8	5	6	8	23	73	75	26	52	61	83	35.6	82.7	
18-Oct-07	42	50	42	A	30	57	111	141	190	122	43	46	41	13	9	8	15	47	43	24	16	10	11	9	48.6	189.7	
19-Oct-07	17	23	31	18	26	A	28	41	27	25	14	10	9	7	6	7	10	26	34	23	23	16	9	16	19.5	40.8	
20-Oct-07	19	18	23	10	A	16	20	35	46	31	13	9	9	6	6	8	8	17	17	14	13	9	6	6	15.6	46.2	
21-Oct-07	6	4	4	A	11	19	29	40	44	34	36	33	20	15	14	11	12	18	28	10	6	6	4	5	17.7	43.9	
22-Oct-07	6	7	A	11	9	19	46	51	26	17	16	12	8	9	18	18	15	11	10	9	11	9	6	6	15.1	50.8	
23-Oct-07	4	A	8	5	7	11	20	22	9	8	7	9	8	6	7	6	10	21	22	16	20	16	11	8	11.3	22.4	
24-Oct-07	A	11	7	4	11	9	4	5	5	5	4	5	6	5	4	4	6	6	5	5	4	3	2	A	5.4	10.8	
25-Oct-07	3	3	3	3	3	6	9	11	11	7	5	4	3	4	5	7	9	12	12	10	8	7	A	4	6.5	12.5	
26-Oct-07	4	3	3	2	3	4	17	32	47	22	6	5	5	6	7	9	17	20	25	27	23	A	25	37	15.2	46.8	
27-Oct-07	31	18	12	18	19	20	36	28	45	34	7	P	P	4	6	7	10	13	8	6	A	7	5	5	16.1	44.5	
28-Oct-07	4	2	3	5	5	10	12	10	17	17	11	7	6	7	6	7	11	15	13	A	27	19	13	4	10.0	26.9	
29-Oct-07	6	5	3	3	5	10	26	41	26	21	21	10	4	5	6	7	8	7	A	7	N	N	N	N	11.6	41.1	
30-Oct-07	N	N	N	N	N	N	N	N	N	17	10	7	5	5	4	5	8	9	12	9	6	6	5	4	N	17.4	
31-Oct-07	2	2	2	2	5	A	40	31	33	43	16	12	8	6	6	6	6	5	4	5	6	5	4	3	11.0	42.5	
Hourly Avg	13.4	13.0	11.5	10.6	12.5	N	32.5	39.7	40.1	27.8	16.2	13.6	10.7	8.3	8.5	7.9	10.1	15.7	24.9	23.8	23.7	21.3	16.7	15.5			
Hourly Max	70.1	68.0	53.0	37.2	35.2	56.9	111.3	140.8	189.7	121.8	43.1	63.9	61.1	36.0	38.5	17.5	22.4	47.5	93.1	82.8	103.2	100.7	62.2	82.7			

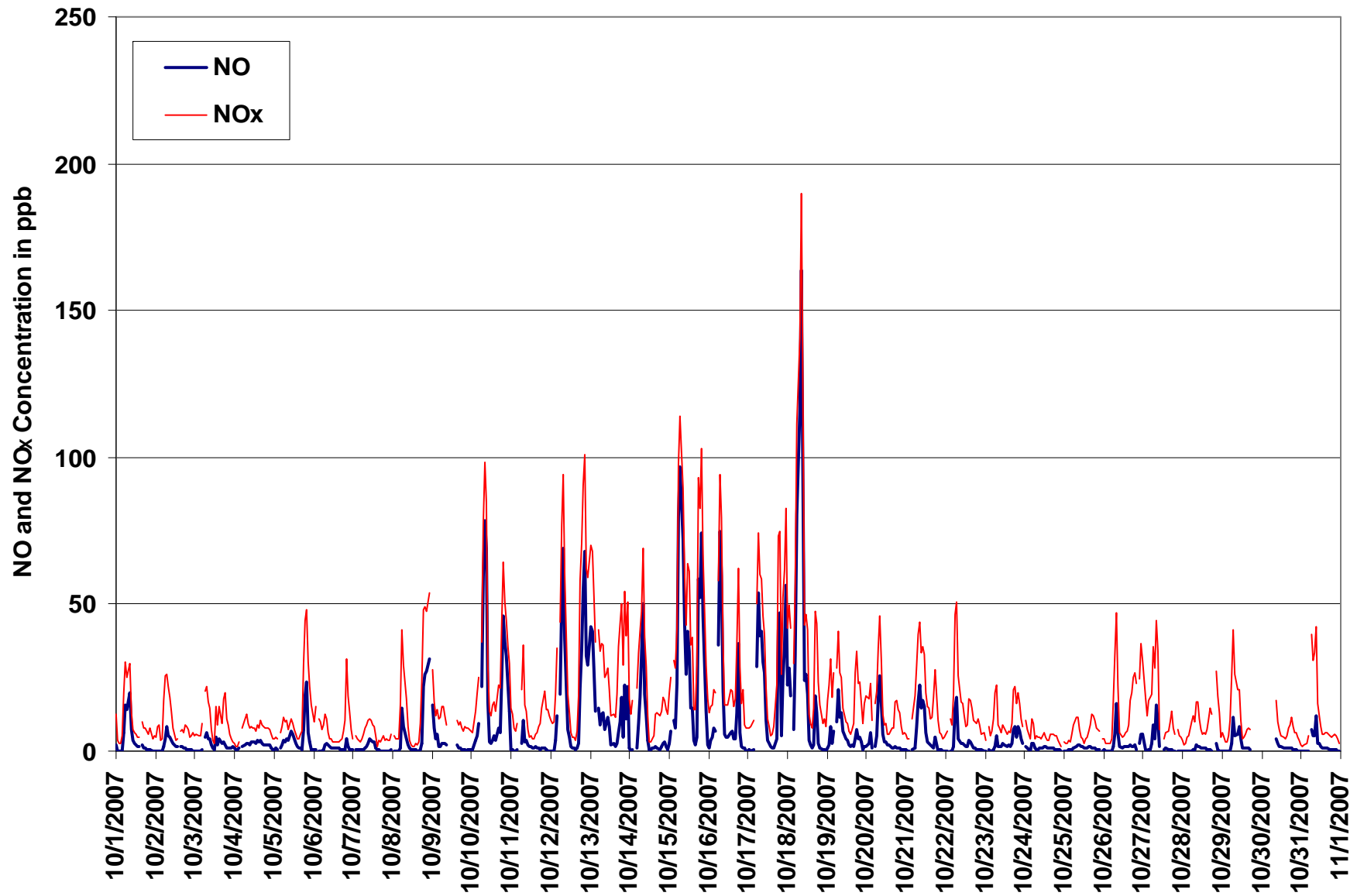


Figure 5. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

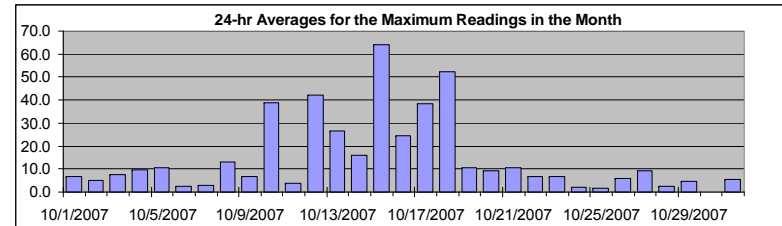
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	222.9	ppb	15-Oct	18:00 19:00
Maximum 24-hr Value:	64.0	ppb	15-Oct	



AIC Time:	32 hrs	Operational Time:	693 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	98.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	158.8	61.2	14.4	4.5	1.5	0.5	0.0	14.8 ppb	4.5 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Oct-07	7	0	1	0	0	16	29	22	31	14	6	5	5	3	4	A	4	1	1	1	1	1	0	0	6.7	30.6	
2-Oct-07	0	1	0	0	0	4	12	44	12	9	5	5	2	2	A	2	3	1	1	1	1	1	0	1	4.9	44.2	
3-Oct-07	0	0	2	0	5	A	34	15	7	8	4	2	2	10	5	9	7	12	10	3	3	10	9	9	7.4	34.4	
4-Oct-07	7	6	3	15	A	6	7	5	11	6	17	8	11	8	14	22	8	12	12	12	14	9	8	2	9.7	22.1	
5-Oct-07	2	3	2	A	2	5	9	10	8	6	11	20	8	5	2	2	2	1	31	38	47	14	14	2	10.6	47.3	
6-Oct-07	5	2	A	0	0	0	0	5	4	3	3	2	2	2	2	2	2	1	2	2	8	9	4	1	2.7	8.8	
7-Oct-07	1	A	2	1	1	3	2	3	3	5	6	9	13	7	2	1	1	0	0	0	0	0	0	6	3.0	12.8	
8-Oct-07	A	0	0	0	0	9	31	26	15	3	2	1	1	1	1	1	1	2	11	44	42	57	42	A	13.1	56.6	
9-Oct-07	33	18	7	9	6	3	7	4	5	6	C	C	C	C	A	5	3	2	2	1	1	0	2	18	6.9	32.5	
10-Oct-07	15	8	13	10	25	A	42	114	119	117	83	5	5	7	13	10	23	9	51	59	50	58	31	26	38.9	118.9	
11-Oct-07	3	3	0	0	2	A	10	24	5	7	3	3	3	2	2	3	2	2	1	5	3	0	0	0	3.8	24.5	
12-Oct-07	0	0	1	24	37	A	38	91	97	97	13	8	4	2	2	4	2	21	50	58	159	129	65	61	42.0	158.6	
13-Oct-07	74	54	43	29	A	21	15	19	19	14	13	23	18	8	8	4	5	10	25	51	14	62	29	57	26.8	74.3	
14-Oct-07	5	0	2	A	11	17	42	54	70	65	20	7	1	4	3	5	8	2	3	7	9	14	13	5	16.1	69.9	
15-Oct-07	6	15	A	24	27	65	130	161	125	52	44	52	63	22	24	8	5	8	223	83	178	124	24	7	64.0	222.9	
16-Oct-07	3	18	13	26	21	A	56	102	74	38	11	14	10	11	10	8	10	30	55	25	9	8	9	1	24.4	102.0	
17-Oct-07	0	1	0	4	A	97	109	58	52	46	47	15	9	5	3	3	3	32	92	118	22	46	52	64	38.2	117.7	
18-Oct-07	62	44	36	A	23	50	169	175	201	163	35	34	38	14	10	8	15	61	36	7	7	6	2	1	52.2	201.5	
19-Oct-07	5	5	17	7	18	A	27	26	17	17	12	7	6	4	3	5	4	9	14	11	10	8	2	9	10.7	26.7	
20-Oct-07	5	12	20	4	A	3	18	31	44	32	10	6	6	4	3	3	2	3	1	1	2	2	1	1	9.4	44.4	
21-Oct-07	1	1	0	A	3	3	23	41	45	26	20	25	14	7	5	3	3	2	18	0	1	0	1	0	10.7	45.3	
22-Oct-07	0	0	A	1	2	26	35	36	10	4	5	4	4	4	8	5	5	2	2	1	1	2	0	0	6.9	36.2	
23-Oct-07	1	A	1	1	0	1	7	15	4	3	5	5	4	7	4	3	5	18	20	11	16	11	12	4	7.0	20.2	
24-Oct-07	A	3	3	1	6	6	2	1	1	1	1	2	3	2	2	2	2	1	1	1	1	1	1	A	2.1	6.3	
25-Oct-07	0	1	1	1	1	1	2	2	4	3	2	3	2	3	2	3	4	2	1	2	1	1	A	0	1.9	4.5	
26-Oct-07	1	1	0	0	1	1	4	13	27	17	3	2	3	3	3	3	4	2	4	6	2	A	15	18	5.9	27.3	
27-Oct-07	20	2	1	3	2	29	19	43	38	21	3	P	P	1	1	1	1	2	0	0	A	1	1	0	9.1	42.6	
28-Oct-07	0	0	0	0	0	1	2	2	10	4	4	4	2	2	2	1	1	1	0	A	17	1	1	0	2.5	17.4	
29-Oct-07	0	0	0	0	0	0	9	18	18	11	13	7	3	2	2	2	1	1	A	1	N	N	N	N	4.8	18.3	
30-Oct-07	N	N	N	N	N	N	N	N	N	7	4	3	2	2	2	2	2	1	2	1	1	1	1	0	N	6.7	
31-Oct-07	0	0	1	0	0	A	32	18	16	22	11	6	3	2	2	2	1	1	1	1	1	1	1	1	1	5.4	32.4
Hourly Avg	9.3	7.2	6.3	6.3	7.5	N	30.9	39.4	36.5	26.7	14.0	9.9	8.6	5.3	5.0	4.5	4.6	8.3	22.5	18.4	21.5	19.8	11.8	10.6			
Hourly Max	74.3	54.1	43.3	29.0	36.7	96.7	169.1	175.3	201.5	163.0	83.2	52.3	62.7	22.3	23.6	22.1	23.4	60.6	222.9	117.7	177.7	129.2	64.8	64.0			

Station: Henry Pirker
 Station Owner: PASZA

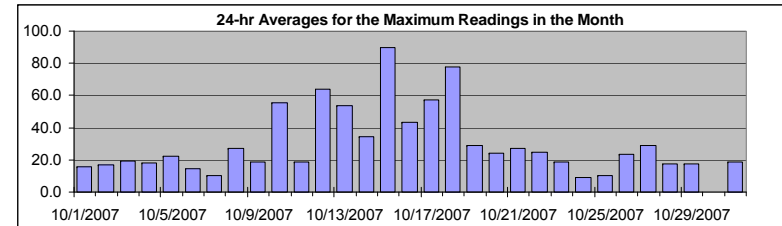
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	321.3	ppb	15-Oct	18:00 19:00
Maximum 24-hr Value:	90.0	ppb	15-Oct	



AIC Time:	32 hrs	Operational Time:	693 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	98.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	183.2	91.7	35.9	18.0	10.2	5.8	3.7	30.0 ppb	18.0 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-Oct-07	25	6	4	3	12	33	45	36	42	21	11	10	12	10	10	A	16	10	13	10	11	10	7	9	15.9	44.8	
2-Oct-07	6	11	13	5	6	28	38	70	35	28	18	14	7	7	A	10	12	8	12	12	7	7	14	14	16.6	70.1	
3-Oct-07	7	9	8	6	21	A	49	35	24	20	11	9	7	24	16	29	19	37	33	20	14	17	14	14	19.3	48.9	
4-Oct-07	11	9	6	19	A	17	18	17	22	14	28	15	20	16	24	35	17	20	20	21	24	18	14	6	18.0	34.8	
5-Oct-07	7	7	8	A	9	14	19	20	16	12	16	29	11	10	6	7	9	15	60	67	72	40	34	20	22.1	72.4	
6-Oct-07	19	21	A	17	12	11	12	19	15	9	8	6	6	6	6	6	8	8	16	23	38	38	22	10	14.6	38.3	
7-Oct-07	7	A	10	7	4	10	8	12	13	16	16	21	28	16	8	4	5	4	8	5	6	5	6	18	10.5	28.1	
8-Oct-07	A	9	7	6	7	33	61	53	38	12	7	4	4	4	4	6	6	17	38	71	66	78	66	A	27.1	77.8	
9-Oct-07	50	30	16	19	16	15	21	17	18	17	C	C	C	C	A	18	12	16	11	8	14	10	11	30	18.4	49.8	
10-Oct-07	26	18	32	27	48	A	59	140	139	136	102	18	17	21	30	24	41	27	71	79	67	68	43	40	55.4	140.0	
11-Oct-07	18	18	11	10	24	A	38	58	23	23	12	9	9	7	6	11	10	13	15	31	31	19	17	15	18.7	57.9	
12-Oct-07	12	11	13	49	63	A	63	123	127	128	30	21	14	9	10	11	14	59	88	94	195	157	93	91	64.1	195.4	
13-Oct-07	103	83	68	57	A	47	42	45	43	36	34	45	37	30	29	21	27	45	60	88	48	97	59	91	53.7	102.7	
14-Oct-07	34	16	22	A	36	43	63	72	95	90	41	21	6	10	12	15	32	21	19	28	33	34	28	19	34.3	94.6	
15-Oct-07	26	31	A	38	48	84	149	182	147	72	65	77	93	49	50	25	23	37	321	117	211	158	40	25	90.0	321.3	
16-Oct-07	17	29	24	34	33	A	75	125	99	57	28	28	27	32	28	20	29	56	84	48	34	35	36	14	43.1	124.9	
17-Oct-07	15	12	12	19	A	117	132	80	70	60	61	28	21	14	10	11	13	65	124	151	50	71	79	93	56.9	151.0	
18-Oct-07	88	67	60	A	50	74	235	200	232	201	56	57	70	34	23	21	37	104	72	30	27	19	18	15	77.8	235.0	
19-Oct-07	26	28	42	25	40	A	48	47	36	29	23	15	15	11	10	15	22	37	44	39	32	29	16	29	28.7	48.0	
20-Oct-07	27	32	38	19	A	22	35	51	66	52	20	15	16	11	8	15	13	23	20	18	19	13	8	8	23.8	66.0	
21-Oct-07	7	9	7	A	18	25	48	67	72	49	42	45	35	26	19	16	14	29	51	17	7	8	6	9	27.2	71.5	
22-Oct-07	9	11	A	18	19	65	76	72	38	22	24	18	20	17	29	23	23	16	14	11	14	15	7	8	24.8	76.0	
23-Oct-07	7	A	10	9	12	16	31	44	15	15	12	13	13	16	11	10	17	35	36	23	30	21	21	11	18.6	44.3	
24-Oct-07	A	16	11	10	16	14	12	9	8	7	6	9	11	9	6	6	10	8	7	8	6	5	3	A	9.0	15.9	
25-Oct-07	4	4	4	5	4	9	13	14	15	12	6	9	6	8	7	11	22	18	16	18	12	10	A	8	10.3	21.8	
26-Oct-07	8	8	5	4	4	9	29	45	63	47	10	8	10	10	11	13	28	26	35	38	31	A	53	52	23.7	62.6	
27-Oct-07	55	28	16	28	23	60	48	95	72	54	15	P	P	8	11	11	21	25	11	8	A	9	7	7	29.2	95.5	
28-Oct-07	8	3	5	6	8	15	24	20	40	24	22	18	10	13	10	11	16	20	16	A	48	28	26	6	17.4	48.0	
29-Oct-07	7	7	4	5	7	20	38	46	47	28	28	17	9	8	9	12	13	10	A	9	N	N	N	N	17.2	47.4	
30-Oct-07	N	N	N	N	N	N	N	N	N	26	16	11	9	9	7	8	11	11	21	12	10	9	7	6	N	25.6	
31-Oct-07	4	3	3	3	8	A	78	58	53	60	40	22	14	11	8	9	9	8	6	8	8	9	6	4	18.8	78.1	
Hourly Avg	22.6	19.1	16.9	17.3	21.1	N	53.7	62.4	57.5	44.4	27.0	21.1	19.2	15.2	14.5	14.5	17.7	26.8	44.8	37.2	40.4	35.8	26.1	24.0			
Hourly Max	102.7	83.2	68.2	56.6	63.0	116.8	235.0	200.4	232.3	201.4	102.1	77.4	93.1	49.0	50.3	34.8	40.6	103.7	321.3	151.0	211.1	157.5	93.5	93.3			

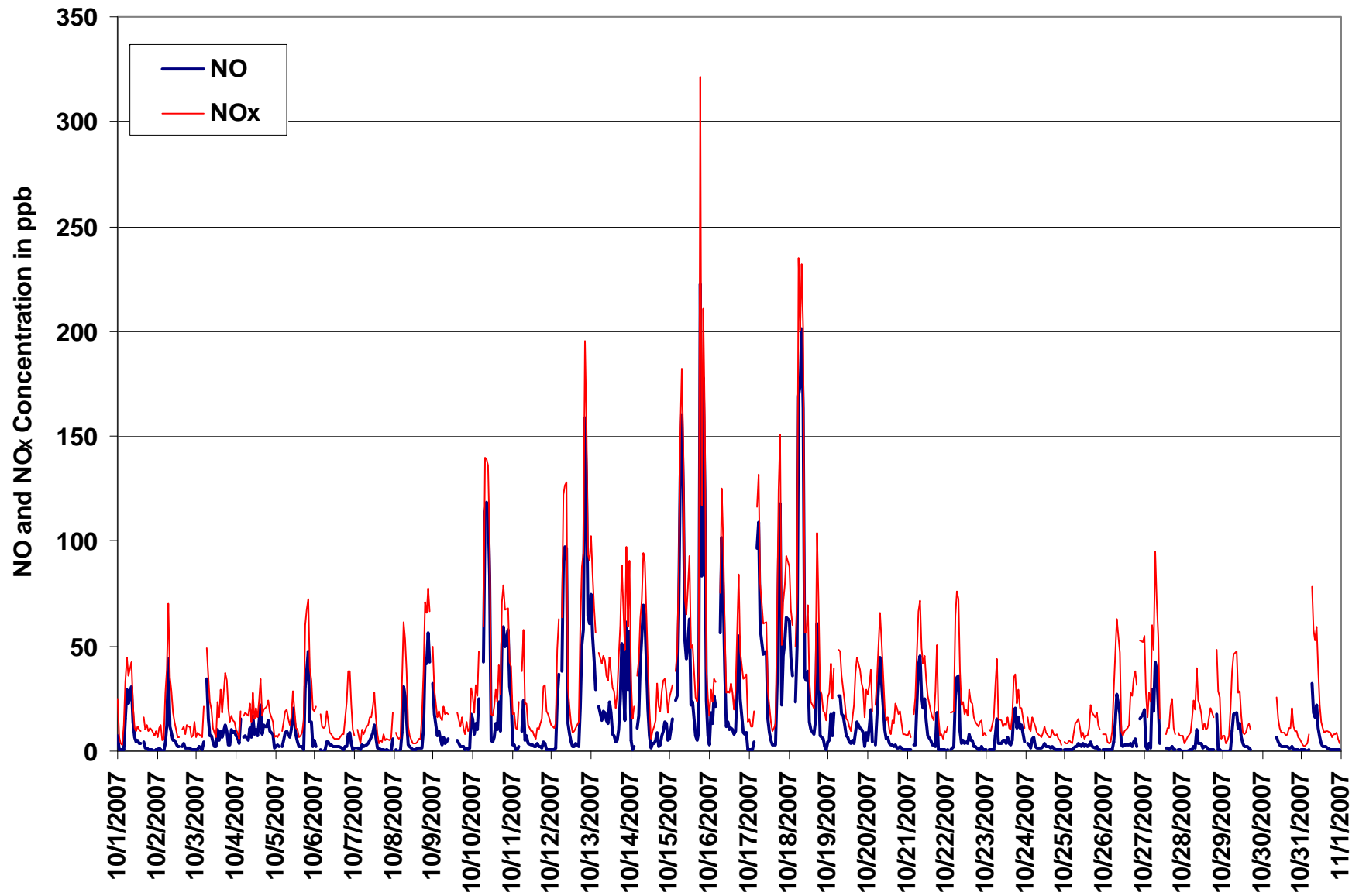


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Henry Pirker Ozone Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

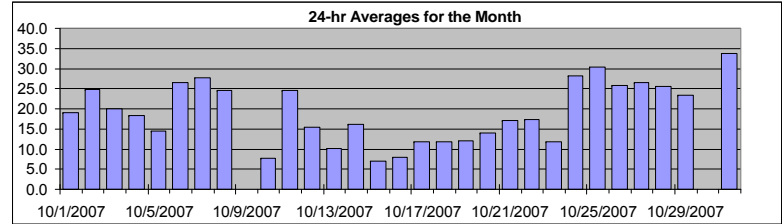
Ozone (O₃)

Monitoring Dates: October 1, 2007 to November 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:	45.6 ppb	27-Oct	13:00	14:00
Maximum 24-hr Average:	33.8 ppb	31-Oct		

AIC Time:	32 hrs		Operational Time:	688 hrs					
Calibration Time:	9 hrs		AMD Operational Uptime:	98.0%					
Percentile	99	95	75	50	25	5	1	Average	Median
	40.0	36.5	28.7	19.1	9.8	2.3	1.4	19.2 ppb	19.1 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Oct-07	19	16	16	14	14	7	5	6	7	10	17	24	27	30	29	A	25	28	23	23	26	25	27	25	19.1	29.9	
2-Oct-07	25	21	19	24	24	15	11	13	17	20	26	32	36	36	A	33	31	31	26	27	27	28	25	22	24.7	36.2	
3-Oct-07	21	21	22	21	17	A	10	10	13	15	20	27	29	21	28	25	30	20	16	19	21	20	19	16	20.0	29.8	
4-Oct-07	16	18	20	21	A	21	18	17	20	21	21	20	20	21	19	19	17	17	17	16	16	16	17	17	18.4	21.1	
5-Oct-07	16	14	13	A	11	9	8	9	9	11	12	14	17	22	28	31	30	26	11	5	5	6	11	14	14.5	31.1	
6-Oct-07	21	17	A	22	22	23	21	19	22	28	33	33	34	36	38	38	38	35	29	25	8	17	21	26	26.4	37.8	
7-Oct-07	30	A	29	30	29	25	22	20	18	17	17	19	21	23	24	25	37	41	37	38	38	35	33	31	27.7	40.8	
8-Oct-07	A	33	32	30	31	17	6	13	22	28	34	37	38	39	40	40	37	29	14	6	5	5	5	A	24.7	39.6	
9-Oct-07	4	4	4	4	16	21	17	19	22	C	C	C	C	C	C	C	C	C	C	A	24	22	21	21	21	N	24.3
10-Oct-07	21	21	14	3	2	A	2	3	4	3	11	14	14	12	11	12	8	6	3	3	3	2	3	3	7.7	21.3	
11-Oct-07	9	13	22	24	24	A	16	10	22	24	31	35	36	37	36	35	34	31	28	21	15	20	20	22	24.6	36.6	
12-Oct-07	21	20	15	9	4	A	2	3	4	11	20	25	32	36	37	38	34	24	4	3	4	3	4	3	15.5	37.7	
13-Oct-07	4	3	3	4	A	2	4	5	7	10	10	12	19	28	28	29	22	9	5	5	11	2	4	6	10.1	29.4	
14-Oct-07	16	18	13	A	7	2	2	2	3	10	15	24	33	34	34	33	26	23	19	17	12	10	10	9	16.1	33.7	
15-Oct-07	4	2	A	2	3	2	2	2	2	3	7	8	10	11	14	33	31	11	3	2	2	2	1	3	7.0	32.8	
16-Oct-07	6	4	2	1	2	A	1	1	2	4	11	15	16	13	11	12	12	4	2	4	16	11	15	19	7.9	19.4	
17-Oct-07	19	16	16	11	A	1	1	1	2	3	7	14	22	26	31	32	29	16	2	5	9	3	2	2	11.7	31.7	
18-Oct-07	2	2	1	A	2	1	3	2	3	4	10	11	16	25	27	28	24	8	4	11	18	23	22	24	11.7	28.5	
19-Oct-07	12	4	2	5	3	A	2	1	5	8	15	19	21	25	29	29	28	12	5	9	6	9	15	12	12.0	29.4	
20-Oct-07	6	6	4	8	A	7	4	2	4	9	15	18	18	24	24	24	24	17	15	16	16	18	20	19	13.9	24.4	
21-Oct-07	18	20	20	A	14	7	3	3	4	8	9	9	16	18	20	23	24	16	13	25	30	32	32	31	17.2	32.0	
22-Oct-07	29	27	A	23	24	16	3	4	13	19	18	21	22	19	14	13	14	16	17	17	15	17	19	17	17.4	28.6	
23-Oct-07	18	A	14	18	12	10	7	8	19	22	21	18	17	17	16	16	13	6	4	4	2	3	3	4	11.8	21.8	
24-Oct-07	A	6	10	14	4	6	27	35	35	37	35	33	32	34	37	36	33	33	34	32	33	35	36	A	28.2	37.0	
25-Oct-07	35	33	33	31	31	29	26	24	24	28	32	35	37	36	36	33	31	26	24	26	28	28	A	30	30.3	37.0	
26-Oct-07	30	31	30	33	33	34	21	11	8	23	33	36	35	34	35	35	27	23	19	18	18	A	18	8	25.8	36.3	
27-Oct-07	14	19	22	18	15	16	6	11	7	16	36	P	P	46	45	43	35	29	36	39	A	35	35	32	26.4	45.6	
28-Oct-07	33	35	33	31	30	25	21	23	20	19	25	32	34	33	31	30	26	21	21	A	10	15	16	26	25.6	34.7	
29-Oct-07	23	24	27	29	26	20	11	5	8	12	12	17	33	37	36	34	32	31	A	31	N	N	N	N	23.5	37.3	
30-Oct-07	N	N	N	N	N	N	N	N	N	21	28	31	34	36	36	35	31	28	25	29	32	33	34	36	N	36.4	
31-Oct-07	40	39	38	38	36	A	11	18	14	14	31	36	40	45	44	41	39	38	38	35	35	35	35	36	33.8	45.0	
Hourly Avg	18.3	17.4	17.5	18.0	16.8	N	9.7	9.9	12.1	15.3	20.3	23.1	26.2	28.4	28.8	29.5	27.5	21.8	17.1	17.8	16.7	17.5	18.1	18.3			
Hourly Max	39.9	39.0	38.1	38.3	36.0	34.0	26.8	34.7	35.1	37.0	36.0	37.2	39.9	45.6	45.4	42.7	39.2	40.8	37.8	38.8	38.0	34.9	36.2	36.4			

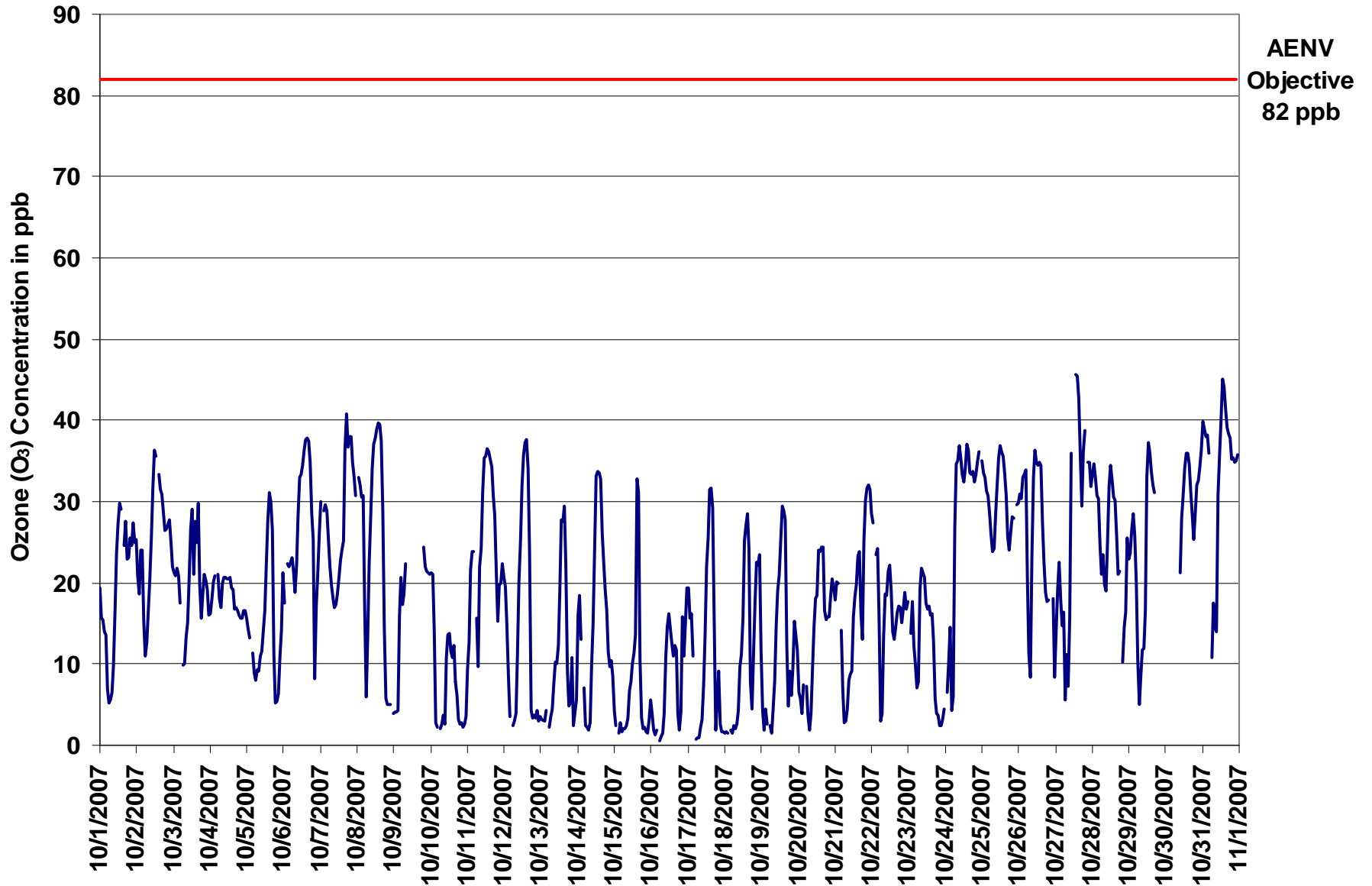


Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

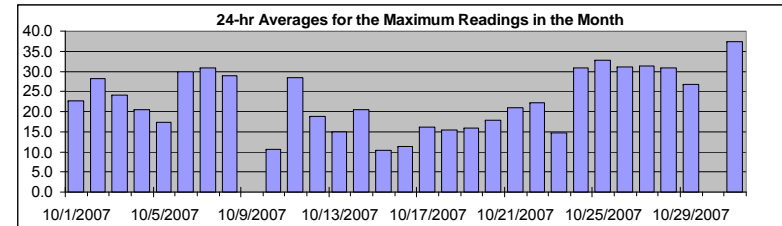
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	48.9	ppb	27-Oct	14:00 15:00
Maximum 24-hr Value:	37.4	ppb	31-Oct	



AIC Time:	32 hrs	Operational Time:	688 hrs						
Calibration Time:	9 hrs	AMD Operational Uptime:	98.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	44.4	39.2	32.5	23.0	14.6	3.6	2.1	22.9 ppb	23.0 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-Oct-07	27	21	17	16	15	12	8	7	9	15	21	27	31	32	31	A	36	34	26	26	28	27	30	27	22.7	36.0	
2-Oct-07	27	26	23	26	25	24	15	24	23	24	30	37	38	37	A	35	34	33	31	28	29	30	27	24	28.3	37.9	
3-Oct-07	23	25	26	22	21	A	14	16	18	19	23	30	31	26	35	32	32	28	22	26	24	22	22	17	24.0	34.7	
4-Oct-07	17	20	21	22	A	23	21	20	22	23	23	22	22	23	22	21	19	20	19	18	18	17	18	18	20.4	23.2	
5-Oct-07	17	16	14	A	13	11	11	13	11	12	13	17	21	24	33	33	32	30	19	7	7	9	15	23	17.5	33.5	
6-Oct-07	26	21	A	26	25	25	24	22	28	31	35	35	36	37	39	40	40	37	32	33	15	25	25	29	29.9	40.3	
7-Oct-07	32	A	31	31	31	27	24	22	21	19	20	21	23	26	28	34	40	45	41	40	41	38	38	35	30.8	44.5	
8-Oct-07	A	36	35	33	33	28	15	24	30	30	38	39	39	40	41	41	40	37	23	12	6	6	6	A	28.8	41.5	
9-Oct-07	4	4	5	8	23	23	20	21	25	C	C	C	C	C	C	C	C	C	A	25	24	23	22	23	N	25.2	
10-Oct-07	23	23	23	4	3	A	4	4	11	3	15	16	17	14	14	16	13	9	6	4	4	3	4	8	10.6	23.2	
11-Oct-07	12	19	25	26	27	A	20	23	26	29	35	37	38	38	38	37	37	34	32	27	22	22	22	25	28.4	38.1	
12-Oct-07	23	22	22	14	7	A	3	4	5	18	24	28	39	38	40	40	38	33	8	5	5	4	10	4	18.9	40.1	
13-Oct-07	5	4	4	10	A	4	5	9	12	13	14	16	29	30	30	35	28	16	12	17	23	5	9	13	14.9	34.6	
14-Oct-07	22	22	18	A	15	6	5	2	4	15	19	33	35	35	36	35	35	27	26	23	19	15	13	11	20.5	35.9	
15-Oct-07	9	4	A	3	8	2	3	3	4	4	11	9	14	14	26	44	38	21	7	3	3	3	5	5	10.5	44.4	
16-Oct-07	7	7	4	2	3	A	1	2	2	9	13	18	20	19	15	16	16	7	3	9	25	18	22	22	11.4	24.8	
17-Oct-07	23	22	19	18	A	2	2	2	4	4	15	19	27	30	34	35	33	29	5	17	18	7	3	2	16.1	35.0	
18-Oct-07	3	3	2	A	5	2	6	6	4	7	11	17	20	30	32	33	32	22	9	13	21	25	26	26	15.3	33.0	
19-Oct-07	19	8	4	9	6	A	5	3	6	11	18	21	24	29	33	34	34	18	9	14	10	13	20	16	15.9	33.7	
20-Oct-07	11	11	9	12	A	12	8	5	6	15	20	24	23	27	27	28	28	24	20	20	21	22	22	21	17.9	28.0	
21-Oct-07	21	22	22	A	19	14	5	5	7	11	10	13	21	21	24	27	26	23	26	31	32	35	34	34	21.0	34.7	
22-Oct-07	33	33	A	26	29	23	7	11	22	22	25	26	29	26	22	18	20	20	20	19	18	20	20	21	22.1	33.2	
23-Oct-07	20	A	16	21	17	12	12	12	23	24	23	21	19	19	18	18	17	11	7	5	3	3	5	6	14.6	23.9	
24-Oct-07	A	10	14	15	8	11	33	38	38	38	38	35	35	37	39	38	37	35	36	35	35	37	37	A	30.9	38.9	
25-Oct-07	36	35	34	32	32	31	28	26	26	31	35	38	39	39	38	36	36	29	28	30	31	31	A	32	32.8	38.8	
26-Oct-07	33	33	33	35	36	37	29	24	15	34	35	38	38	36	39	39	38	29	28	25	23	A	25	15	31.2	38.6	
27-Oct-07	22	23	26	23	18	21	9	18	14	29	40	P	P	49	49	46	42	35	40	41	A	38	37	36	31.3	48.9	
28-Oct-07	36	37	37	36	35	30	28	30	30	24	29	37	37	35	35	33	32	26	26	A	16	27	23	28	30.8	37.2	
29-Oct-07	24	25	29	30	29	24	16	7	14	16	15	23	37	39	38	37	36	33	A	33	N	N	N	N	26.6	39.1	
30-Oct-07	N	N	N	N	N	N	N	N	N	24	31	34	37	38	38	37	35	31	30	32	35	35	37	40	N	26.6	39.1
31-Oct-07	41	40	39	39	38	A	19	29	22	24	39	42	43	48	47	45	41	41	39	37	37	37	37	38	37.4	48.3	
Hourly Avg	21.3	20.4	20.4	20.8	20.0	N	13.4	14.4	16.1	19.3	24.0	26.7	29.8	31.3	32.3	33.3	32.2	27.2	21.8	21.8	20.4	20.5	21.2	21.4			
Hourly Max	41.2	39.7	38.9	39.2	38.2	36.5	33.5	37.9	38.0	38.5	40.2	41.7	43.4	48.6	48.9	46.3	41.9	44.5	41.4	41.1	41.0	38.1	37.5	39.7			

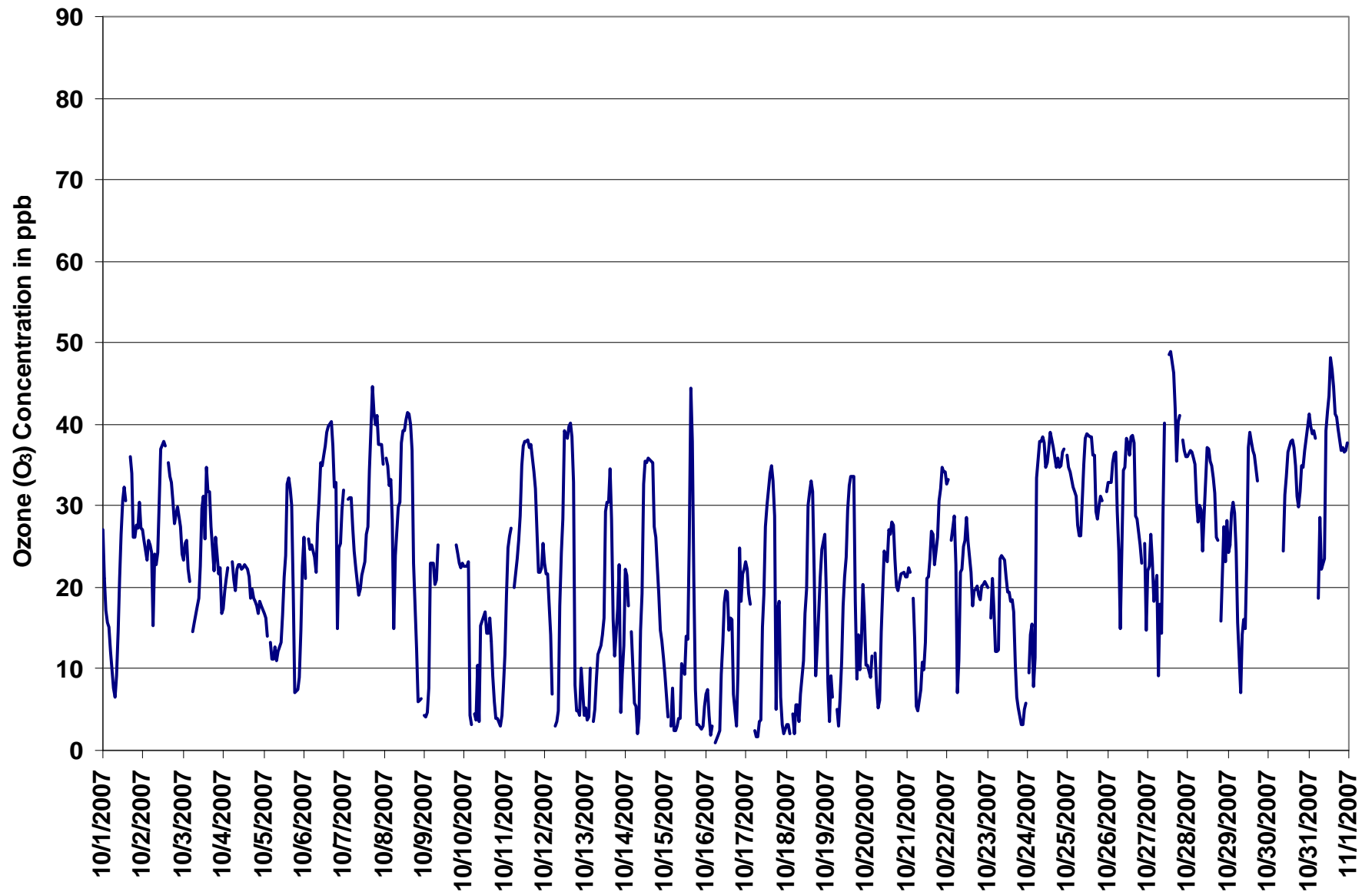
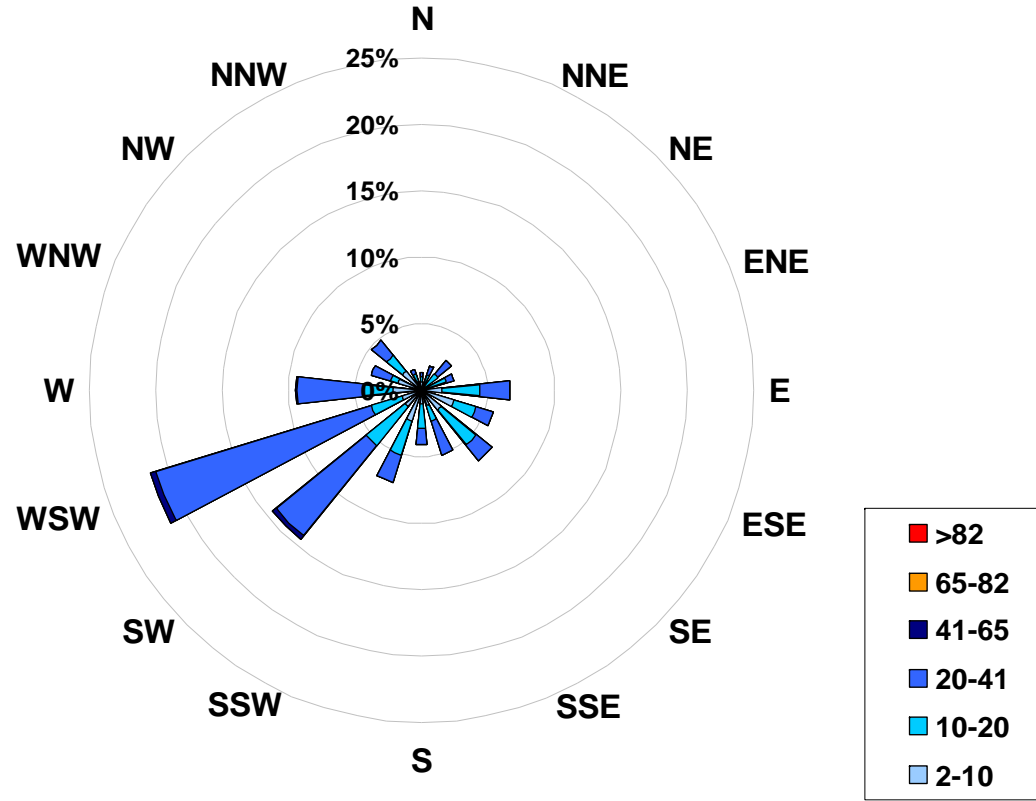


Figure 8. PASZA - Henry Pirker Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	<	10	173
10	to	20	191
20	to	41	318
41	to	65	6
65	to	82	0
	>	82	0
Total Non-Zero Values			688

PASZA - Henry Pirker Ozone Eight Hour Average Summary

Station: Henry Pirker
 Station Owner: PASZA

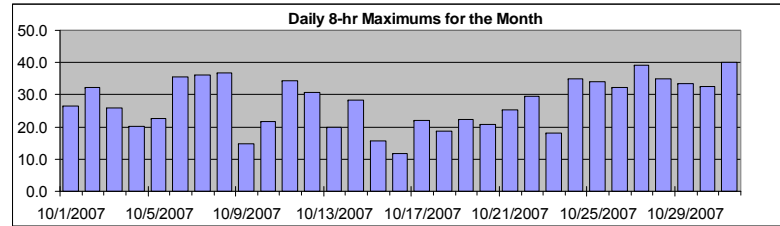
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: October 1, 2007 to November 1, 2007

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

Number of 8-hr Exceedances:	0		
Maximum 8-hr Average:	40.2 ppb	31-Oct	18:00 19:00



Percentile	99	95	75	50	25	5	1
	37.5	34.2	25.9	18.5	11.6	3.7	2.1

Status Flag Characters

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

Day	Mountain Standard Time																							Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Oct-07	23	21	20	19	17	16	14	12	10	10	10	11	13	16	19	20	23	26	26	26	26	25	25	25	26.5	
2-Oct-07	25	24	24	24	24	23	20	19	18	18	19	20	21	24	26	28	31	32	32	32	32	30	29	29	27	32.2
3-Oct-07	26	25	24	23	22	21	19	17	16	15	15	16	18	18	20	22	24	25	24	23	22	22	21	20	25.9	
4-Oct-07	18	18	19	19	19	19	19	19	19	20	20	20	20	20	20	20	20	19	19	19	18	17	17	16	20.2	
5-Oct-07	16	16	15	15	15	14	13	12	11	10	10	10	11	13	15	18	21	22	22	21	20	18	16	14	22.5	
6-Oct-07	13	12	12	14	16	19	20	21	21	23	24	25	27	28	31	33	35	36	35	34	31	28	26	25	35.6	
7-Oct-07	24	22	22	23	26	27	27	26	25	24	22	21	20	20	20	20	23	26	28	31	33	34	35	36	36.1	
8-Oct-07	36	35	34	33	32	30	26	23	23	23	24	25	27	31	35	37	37	34	30	26	22	18	15	36.7		
9-Oct-07	10	6	5	5	6	8	10	11	13	15	N	N	N	N	N	N	N	N	N	N	N	N	N	N	14.8	
10-Oct-07	N	22	21	18	16	15	12	9	7	4	4	5	7	8	9	10	10	11	10	9	7	6	5	4	21.8	
11-Oct-07	4	5	7	10	12	14	16	17	18	20	21	23	25	26	29	32	34	34	34	32	30	28	26	24	34.4	
12-Oct-07	22	21	19	18	16	16	13	10	8	7	8	10	14	17	21	25	29	31	29	26	23	18	14	10	30.7	
13-Oct-07	6	4	3	4	3	3	3	3	4	5	6	7	9	12	15	18	20	20	19	18	17	14	11	8	19.8	
14-Oct-07	7	8	9	10	10	10	9	9	7	6	6	8	11	15	19	23	26	28	28	27	25	22	19	16	28.2	
15-Oct-07	13	10	9	7	6	5	3	2	2	2	3	4	4	6	7	11	15	16	15	14	13	12	11	7	15.5	
16-Oct-07	4	3	3	3	3	3	3	2	2	2	3	5	7	8	9	10	12	12	11	9	9	9	9	10	11.7	
17-Oct-07	11	13	15	15	15	14	12	9	7	5	4	4	6	9	13	17	21	22	21	20	19	16	12	8	22.1	
18-Oct-07	5	3	3	3	2	2	2	2	2	3	4	6	9	12	16	18	19	18	18	18	18	18	17	17	18.7	
19-Oct-07	15	15	14	14	12	10	7	4	3	4	5	8	10	12	15	19	22	22	21	20	18	16	14	12	22.2	
20-Oct-07	9	9	8	8	9	8	7	5	5	5	7	8	10	12	14	17	20	21	21	20	20	19	19	18	20.6	
21-Oct-07	18	18	19	19	19	17	14	12	10	8	7	7	7	9	11	13	16	17	17	19	21	23	24	25	25.4	
22-Oct-07	26	27	29	29	28	26	22	18	16	15	15	15	15	15	16	18	18	17	17	17	16	16	16	17	29.5	
23-Oct-07	17	17	17	17	16	15	14	12	13	14	15	15	15	16	17	18	17	15	13	12	10	8	6	5	18.2	
24-Oct-07	4	4	5	6	7	7	10	15	17	21	24	27	30	34	35	35	35	34	34	34	34	34	34	34	35.1	
25-Oct-07	34	34	34	34	34	33	31	30	29	28	28	29	29	30	32	33	34	33	32	31	30	29	28	27	34.1	
26-Oct-07	27	28	29	30	31	32	30	28	25	24	25	25	25	25	27	30	32	32	30	28	26	25	22	19	32.3	
27-Oct-07	17	16	17	17	16	16	15	15	14	14	16	15	N	N	N	N	N	N	N	39	39	38	36	34	39.1	
28-Oct-07	34	35	34	33	33	32	30	29	27	25	24	24	25	26	27	28	29	29	28	28	25	22	20	19	34.9	
29-Oct-07	19	19	20	21	23	24	23	20	19	17	15	14	15	17	20	24	27	29	31	33	N	N	N	N	33.4	
30-Oct-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	32	31	32	32	32	31	31	31	31	32.4	
31-Oct-07	32	34	35	36	37	37	34	31	28	24	23	23	23	26	30	33	36	39	40	40	40	38	37	36	40.2	
Hourly Max	36.0	34.9	35.1	36.3	36.8	37.4	34.1	31.4	28.9	28.3	28.1	28.7	30.1	33.6	34.9	35.1	36.6	39.3	40.2	40.2	39.6	38.3	37.2	36.5		

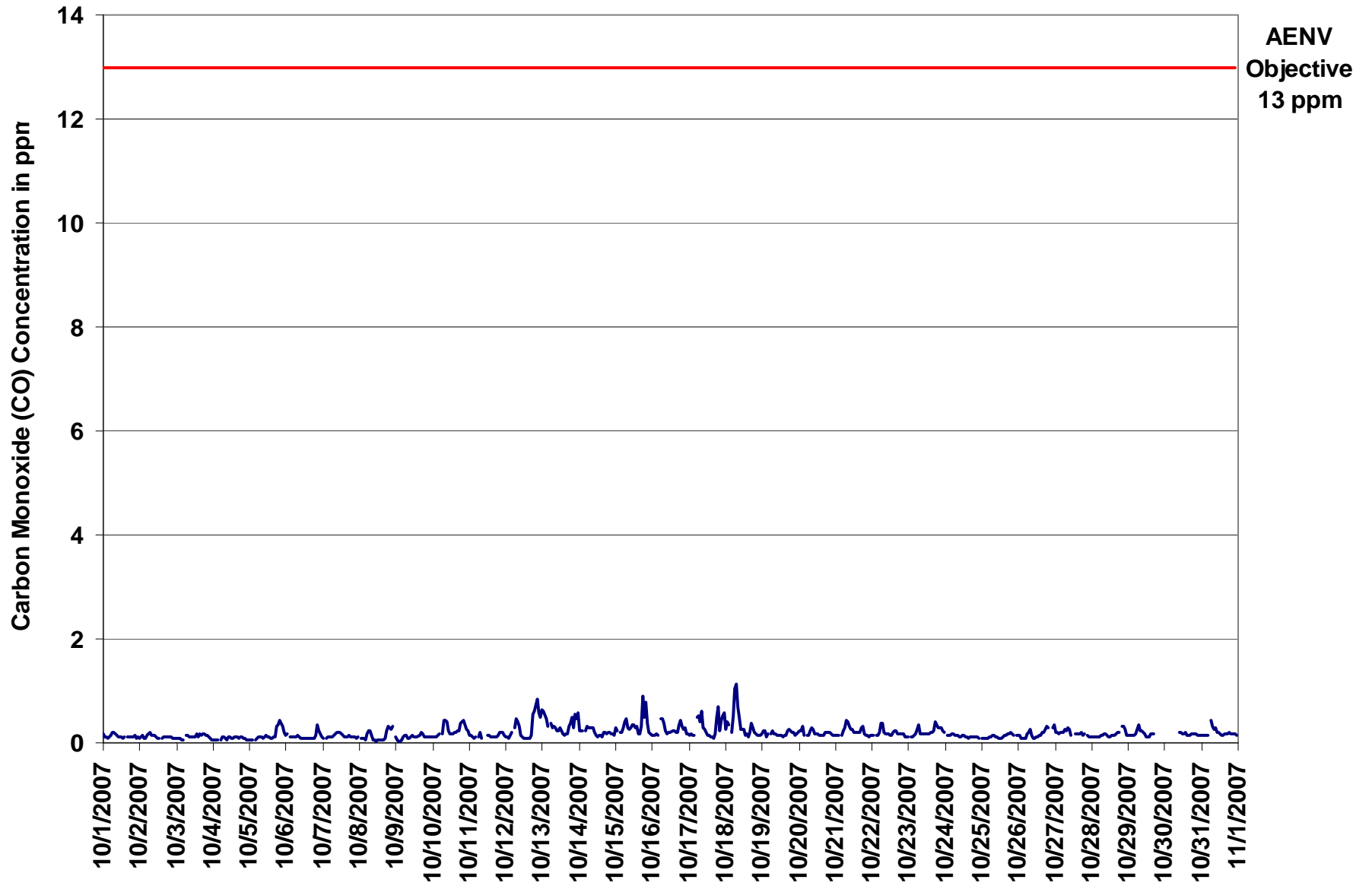


Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

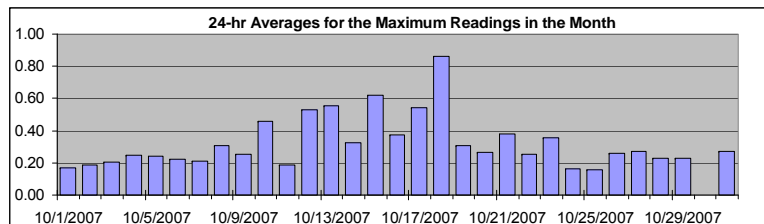
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	5.8	ppm	18-Oct	7:00 8:00
Maximum 24-hr Value:	0.9	ppm	18-Oct	



AIC Time:	33 hrs	Operational Time:	694 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	98.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.8	0.9	0.3	0.2	0.2	0.1	0.1	0.3 ppm	0.2 ppm

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	0:00 Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			0:00	
1-Oct-07	0.4	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	A	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.17	0.40
2-Oct-07	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.8	0.2	0.2	0.3	0.2	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.18	0.79	
3-Oct-07	0.1	0.1	0.2	0.1	0.1	A	0.3	0.4	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.3	0.4	0.3	0.3	0.2	0.1	0.1	0.21	0.37		
4-Oct-07	0.1	0.1	0.1	0.1	A	0.2	0.3	0.4	0.2	0.1	0.3	0.7	0.6	0.6	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.24	0.72		
5-Oct-07	0.1	0.1	0.1	A	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.6	0.6	0.8	0.5	0.5	0.3	0.24	0.75		
6-Oct-07	0.3	0.2	A	0.1	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	0.9	0.4	0.5	0.6	0.1	0.22	0.90		
7-Oct-07	0.1	A	0.2	0.1	0.3	0.2	0.2	0.5	0.2	0.5	0.4	0.4	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.3	0.21	0.46		
8-Oct-07	A	0.3	0.1	0.1	0.1	1.2	0.6	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.5	0.8	0.7	0.5	A	0.31	1.16		
9-Oct-07	0.3	0.1	0.1	0.1	0.1	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25	1.58		
10-Oct-07	0.2	0.2	0.2	0.3	0.3	A	0.3	0.9	0.8	0.6	0.6	0.3	0.3	0.3	0.3	0.4	0.4	0.4	1.8	0.6	0.6	0.7	0.4	0.3	0.46	1.81		
11-Oct-07	0.2	0.2	0.2	0.1	0.2	A	0.2	0.3	0.1	C	C	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.19	0.30		
12-Oct-07	0.2	0.2	0.1	0.3	0.6	A	0.3	1.4	0.6	0.6	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.9	0.9	1.6	1.3	1.2	0.9	0.53	1.55		
13-Oct-07	1.0	0.7	0.6	0.5	A	0.5	0.4	0.6	0.3	0.3	0.3	0.4	0.3	0.2	0.2	0.2	0.3	0.4	0.5	1.1	0.4	0.9	0.6	1.7	0.55	1.67		
14-Oct-07	0.3	0.2	0.3	A	0.3	0.4	0.3	0.4	0.4	0.5	0.3	0.3	0.2	0.2	0.5	0.2	0.3	0.3	0.3	0.4	0.3	0.4	0.5	0.2	0.33	0.55		
15-Oct-07	1.1	0.3	A	0.3	0.4	0.5	0.7	0.7	0.5	0.4	0.3	0.4	0.5	0.3	0.5	0.2	0.2	0.4	1.4	1.1	1.9	1.4	0.2	0.2	0.62	1.93		
16-Oct-07	0.2	0.2	0.2	0.3	0.2	A	0.8	0.7	0.5	0.4	0.3	0.3	0.2	0.3	0.3	0.2	0.3	0.7	0.5	0.4	0.4	0.4	0.3	0.2	0.37	0.77		
17-Oct-07	0.2	0.2	0.2	0.2	A	1.6	0.8	0.5	0.7	0.5	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.5	1.1	1.6	0.5	1.0	0.8	0.7	0.54	1.56		
18-Oct-07	0.6	0.5	0.4	A	0.3	1.2	1.3	5.8	1.2	0.9	0.3	0.3	0.4	0.2	0.8	0.4	1.7	1.0	1.0	0.3	0.2	0.2	0.2	0.2	0.86	5.83		
19-Oct-07	0.2	0.3	0.3	0.2	1.3	A	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.6	0.3	0.3	0.3	0.3	0.31	1.30		
20-Oct-07	0.3	0.3	0.6	0.2	A	0.2	0.2	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.26	0.57		
21-Oct-07	0.2	0.2	0.2	A	0.1	1.0	0.5	1.4	0.7	0.5	0.3	0.4	0.2	0.2	0.2	0.2	0.3	0.2	0.4	0.6	0.2	0.2	0.1	0.1	0.38	1.43		
22-Oct-07	0.1	0.1	A	0.2	0.2	0.5	0.6	0.6	0.3	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	0.26	0.57		
23-Oct-07	0.2	A	0.2	0.2	0.2	0.2	0.4	1.0	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.9	0.4	0.4	0.4	0.6	0.3	0.2	0.36	0.97	
24-Oct-07	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.1	A	0.16	0.25	
25-Oct-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.1	0.16	0.24	
26-Oct-07	0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.2	0.5	0.3	0.1	0.1	0.2	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.3	A	0.6	0.6	0.26	0.59		
27-Oct-07	0.3	0.2	0.2	0.3	0.2	0.5	0.4	0.4	0.6	0.4	0.2	P	P	0.3	0.2	0.2	0.2	0.3	0.2	0.3	A	0.2	0.2	0.2	0.27	0.59		
28-Oct-07	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	A	0.4	0.4	0.4	0.2	0.23	0.44		
29-Oct-07	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	A	A	N	N	N	N	0.23	0.59		
30-Oct-07	N	N	N	N	N	N	N	N	N	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	N	0.26	0.26	
31-Oct-07	0.2	0.2	0.2	0.2	0.2	A	1.0	0.6	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.27	1.03		
Hourly Avg	0.27	0.22	0.20	0.18	0.24	N	0.41	0.70	0.39	0.32	0.24	0.25	0.21	0.20	0.22	0.20	0.31	0.31	0.45	0.44	0.42	0.41	0.34	0.30				
Hourly Max	1.07	0.69	0.59	0.49	1.30	1.56	1.33	5.83	1.22	0.88	0.55	0.72	0.59	0.58	0.76	0.43	1.74	1.03	1.81	1.56	1.93	1.39	1.22	1.67				

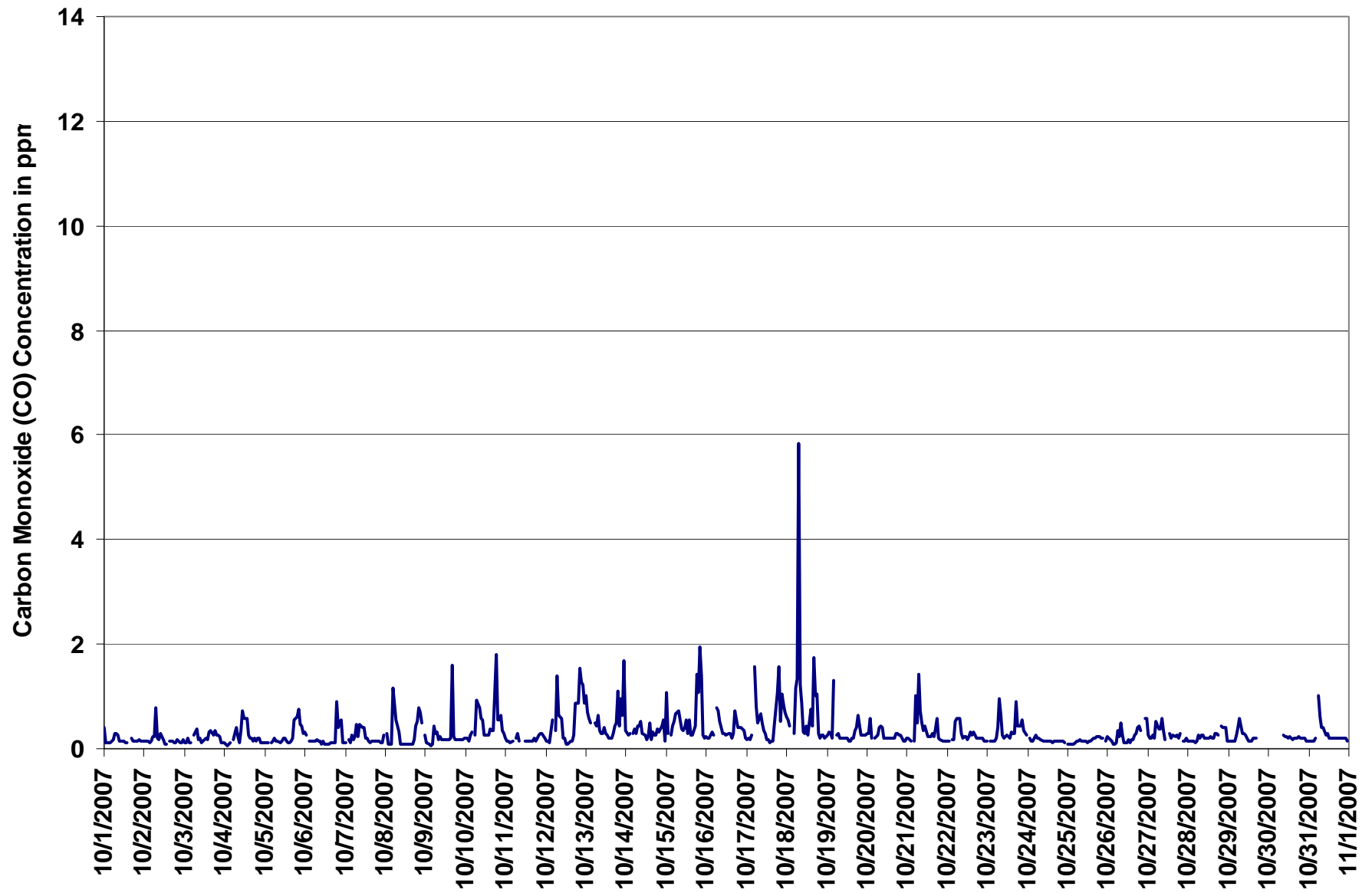
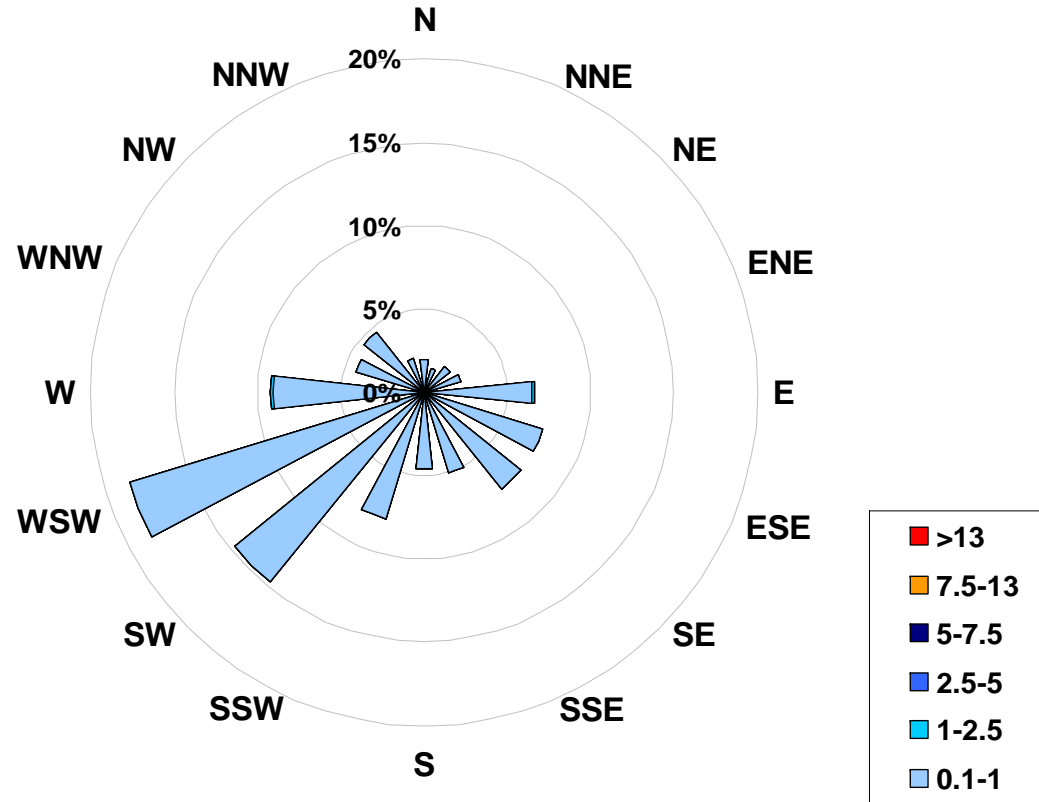


Figure 10. PASZA - Henry Pirker Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of CO in ppm			Frequency (hrs)
Range			
0.1	<	1	692
1	to	2.5	2
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
	>	13	0
Total Non-Zero Values			694

PASZA - Henry Pirker Carbon Monoxide Eight Hour Average Summary

Station: Henry Pirker
Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

Carbon Monoxide (CO)

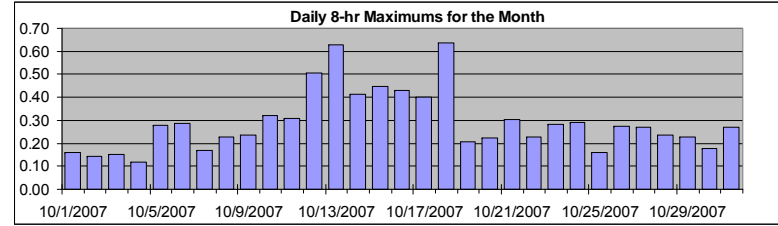
Monitoring Dates: October 1, 2007 to November 1, 2007

Objective Limit: Alberta Environment: 8-hr 5 ppm

Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	0.6	ppm	18-Oct	9:00 10:00

Percentile	99	95	75	50	25	5	1
	0.6	0.4	0.2	0.2	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

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-Oct-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	0.16
2-Oct-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	0.14
3-Oct-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	0.2	0.1	0.1	0.1	0.15
4-Oct-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	0.12
5-Oct-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	0.2	0.2	0.2	0.3	0.3	0.28
6-Oct-07	0.3	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	0.2	0.2	0.29
7-Oct-07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.17
8-Oct-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	0.2	0.2	0.2	0.23
9-Oct-07	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	0.23
10-Oct-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.32
11-Oct-07	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	N	N	N	N	N	N	N	N	N	0.1	0.1	0.1	0.1	0.2	0.2	0.31
12-Oct-07	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.50
13-Oct-07	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.63
14-Oct-07	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.41
15-Oct-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.45
16-Oct-07	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.43
17-Oct-07	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.40
18-Oct-07	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.64
19-Oct-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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
20-Oct-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
21-Oct-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.30
22-Oct-07	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
23-Oct-07	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.28
24-Oct-07	0.3	0.3	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	0.29
25-Oct-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	0.2	0.2	0.2	0.16
26-Oct-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	0.2	0.2	0.2	0.2	0.2	0.3	0.27
27-Oct-07	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N	N	N	N	N	N	N	0.2	0.2	0.2	0.2	0.1	0.27
28-Oct-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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
29-Oct-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	N	N	N	N	N	0.23
30-Oct-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18
31-Oct-07	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.27

Hourly Max	0.57	0.63	0.62	0.58	0.56	0.50	0.48	0.56	0.62	0.64	0.62	0.58	0.58	0.54	0.43	0.30	0.27	0.28	0.36	0.38	0.43	0.45	0.45	0.50
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PASZA - Henry Pirker Total Hydrocarbons Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

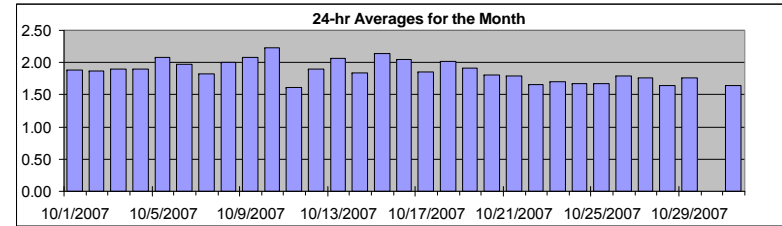
HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)

Monitoring Dates: October 1, 2007 to November 1, 2007

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

Maximum 1-hr Average:	2.9	ppm	5-Oct	23:00 0:00
Maximum 24-hr Value:	2.2	ppm	10-Oct	



AIC Time:	32 hrs	Operational Time:	693 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	97.8%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.5	2.3	2.0	1.8	1.7	1.6	1.5	1.9 ppm	1.8 ppm

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Oct-07	1.9	1.9	1.9	1.8	1.9	2.1	2.2	2.0	2.0	1.9	1.8	1.8	1.8	1.8	1.8	A	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.88	2.22
2-Oct-07	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	A	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.87	2.01
3-Oct-07	2.1	2.0	1.9	1.9	1.9	A	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.9	1.9	2.0	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.90	2.07
4-Oct-07	1.9	1.8	1.8	1.8	A	1.8	1.9	1.8	1.9	1.8	1.9	1.8	1.9	1.8	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.90	2.02
5-Oct-07	1.9	1.9	1.9	A	1.9	2.0	2.0	2.0	2.1	2.0	2.0	2.1	2.0	2.0	2.0	1.9	1.9	1.9	2.1	2.2	2.4	2.3	2.4	2.9	2.09	2.94	
6-Oct-07	2.1	2.1	A	2.0	2.0	2.0	2.0	1.9	1.9	1.8	1.9	1.9	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	1.9	1.97	2.11	
7-Oct-07	1.9	A	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.82	1.87	
8-Oct-07	A	1.8	1.8	1.8	1.8	1.9	2.1	2.1	2.2	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.2	2.2	A	2.00	2.23		
9-Oct-07	2.3	2.3	2.3	2.4	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.1	2.1	2.2	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.07	2.41	
10-Oct-07	1.9	2.0	2.2	2.4	2.4	A	2.3	2.4	2.5	2.6	2.2	2.1	2.1	2.1	2.0	2.0	2.1	2.0	2.1	2.3	2.4	2.5	2.4	2.4	2.23	2.56	
11-Oct-07	2.2	2.1	1.9	1.9	1.8	A	1.7	1.7	1.6	1.6	1.6	C	C	C	A	1.3	1.3	1.3	1.3	1.4	1.5	1.5	1.5	1.5	1.61	2.18	
12-Oct-07	1.7	1.6	1.7	1.9	2.1	A	2.3	2.1	2.0	1.9	1.7	1.7	1.7	1.7	1.6	1.7	1.7	1.7	1.9	2.0	2.1	2.4	2.2	2.2	1.89	2.35	
13-Oct-07	2.6	2.7	2.5	2.5	A	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.7	1.8	1.9	2.0	2.0	2.1	1.9	2.0	2.0	2.1	2.06	2.66	
14-Oct-07	1.9	1.8	1.8	A	2.0	2.1	2.0	2.0	2.1	1.9	1.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.9	1.83	2.12	
15-Oct-07	2.2	2.3	A	2.3	2.2	2.3	2.2	2.2	2.2	C	2.1	2.1	2.1	2.0	2.0	1.7	1.7	1.9	2.2	2.3	2.4	2.3	2.2	2.1	2.14	2.41	
16-Oct-07	2.0	2.1	2.1	2.2	2.1	A	2.6	2.4	2.4	2.1	1.9	1.8	1.8	1.9	1.9	1.9	1.9	2.0	2.1	2.1	1.8	2.2	1.8	1.8	2.05	2.61	
17-Oct-07	1.8	1.7	1.7	1.7	A	2.4	2.1	1.8	1.9	2.0	1.9	1.8	1.6	1.7	1.6	1.6	1.6	1.7	1.9	1.9	1.8	2.0	2.2	2.3	1.86	2.36	
18-Oct-07	2.0	2.2	2.6	A	2.2	2.3	2.4	2.5	2.4	2.4	2.1	1.9	1.9	1.8	1.7	1.7	1.7	1.9	1.9	1.8	1.8	1.8	1.7	1.7	2.02	2.58	
19-Oct-07	1.9	2.0	2.0	2.0	2.1	A	2.1	2.2	2.1	2.0	1.9	1.9	1.8	1.8	1.7	1.7	1.7	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.91	2.17	
20-Oct-07	2.0	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.7	1.8	1.81	1.96	
21-Oct-07	1.9	1.8	1.8	A	1.8	1.9	1.9	2.1	2.0	1.9	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.8	1.7	1.6	1.6	1.6	1.6	1.79	2.08	
22-Oct-07	1.7	1.7	A	1.7	1.7	1.7	1.8	1.8	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.65	1.82	
23-Oct-07	1.7	A	1.7	1.6	1.7	1.7	1.8	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.71	1.83	
24-Oct-07	A	1.7	1.6	1.6	2.2	1.9	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.6	A	1.67	2.16	
25-Oct-07	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	A	1.6	1.67	1.71	
26-Oct-07	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	A	1.9	1.9	1.79	1.92	
27-Oct-07	1.9	1.8	1.8	1.8	1.8	1.9	2.2	1.9	1.8	1.8	1.5	P	P	1.9	1.9	1.7	1.6	1.6	1.6	1.6	A	1.6	1.7	1.6	1.77	2.16	
28-Oct-07	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.7	A	1.9	1.8	1.8	1.7	1.65	1.86
29-Oct-07	1.9	2.0	1.7	1.6	1.7	1.7	1.8	1.8	1.8	1.8	1.9	1.8	1.7	1.7	1.7	1.8	1.8	1.7	A	1.7	N	N	N	N	1.76	2.00	
30-Oct-07	N	N	N	N	N	N	N	N	N	2.0	2.0	1.9	1.8	2.0	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	N	2.03	
31-Oct-07	1.7	1.7	1.6	1.6	1.6	A	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.8	1.7	1.6	1.6	1.6	1.64	1.78	
Hourly Avg	1.92	1.93	1.90	1.89	1.92	N	1.98	1.95	1.93	1.88	1.82	1.81	1.79	1.80	1.79	1.77	1.77	1.80	1.86	1.87	1.88	1.89	1.88	1.89	1.89		
Hourly Max	2.57	2.66	2.58	2.49	2.42	2.36	2.61	2.54	2.47	2.56	2.18	2.21	2.17	2.09	2.14	2.24	2.07	2.06	2.23	2.34	2.43	2.52	2.41	2.94			

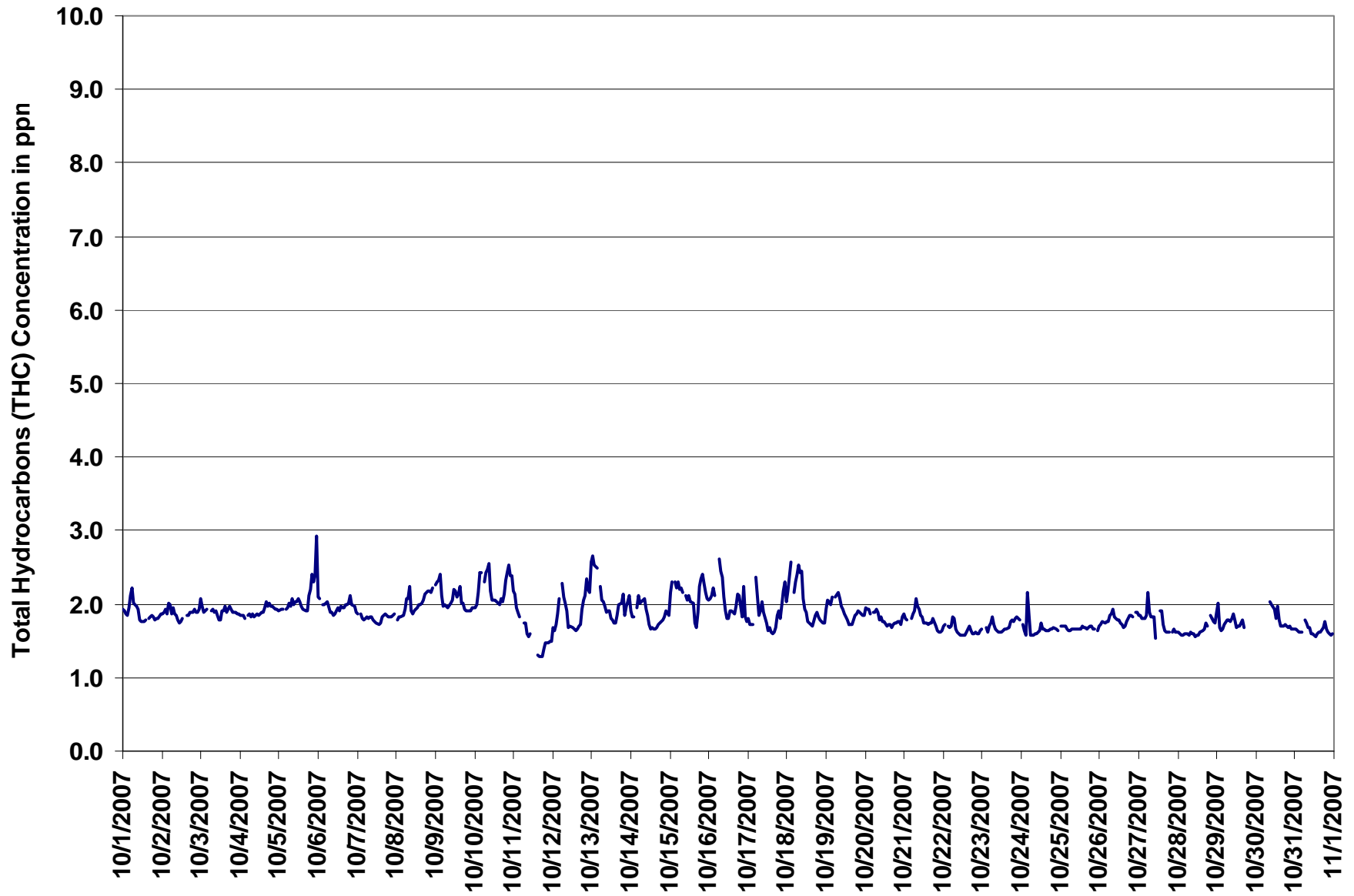


Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

Station: Henry Pirker
Station Owner: PASZA

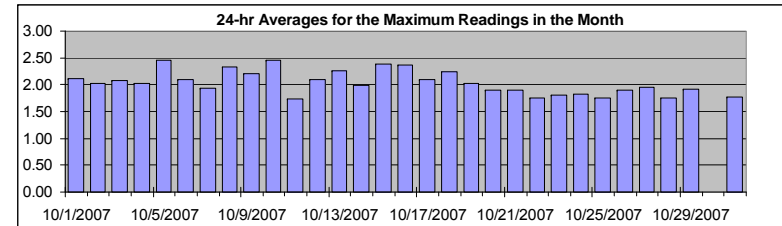
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Hydrocarbons (THC)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	7.3	ppm	5-Oct	20:00 21:00
Maximum 24-hr Value:	2.5	ppm	5-Oct	



AIC Time:	32 hrs	Operational Time:	693 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	98.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.2	2.7	2.1	2.0	1.8	1.7	1.6	2.0 ppm	2.0 ppm

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Oct-07	2.1	2.0	1.9	1.9	2.3	3.1	3.8	2.1	2.1	2.1	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.1	2.12	3.76	
2-Oct-07	2.0	2.0	2.1	2.0	2.2	2.2	2.0	2.8	2.0	1.9	1.9	1.8	1.8	1.9	A	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.02	2.85	
3-Oct-07	2.4	2.1	2.0	2.3	2.2	A	2.0	2.1	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.4	2.0	2.2	2.4	2.0	2.1	2.0	1.9	2.08	2.43		
4-Oct-07	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.3	2.0	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.02	2.30	
5-Oct-07	2.0	2.0	2.1	A	2.0	2.1	2.1	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.1	2.0	2.0	2.1	2.4	2.4	7.3	2.5	2.8	3.4	2.46	7.33	
6-Oct-07	2.3	2.2	A	2.1	2.1	2.1	2.2	2.0	2.0	1.9	2.0	2.0	2.1	2.0	2.1	2.1	2.0	2.1	2.1	2.3	2.2	2.2	2.1	2.0	2.09	2.26	
7-Oct-07	2.0	A	2.0	1.9	1.9	2.0	1.9	1.9	1.9	2.0	1.9	1.9	1.8	1.8	2.0	1.9	2.0	2.0	1.9	1.9	1.9	2.0	2.0	2.0	1.93	2.02	
8-Oct-07	A	1.9	2.0	2.0	2.1	2.3	2.6	2.4	4.1	3.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.6	2.3	2.4	2.3	2.5	A	2.33	4.15	
9-Oct-07	2.4	2.4	2.5	2.5	2.6	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.2	2.3	2.4	2.2	2.1	2.0	2.0	2.0	2.0	2.1	2.21	2.57		
10-Oct-07	2.0	2.1	2.6	2.9	2.6	A	2.6	2.6	2.6	2.7	2.6	2.1	2.1	2.2	2.1	2.1	2.2	2.1	2.5	2.4	2.6	3.1	2.5	2.9	2.45	3.08	
11-Oct-07	2.3	2.3	2.0	2.0	1.9	A	1.9	1.9	1.8	1.7	1.7	C	C	C	A	1.4	1.4	1.4	1.4	1.5	1.7	1.5	1.6	1.6	1.74	2.33	
12-Oct-07	1.8	1.8	2.0	2.2	2.4	A	2.5	2.4	2.1	2.1	1.8	1.9	1.8	1.8	1.7	1.8	1.8	1.8	2.1	2.4	2.5	2.6	2.5	2.5	2.09	2.58	
13-Oct-07	2.9	2.9	2.7	2.7	A	2.4	2.2	2.2	2.1	2.0	2.0	2.0	1.9	1.9	1.8	1.9	2.1	2.1	2.1	2.4	2.0	2.3	2.3	2.9	2.26	2.92	
14-Oct-07	2.0	1.9	2.0	A	2.1	2.5	2.4	2.2	2.2	2.3	2.0	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2.1	1.9	1.99	2.51	
15-Oct-07	2.4	2.5	A	2.6	2.4	2.5	2.5	2.3	2.3	C	2.3	2.1	2.4	2.2	2.2	1.9	1.8	2.0	3.0	3.0	2.7	2.8	2.2	2.2	2.38	2.98	
16-Oct-07	2.2	2.3	2.5	2.7	2.7	A	3.3	2.6	3.2	2.3	2.0	1.9	1.9	2.5	2.0	2.0	1.9	2.4	2.7	2.4	2.1	3.0	1.9	1.9	2.37	3.28	
17-Oct-07	2.2	1.9	1.8	1.9	A	3.7	2.7	2.0	2.0	2.3	2.3	1.9	1.7	1.7	1.7	1.7	1.7	1.8	2.0	2.2	2.0	2.2	2.4	2.5	2.09	3.67	
18-Oct-07	2.4	2.5	2.8	A	2.7	2.7	2.7	3.1	2.6	2.7	2.2	2.1	2.0	1.9	1.9	1.8	1.9	2.1	2.1	1.9	1.9	1.8	1.8	1.8	2.24	3.13	
19-Oct-07	2.1	2.2	2.2	2.1	2.4	A	2.2	2.2	2.2	2.1	2.0	2.0	1.9	1.9	1.8	1.8	1.8	1.9	1.9	2.0	2.0	2.0	1.9	1.9	2.02	2.35	
20-Oct-07	2.1	2.0	2.1	2.0	A	2.0	2.0	2.0	2.0	1.9	1.9	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.90	2.07	
21-Oct-07	2.0	1.9	1.9	A	1.9	2.1	2.1	2.3	2.3	2.1	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	2.0	1.8	1.7	1.7	1.7	1.7	1.90	2.33	
22-Oct-07	1.8	1.8	A	1.8	1.8	1.8	2.1	1.9	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.76	2.06	
23-Oct-07	1.8	A	1.8	1.7	1.9	1.9	2.0	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.9	1.9	1.8	1.9	1.9	1.9	1.9	1.81	2.02	
24-Oct-07	A	1.8	1.8	1.8	3.2	2.0	1.8	1.6	1.7	1.7	1.7	1.7	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.7	1.7	A	1.82	3.24	
25-Oct-07	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.7	1.7	A	1.7	1.76	1.83	
26-Oct-07	1.8	1.8	1.8	1.8	1.9	1.9	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.9	2.1	2.1	1.9	A	2.0	2.0	1.90	2.10	
27-Oct-07	2.0	1.9	1.9	1.9	1.9	2.0	2.3	2.2	2.0	3.2	1.6	P	P	2.0	2.0	1.9	1.7	1.7	1.7	1.7	A	1.7	1.9	1.7	1.95	3.16	
28-Oct-07	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.9	1.8	A	2.0	2.0	2.0	2.0	1.76	2.01	
29-Oct-07	2.1	2.3	1.8	1.7	1.7	2.0	2.0	1.9	1.9	2.0	2.5	1.9	1.8	1.8	1.8	1.9	1.9	1.8	A	1.8	N	N	N	N	1.92	2.49	
30-Oct-07	N	N	N	N	N	N	N	N	N	2.2	2.1	2.1	2.0	2.1	2.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	N	2.17	2.17
31-Oct-07	1.8	1.8	1.7	1.7	1.7	A	1.9	2.6	1.8	1.8	1.7	1.7	1.7	1.6	1.7	1.7	1.7	1.8	1.9	1.8	1.7	1.7	1.7	1.7	1.77	2.56	
Hourly Avg	2.09	2.07	2.04	2.06	2.15	N	2.23	2.16	2.14	2.10	1.97	1.92	1.90	1.92	1.90	1.88	1.88	1.92	2.05	2.03	2.18	2.07	2.04	2.07			
Hourly Max	2.92	2.90	2.77	2.95	3.24	3.67	3.76	3.13	4.15	3.16	2.56	2.35	2.43	2.54	2.25	2.37	2.22	2.37	2.97	2.98	7.33	3.08	2.85	3.45			

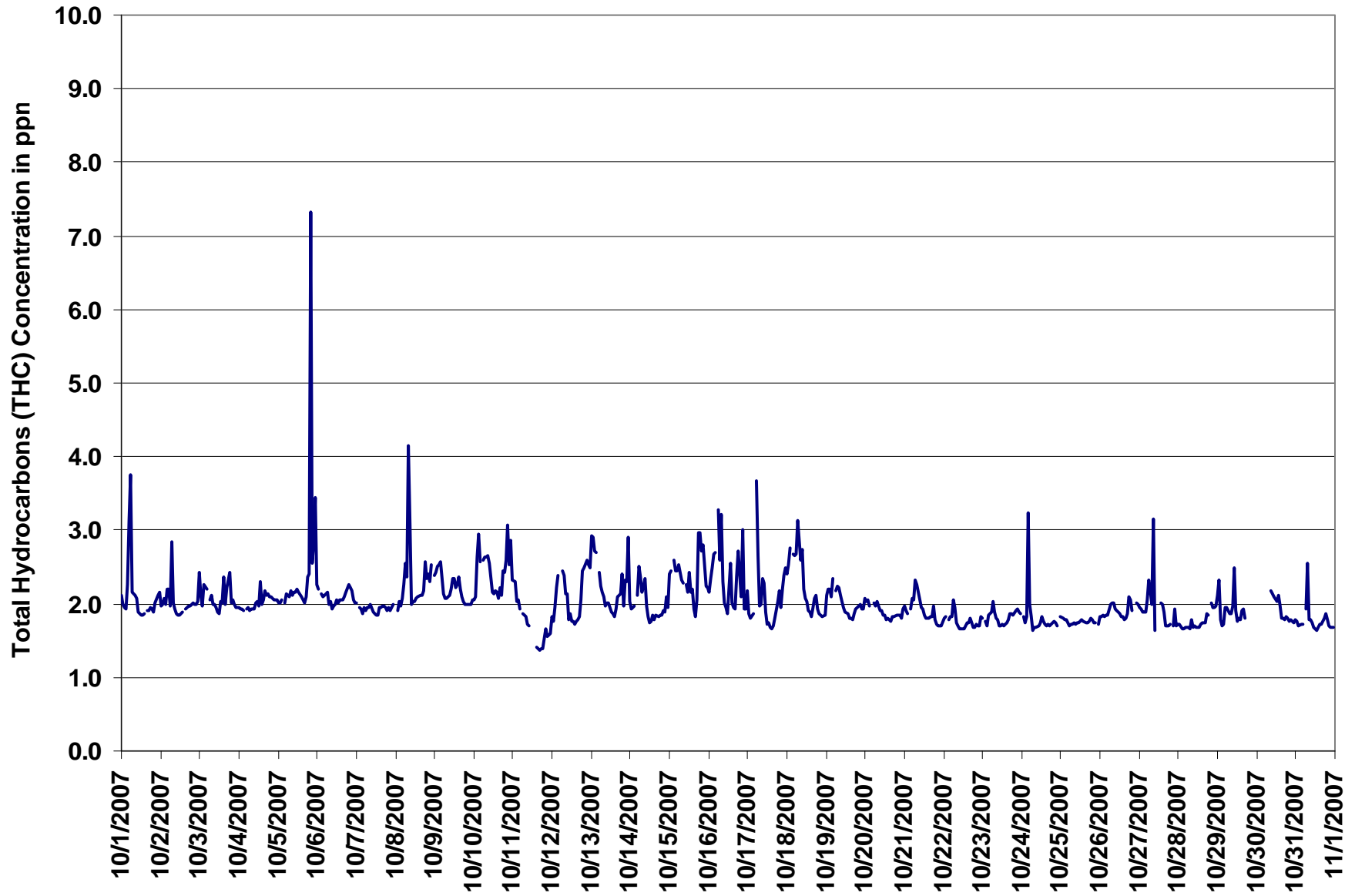
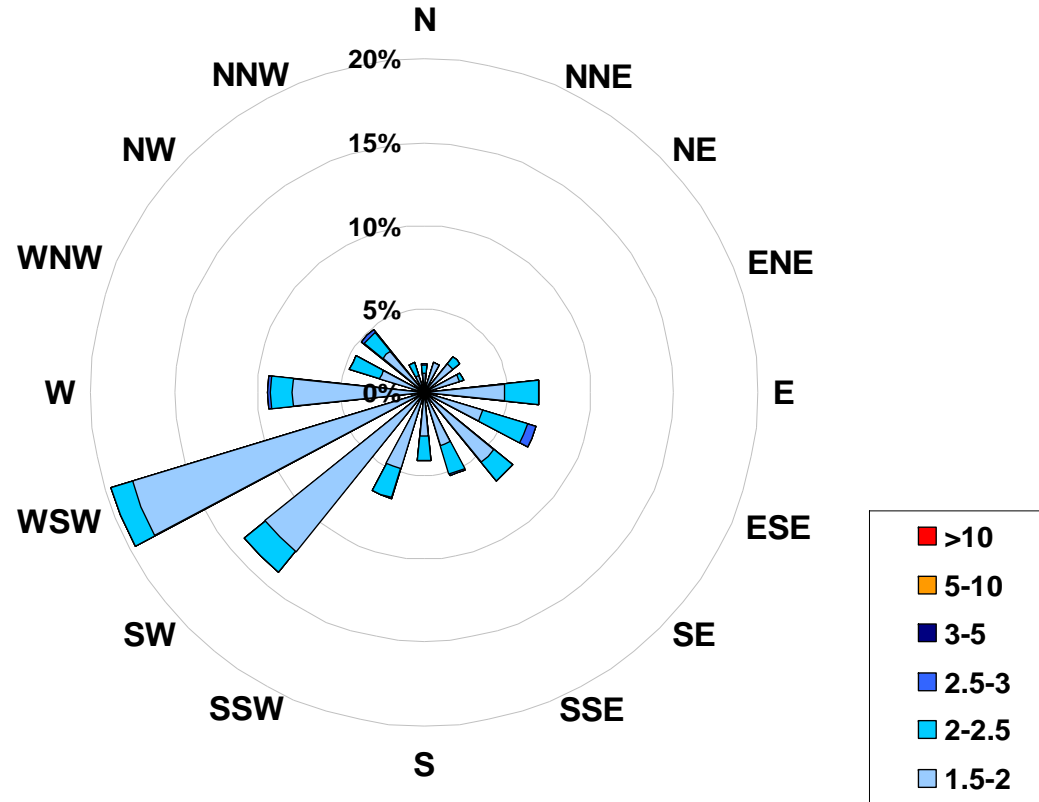


Figure 12. PASZA - Henry Pirker Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of THC in ppm			Frequency (hrs)
Range			
1.5	<	2	539
2	to	2.5	144
2.5	to	3	9
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			693

PASZA - Henry Pirker Total Reduced Sulphur Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

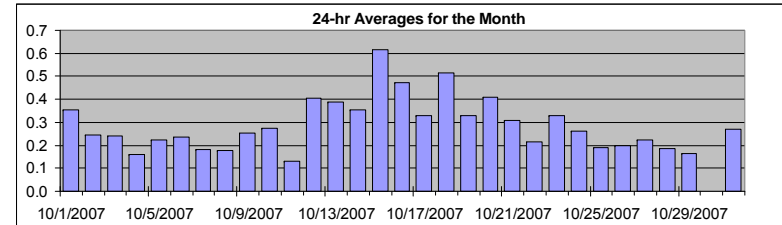
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: October 1, 2007 to November 1, 2007

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

Maximum 1-hr Average:	1.4	ppb	12-Oct	21:00 22:00
Maximum 24-hr Value:	0.6	ppb	15-Oct	



AIC Time:	32 hrs	Operational Time:	694 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	98.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.1	0.7	0.3	0.2	0.2	0.1	0.0	0.3 ppb	0.2 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-Oct-07	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.4	0.7	
2-Oct-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	0.2	0.4	
3-Oct-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	0.2	0.4	
4-Oct-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	0.2	0.2	
5-Oct-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	1	0.2	1.0	
6-Oct-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	0.2	0.4	
7-Oct-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	0.2	
8-Oct-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	0.2	0.4	
9-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
10-Oct-07	0	0	0	0	0	A	1	1	1	1	0	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0.3	0.9	
11-Oct-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
12-Oct-07	0	0	0	0	0	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0.4	1.4	
13-Oct-07	0	1	1	1	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8	
14-Oct-07	1	0	0	A	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8	
15-Oct-07	0	0	A	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	0	0.6	1.2	
16-Oct-07	0	1	1	1	1	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.2	
17-Oct-07	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0.3	0.6	
18-Oct-07	0	0	1	A	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.3	
19-Oct-07	0	0	0	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7	
20-Oct-07	0	0	1	0	A	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.4	0.8	
21-Oct-07	0	0	0	A	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8	
22-Oct-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	0.2	0.3	
23-Oct-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.3	0.5	
24-Oct-07	A	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	0.8	
25-Oct-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	0.2	0.3	
26-Oct-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	0.2	0.3	
27-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	P	P	0	0	0	0	0	0	0	A	0	0	0	0.2	0.3	
28-Oct-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	0.2	0.4	
29-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	N	N	N	N	0.2	0.3	
30-Oct-07	N	N	N	N	N	N	N	N	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N	0.3	0.3
31-Oct-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	0.3	0.4	
Hourly Avg	0.3	0.3	0.3	0.3	0.3	N	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
Hourly Max	0.5	0.8	1.2	0.7	0.8	0.9	1.2	1.3	1.3	1.3	1.1	1.2	1.1	0.6	0.5	0.6	0.4	0.3	0.4	0.7	0.7	0.8	1.4	0.7	1.0	0.3	0.4	

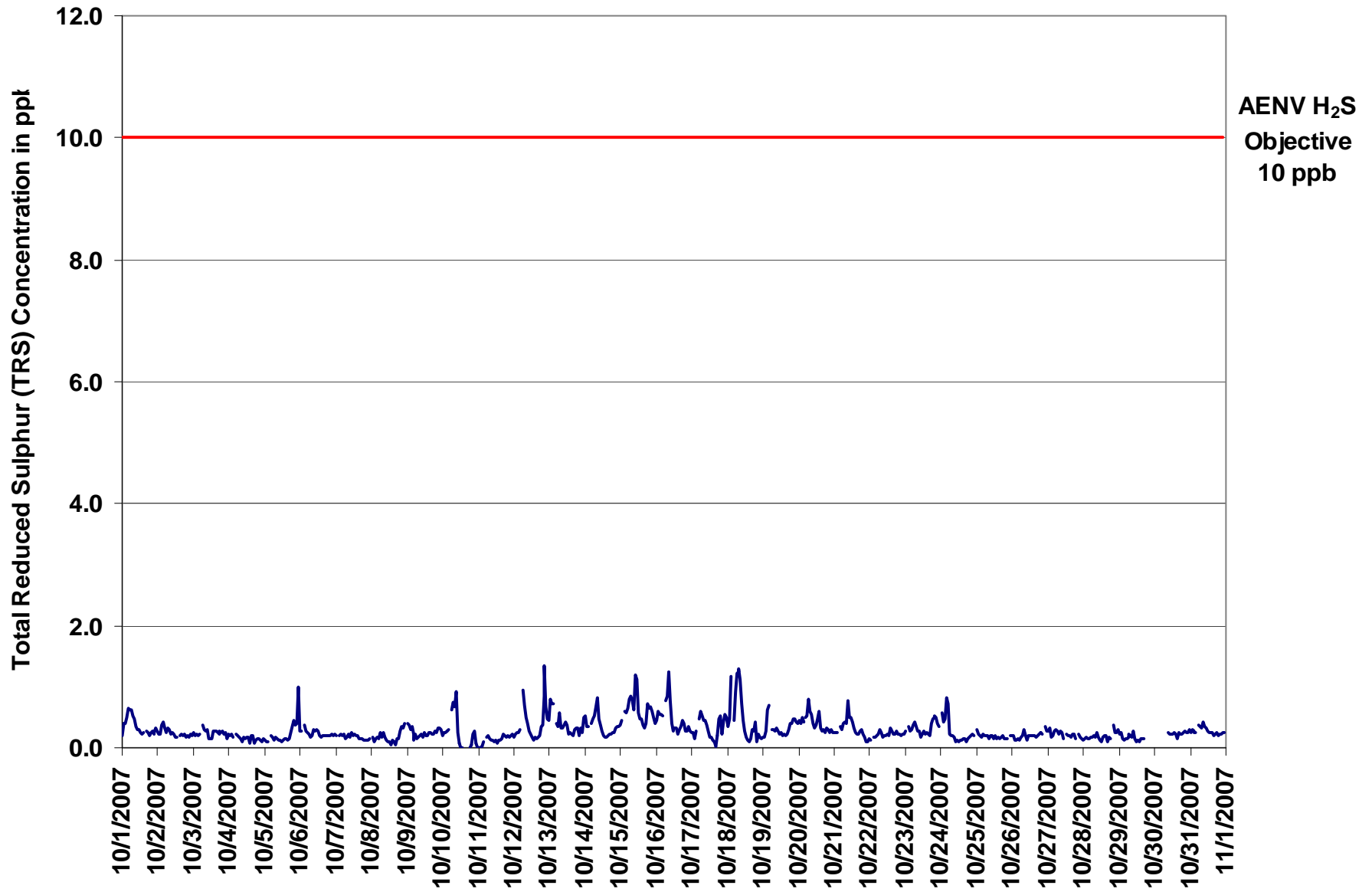


Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

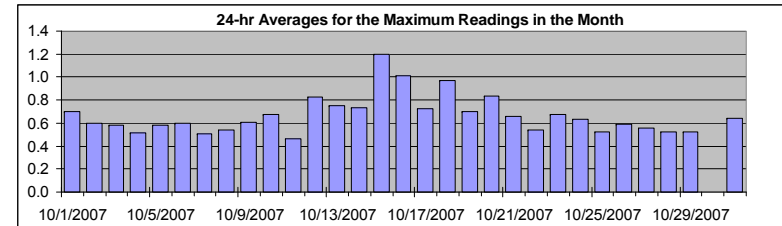
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	5.9	ppb	15-Oct	10:00 11:00
Maximum 24-hr Value:	1.2	ppb	15-Oct	



AIC Time:	32 hrs	Operational Time:	694 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	98.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.8	1.1	0.7	0.6	0.5	0.4	0.4	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-Oct-07	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0	1	1	1	1	1	0.7	1.2	
2-Oct-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0	1	1	1	0	0.6	0.8
3-Oct-07	1	1	1	0	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0.6	0.8	
4-Oct-07	1	1	1	0	A	1	0	0	0	0	1	1	1	0	0	0	1	1	1	1	1	1	0	1	0.5	0.7	
5-Oct-07	0	0	0	A	1	1	0	0	0	0	1	0	0	0	0	1	0	1	1	1	1	1	1	2	0.6	1.7	
6-Oct-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0.6	0.8	
7-Oct-07	0	A	1	1	1	1	0	0	1	1	1	1	0	1	1	1	0	0	1	0	0	0	1	0	0.5	0.6	
8-Oct-07	A	1	0	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	A	0.5	0.9	
9-Oct-07	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8	
10-Oct-07	1	1	1	1	1	A	1	1	1	1	1	1	0	0	C	C	C	A	0	0	1	1	0	0	0.7	1.2	
11-Oct-07	0	0	0	0	0	A	1	1	0	0	0	1	0	0	1	0	0	1	0	1	0	0	1	1	0.5	0.7	
12-Oct-07	0	1	1	1	1	A	1	1	1	1	1	1	1	0	1	1	0	1	1	1	2	2	1	1	0.8	2.1	
13-Oct-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.2	
14-Oct-07	1	1	1	A	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0.7	1.2	
15-Oct-07	1	1	A	1	1	1	1	1	1	1	6	2	1	1	1	1	1	1	1	1	1	1	1	1	1.2	5.9	
16-Oct-07	1	1	1	1	1	A	1	1	3	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	3.6	
17-Oct-07	1	1	0	1	A	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	0.7	1.0	
18-Oct-07	1	1	2	A	1	1	2	2	2	2	1	1	1	1	0	0	0	1	1	1	0	1	0	0	1.0	1.8	
19-Oct-07	0	0	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.2	
20-Oct-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	0.8	1.5	
21-Oct-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0	0	0	0.7	1.4	
22-Oct-07	0	0	A	1	1	1	1	1	1	0	1	0	1	0	1	1	1	0	1	1	1	1	0	0	0.5	0.8	
23-Oct-07	1	A	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9	
24-Oct-07	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0	1	1	1	1	A	0.6	1.3	
25-Oct-07	1	1	1	0	1	0	0	0	1	1	1	1	1	1	0	1	0	0	1	1	0	1	A	1	0.5	0.6	
26-Oct-07	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.6	0.8	
27-Oct-07	1	1	1	1	1	1	1	1	1	1	1	P	P	1	1	0	0	1	1	1	A	1	0	0	0.6	0.7	
28-Oct-07	0	0	1	1	1	0	1	0	0	1	0	1	1	1	1	1	0	1	0	A	1	1	0	1	0.5	0.7	
29-Oct-07	1	1	0	0	1	0	1	1	0	1	1	1	0	1	0	1	0	1	A	0	N	N	N	N	0.5	0.7	
30-Oct-07	N	N	N	N	N	N	N	N	N	1	0	1	1	1	1	1	1	1	0	0	1	1	1	1	N	0.6	0.6
31-Oct-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.6	0.9	
Hourly Avg	0.6	0.7	0.7	0.7	0.7	N	0.8	0.8	0.8	0.8	0.8	0.6	0.6	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.7	0.7	0.6	0.6			
Hourly Max	0.9	1.3	1.8	1.2	1.3	1.4	1.8	1.6	3.4	3.6	5.9	1.6	1.1	1.1	1.5	0.8	0.7	0.8	1.3	1.3	2.0	2.1	1.3	1.7			

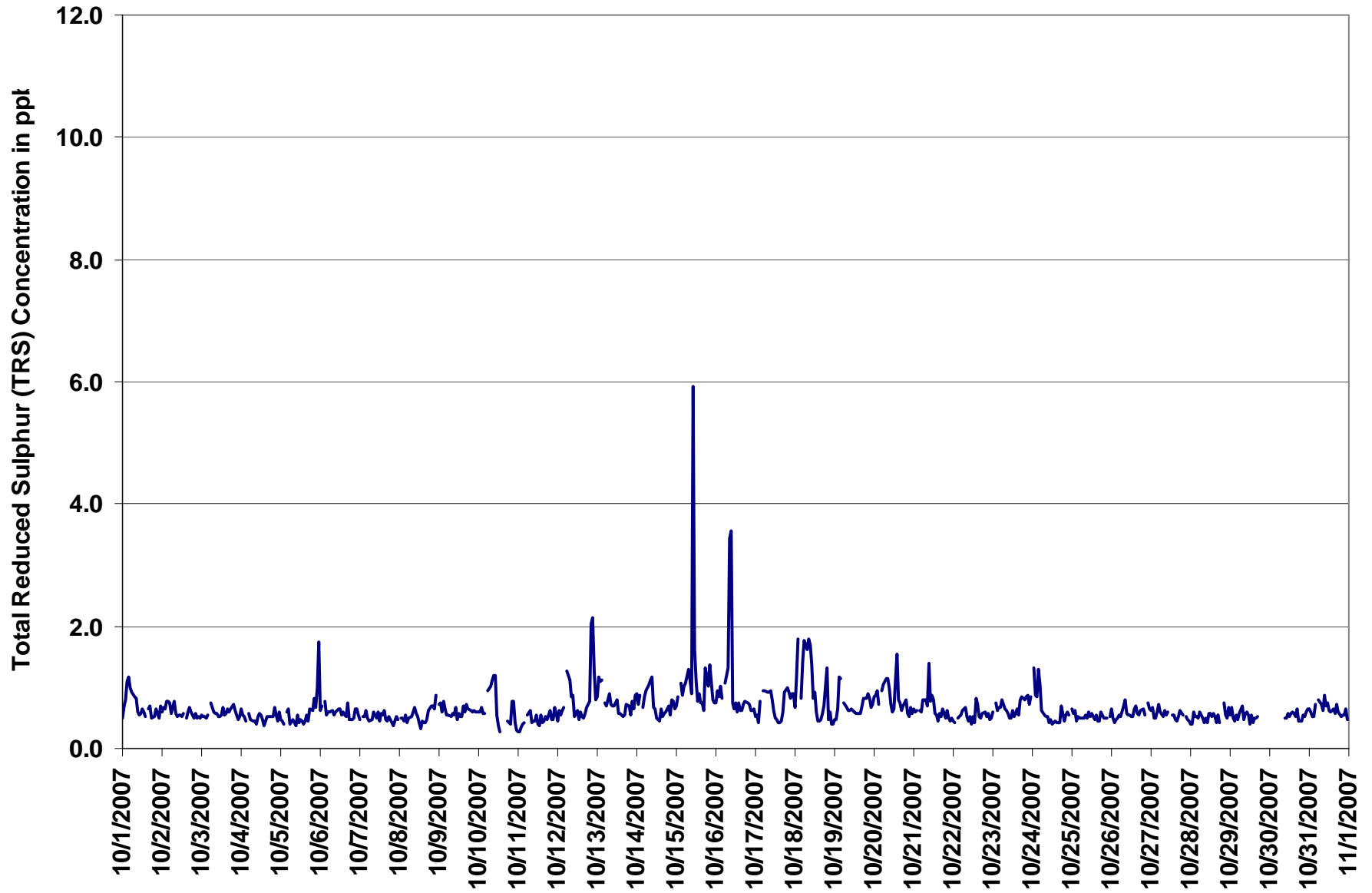
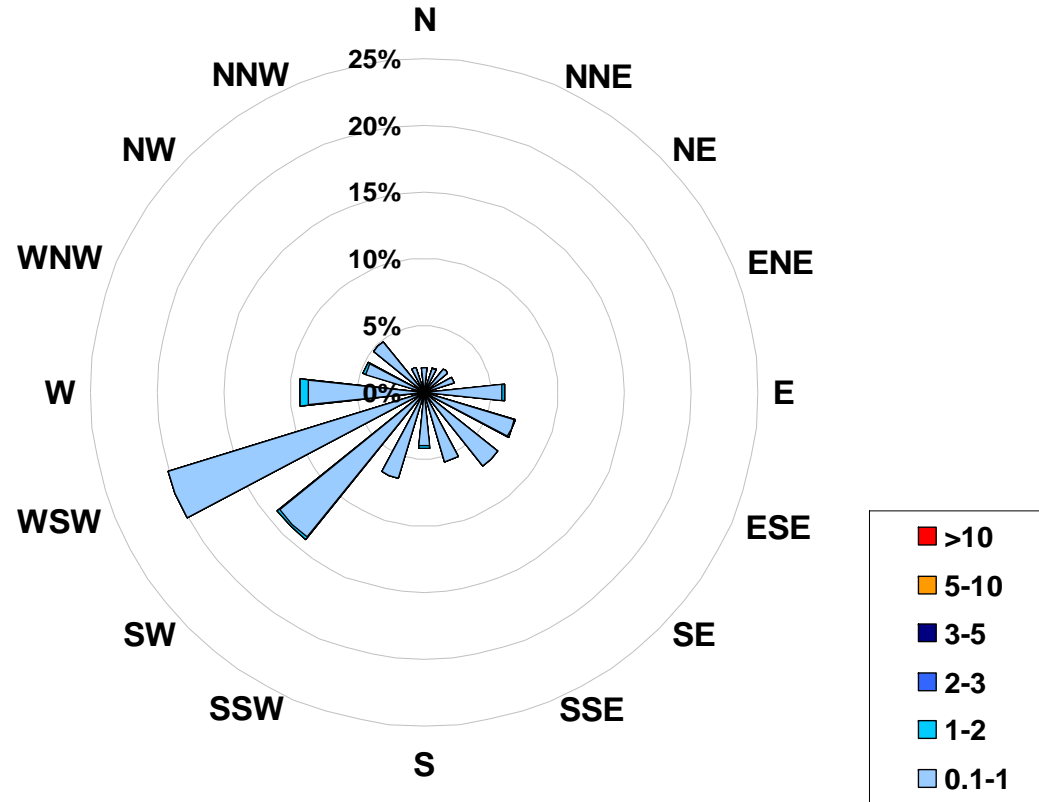


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	685
1	to	2	9
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			694

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

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

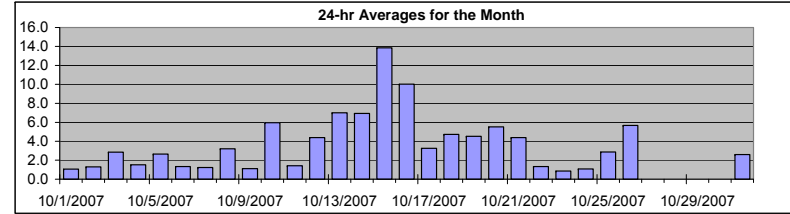
Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2007 to November 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:	38.2 µg/m ³ 26-Oct 19:00 20:00
Maximum 24-hr Value:	13.9 µg/m ³ 15-Oct

AIC Time:	0 hrs	Operational Time:	664 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	90.2%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	19.7	12.2	5.1	2.4	0.9	0.0	0.0	3.8 2 µg/m ³	2.9 µg/m ³



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
1-Oct-07	7	1	0	0	1	1	2	2	2	2	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1.1	7.1
2-Oct-07	0	0	0	0	0	1	2	2	2	2	2	1	1	0	1	1	1	2	1	2	3	3	2	2	2	1.3	2.8
3-Oct-07	2	2	2	2	2	3	4	4	4	4	4	3	3	4	2	3	2	4	5	5	3	1	1	0	2.8	5.0	
4-Oct-07	1	1	1	1	1	2	1	2	1	1	1	2	2	2	1	2	2	2	2	3	2	1	1	1	1.5	2.8	
5-Oct-07	1	0	0	1	0	3	2	2	1	1	2	2	2	3	0	0	0	1	6	8	10	9	6	3	2.6	10.0	
6-Oct-07	0	2	3	2	2	1	3	3	2	1	1	1	0	1	1	1	1	1	1	0	4	2	0	0	1.3	3.7	
7-Oct-07	1	0	0	0	0	0	1	1	1	1	2	1	2	0	5	5	0	2	3	1	2	0	1	1	1.2	4.9	
8-Oct-07	1	1	1	1	2	2	3	3	2	1	0	0	0	0	0	1	1	1	4	8	12	12	10	9	3.2	12.4	
9-Oct-07	5	2	1	1	0	0	0	1	0	0	1	1	1	1	1	1	1	1	0	1	2	1	2	2	1.1	4.7	
10-Oct-07	2	3	1	1	3	5	3	8	12	12	6	3	4	4	4	5	5	6	10	12	13	8	7	5	6.0	12.7	
11-Oct-07	3	4	2	3	2	2	3	2	3	2	1	3	C	C	0	0	0	0	0	1	0	1	0	0	1.4	3.6	
12-Oct-07	2	0	0	0	1	0	2	4	8	4	2	3	1	0	0	1	1	3	11	15	17	14	9	9	4.4	16.9	
13-Oct-07	12	11	8	5	4	3	4	6	3	3	5	8	9	7	6	5	8	10	12	14	3	5	7	9	7.0	14.0	
14-Oct-07	7	6	4	4	4	5	6	9	12	12	12	4	1	3	3	3	7	13	9	9	9	10	9	7	6.9	13.4	
15-Oct-07	11	10	10	10	9	9	14	16	17	14	13	14	17	11	11	4	7	13	20	24	21	21	22	16	13.9	23.8	
16-Oct-07	13	10	9	9	8	9	10	15	19	11	7	8	9	11	12	7	8	12	22	15	8	6	4	0	10.0	21.9	
17-Oct-07	0	0	0	0	1	4	5	1	3	4	6	4	2	2	0	0	0	2	10	9	3	6	9	9	3.3	9.6	
18-Oct-07	5	6	6	6	5	7	11	13	C	12	1	3	5	1	0	0	1	7	8	5	2	2	1	2	4.7	13.4	
19-Oct-07	4	5	5	4	4	3	3	5	3	3	3	4	4	3	3	3	2	6	9	9	8	6	5	6	4.5	8.9	
20-Oct-07	7	6	6	6	5	5	6	8	10	9	7	6	6	5	5	4	4	6	5	4	4	3	4	4	5.5	10.0	
21-Oct-07	4	4	4	4	4	5	5	6	6	9	8	7	8	5	5	3	5	5	5	2	0	0	0	0	4.4	9.3	
22-Oct-07	0	0	1	0	1	1	4	5	1	2	2	2	0	0	2	3	2	1	1	0	1	1	2	1	1.3	4.8	
23-Oct-07	2	1	1	1	2	2	2	0	0	0	0	1	0	0	2	0	0	3	1	0	1	1	0	0	0.9	3.3	
24-Oct-07	0	0	0	0	1	6	2	0	0	0	1	0	0	0	0	0	2	0	1	3	1	1	3	3	1.1	5.8	
25-Oct-07	4	4	3	3	3	2	2	3	4	3	2	1	1	1	1	1	2	3	4	6	5	3	3	4	2.9	6.2	
26-Oct-07	4	5	3	2	1	1	2	3	5	2	0	0	2	1	2	2	5	7	18	38	14	5	4	8	5.7	38.2	
27-Oct-07	5	4	4	3	5	4	6	3	6	6	6	P	P	P	N	N	N	N	N	N	N	N	N	N	N	N	6.3
28-Oct-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
29-Oct-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
30-Oct-07	N	N	N	N	N	N	N	N	N	N	N	C	C	C	C	0	0	0	0	0	0	2	2	3	N	2.6	
31-Oct-07	4	3	2	1	1	1	4	4	4	4	6	3	3	3	3	2	2	1	M	2	1	2	1	3	2	2.6	5.7
Hourly Avg	3.8	3.2	2.8	2.5	2.6	3.0	4.0	4.7	5.0	4.6	3.5	3.1	3.0	2.7	2.6	2.1	2.4	4.1	6.1	7.0	5.3	4.7	4.2	3.8			
Hourly Max	13.3	10.7	9.7	9.7	9.1	8.6	13.9	16.3	19.2	13.5	13.0	14.2	17.3	11.4	11.7	7.3	8.0	13.4	21.9	38.2	20.8	21.5	21.5	15.7			

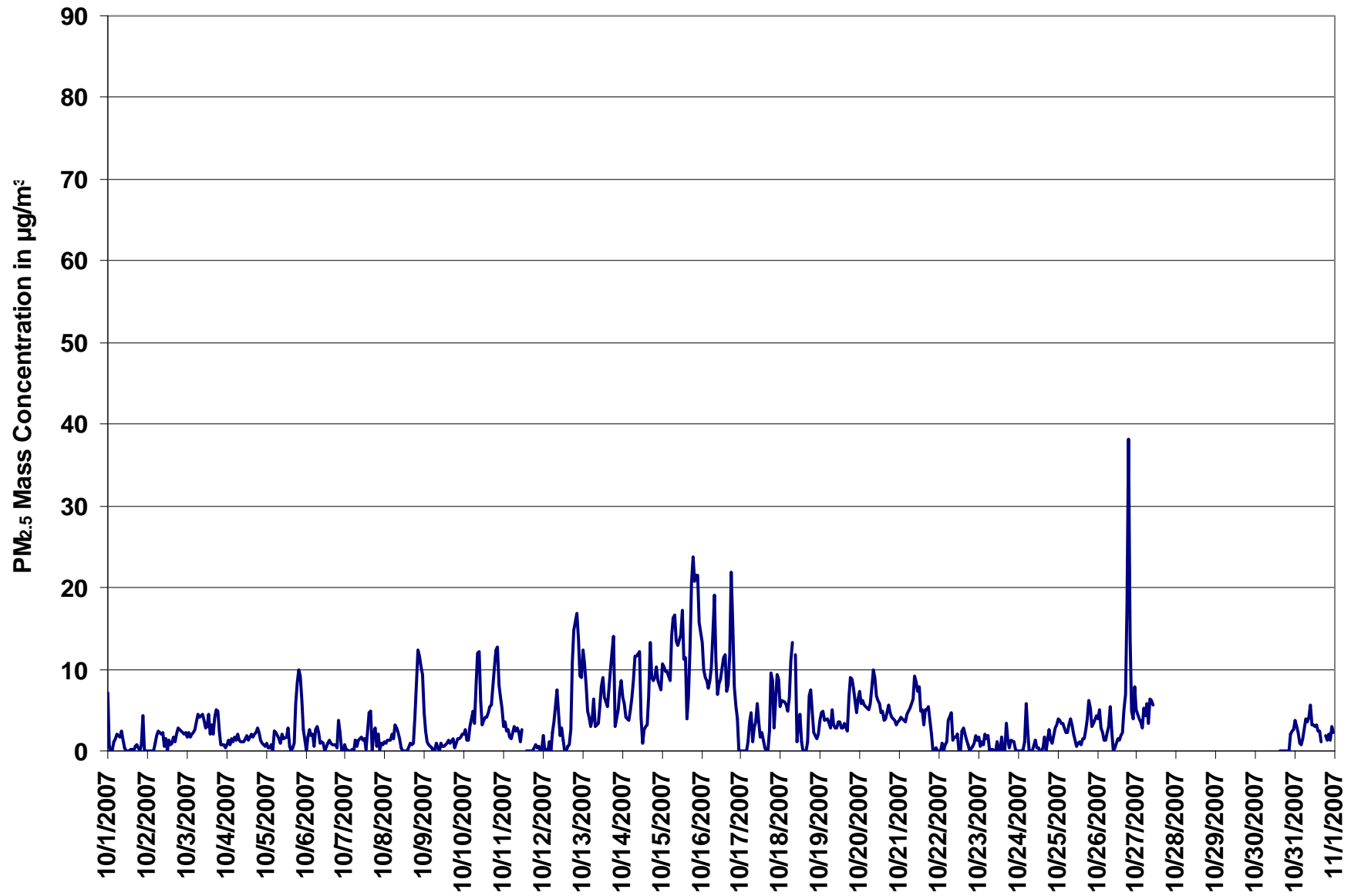


Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

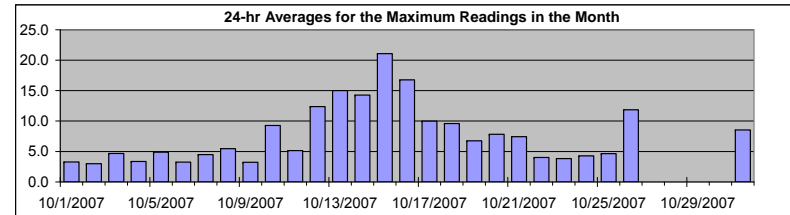
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	74.1	µg/m ³	26-Oct	19:00 20:00
Maximum 24-hr Value:	21.1	µg/m ³	15-Oct	



AIC Time:	0 hrs	Operational Time:	665 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	90.2%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	28.3	20.1	10.0	5.5	3.3	1.8	0.9	7.7 / 5 µg/m ³	6.5 µg/m ³

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00				
1-Oct-07	22	2	1	2	2	3	4	4	5	2	2	1	2	1	2	2	1	2	3	1	2	9	2	1	3.3	22.0		
2-Oct-07	1	1	1	2	1	3	4	5	3	5	3	5	1	3	3	2	3	3	4	4	4	3	3	4	3.0	5.2		
3-Oct-07	3	4	3	3	3	4	5	6	5	6	5	4	5	7	5	5	4	8	6	8	5	2	2	2	4.7	8.1		
4-Oct-07	2	3	2	3	3	3	3	4	3	2	3	3	3	2	4	4	4	4	4	7	6	3	4	2	3.4	6.5		
5-Oct-07	2	2	2	3	1	5	4	4	3	3	4	3	4	6	2	1	2	3	11	14	14	12	8	5	4.9	14.1		
6-Oct-07	2	2	4	4	3	2	4	6	4	3	3	2	1	4	3	2	3	2	4	6	5	2	1	3.3	6.4			
7-Oct-07	3	3	2	1	2	2	2	2	3	3	3	3	4	2	23	15	2	6	8	3	5	4	3	3	4.5	23.2		
8-Oct-07	3	2	3	4	3	4	5	6	5	3	3	2	1	2	2	3	2	3	6	12	16	15	14	13	5.5	15.7		
9-Oct-07	8	5	3	3	3	2	1	2	2	4	3	2	3	3	3	4	4	4	2	3	3	3	3	4	3.2	7.9		
10-Oct-07	4	5	4	5	7	8	6	12	18	19	12	5	6	5	5	7	8	7	14	16	17	11	10	10	9.3	18.9		
11-Oct-07	6	5	4	5	3	3	4	4	5	4	3	8	C	C	4	6	3	4	6	7	7	7	6	8	5.1	8.1		
12-Oct-07	9	8	7	7	9	8	10	14	15	15	8	9	9	6	5	7	7	12	19	28	27	22	19	18	12.4	28.1		
13-Oct-07	21	21	16	17	13	12	13	14	12	10	12	18	18	12	13	12	14	18	22	22	9	12	13	15	15.0	22.4		
14-Oct-07	13	11	9	10	11	10	14	15	20	21	21	13	9	10	11	10	16	25	20	16	14	16	15	13	14.3	24.5		
15-Oct-07	18	15	15	16	16	14	22	25	23	18	21	23	29	18	17	13	21	19	31	28	27	29	28	20	21.1	31.2		
16-Oct-07	19	15	14	15	13	13	15	21	26	16	12	15	16	18	19	13	14	18	31	29	17	12	15	5	16.8	31.3		
17-Oct-07	4	4	4	4	10	11	14	12	10	10	14	9	7	10	6	5	5	9	17	17	10	13	17	14	10.0	17.5		
18-Oct-07	13	14	13	12	11	13	18	23	C	19	4	6	11	6	3	4	4	12	11	7	4	4	4	4	9.6	22.9		
19-Oct-07	7	7	7	6	6	5	5	7	6	5	5	6	5	5	7	4	8	11	12	10	8	6	11	6.8	11.8			
20-Oct-07	11	9	8	8	7	7	8	11	13	12	9	8	8	6	7	6	7	8	7	7	7	6	5	5	7.8	12.8		
21-Oct-07	6	7	6	5	7	6	8	9	9	12	12	12	13	7	8	9	9	8	9	6	2	3	3	2	7.4	12.7		
22-Oct-07	3	1	5	2	3	4	7	10	5	4	3	4	3	2	6	6	4	5	3	3	3	4	5	4.0	9.8			
23-Oct-07	4	3	5	3	5	4	6	3	3	2	1	4	3	2	8	3	3	9	3	3	4	5	4	2	3.8	9.1		
24-Oct-07	1	1	0	3	5	11	8	5	2	4	4	4	2	3	4	4	5	2	11	10	3	4	5	5	4.3	11.0		
25-Oct-07	5	6	5	5	4	4	4	5	5	4	4	3	3	3	2	4	4	4	6	7	7	5	6	6	4.7	7.3		
26-Oct-07	6	9	5	6	4	3	4	5	7	7	3	3	3	5	5	4	7	9	61	74	25	7	10	11	11.9	74.1		
27-Oct-07	7	6	6	5	8	8	9	7	9	9	8	P	P	N	N	N	N	N	N	N	N	N	N	N	N	9.3	9.3	
28-Oct-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
29-Oct-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
30-Oct-07	N	N	N	N	N	N	N	N	N	N	N	N	C	C	C	2	3	5	5	5	6	7	9	8	N	8.6	8.6	
31-Oct-07	10	9	9	7	6	7	10	11	12	13	10	9	9	9	8	8	6	M	7	6	7	6	9	9	8.5	12.7		
Hourly Avg	7.6	6.4	5.9	5.9	6.1	6.4	7.8	9.0	8.7	8.4	6.9	6.8	6.9	6.1	6.6	6.0	6.1	8.1	12.1	12.8	9.6	8.4	8.2	7.4				
Hourly Max	22.0	20.8	16.4	16.7	16.2	14.3	21.9	24.6	25.7	21.4	20.9	22.9	29.2	18.1	23.2	14.7	21.2	24.5	60.5	74.1	27.3	28.9	27.7	20.2				

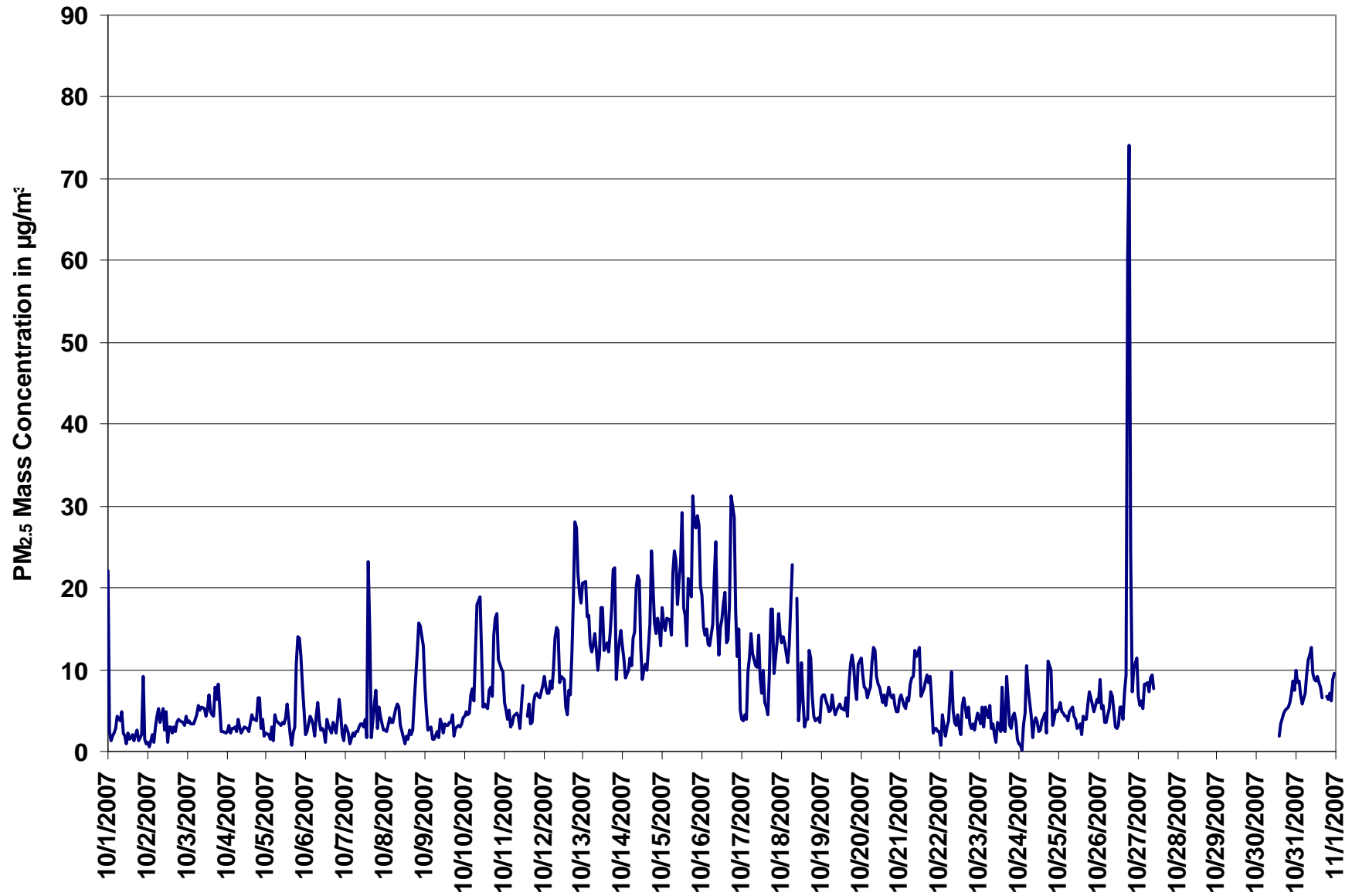
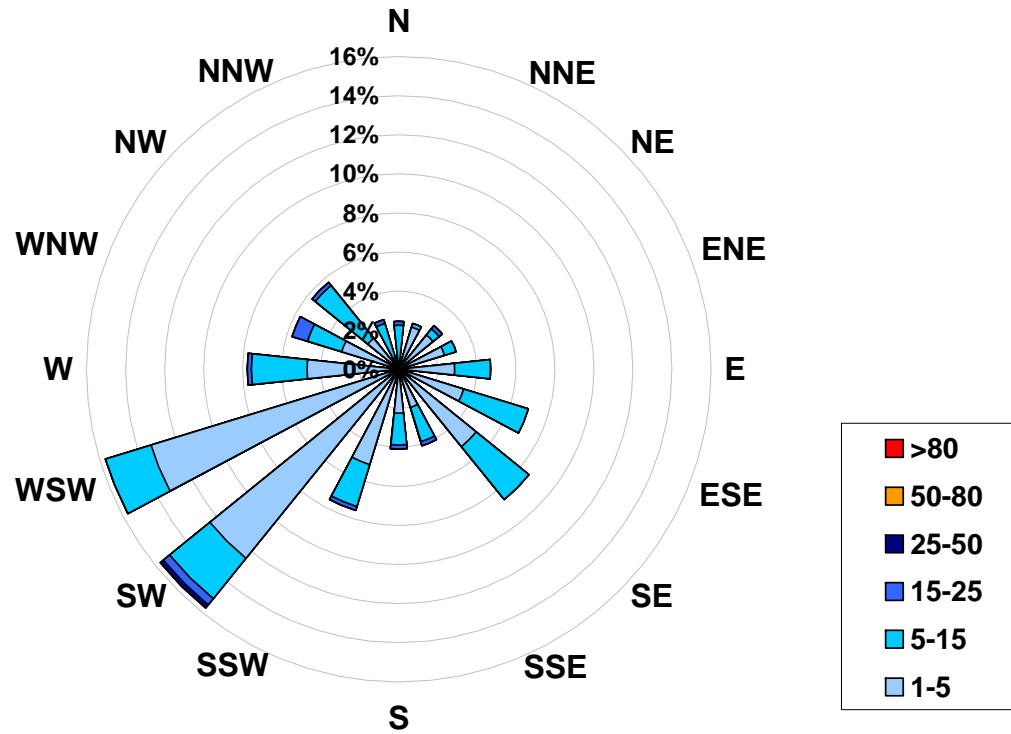


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 October 2007



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range		Frequency (hrs)	
1.0	< 5	489	
5	to 15	160	
15	to 25	14	
25	to 50	1	
50	to 80	0	
	> 80	0	
Total Non-Zero Values			664

PASZA - Henry Pirker Relative Humidity Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

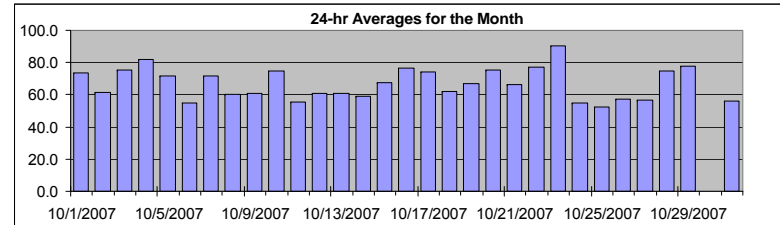
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	95.1	%	29-Oct	6:00 7:00
Maximum 24-hr Value:	90.4	%	23-Oct	



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
	94.7	92.2	79.5	66.9	54.7	39.6	34.9	66.6	66.9

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Oct-07	89	92	93	93	94	93	93	94	92	82	72	59	54	51	51	54	54	57	62	64	64	65	67	69	73.2	94.4
2-Oct-07	69	71	74	73	72	70	70	75	71	69	66	53	42	39	39	40	45	48	53	58	63	69	74	77	61.7	77.4
3-Oct-07	79	78	77	78	77	80	81	78	76	74	68	62	58	70	66	67	66	70	73	79	83	86	88	88	75.1	88.5
4-Oct-07	86	84	84	85	87	88	85	82	82	81	80	79	77	78	81	83	83	79	79	80	80	83	81	82	82.0	87.5
5-Oct-07	83	86	87	88	88	89	89	89	88	85	79	69	63	57	47	42	44	51	59	66	71	72	68	64	71.8	89.2
6-Oct-07	57	55	55	55	56	59	64	68	64	58	53	52	48	43	40	39	39	46	57	59	61	62	64	64	54.8	67.7
7-Oct-07	61	67	76	81	84	86	86	84	81	77	72	65	60	48	52	84	74	67	69	67	65	68	71	74	71.6	86.1
8-Oct-07	69	72	72	75	75	80	82	71	60	57	49	43	40	36	33	33	35	41	51	65	74	79	79	82	60.5	82.2
9-Oct-07	85	86	86	86	76	65	66	65	60	55	52	48	48	48	47	44	47	49	51	54	56	59	62	65	60.8	86.2
10-Oct-07	67	70	70	75	77	76	79	81	79	81	75	70	69	68	68	66	67	68	74	82	86	86	84	80	75.0	86.4
11-Oct-07	77	79	75	75	72	74	71	69	58	53	47	41	38	36	36	35	36	38	43	50	54	56	58	57	55.4	79.2
12-Oct-07	64	70	77	81	80	80	82	81	70	64	58	49	41	39	36	35	37	39	47	58	62	68	67	71	60.6	81.5
13-Oct-07	74	74	74	73	74	74	73	72	68	66	65	59	49	42	37	34	39	44	49	56	59	66	69	68	60.8	74.4
14-Oct-07	67	67	67	69	71	73	73	78	71	53	49	45	41	41	40	41	45	49	56	57	61	66	67	70	59.0	78.4
15-Oct-07	71	74	75	75	74	82	86	87	85	75	70	56	51	50	45	33	36	51	62	66	71	78	83	81	67.4	86.9
16-Oct-07	84	83	83	83	83	82	81	84	83	79	72	65	60	60	63	65	63	66	69	77	85	90	90	89	76.6	90.4
17-Oct-07	91	92	93	93	94	95	94	95	94	93	83	69	61	55	48	45	41	47	58	61	59	67	74	77	74.2	94.6
18-Oct-07	80	82	82	80	81	83	84	86	75	68	59	52	44	44	41	39	41	47	53	55	54	54	54	55	62.3	86.1
19-Oct-07	63	67	69	73	74	72	78	78	77	70	63	57	55	51	46	46	46	54	62	70	78	82	85	83	66.6	84.6
20-Oct-07	86	88	87	87	87	86	87	89	85	75	72	70	69	63	58	57	57	62	71	76	75	72	72	74	75.2	88.9
21-Oct-07	79	78	78	79	82	83	82	83	80	75	71	67	61	56	53	49	48	51	52	55	54	53	58	59	66.1	83.4
22-Oct-07	63	64	61	66	67	69	71	66	63	65	66	66	75	82	83	88	91	91	91	92	92	92	92	92	77.1	92.3
23-Oct-07	91	91	90	89	92	93	93	93	93	91	89	87	86	86	86	86	86	87	89	91	92	94	94	92	90.4	94.5
24-Oct-07	87	82	77	71	84	87	79	72	67	52	49	46	44	39	30	29	33	36	38	45	44	42	43	44	55.0	87.0
25-Oct-07	49	51	55	59	61	60	60	61	59	54	48	41	38	38	37	40	39	47	54	58	58	62	63	63	52.2	63.4
26-Oct-07	61	60	63	68	71	66	70	68	67	59	55	49	47	45	43	41	42	49	55	58	59	60	59	61	57.3	70.5
27-Oct-07	59	60	64	64	67	65	66	57	58	51	48	P	44	43	42	44	48	53	53	58	63	63	65	70	56.8	70.4
28-Oct-07	70	68	69	70	70	72	75	74	72	71	65	65	64	61	65	65	68	78	88	91	93	94	94	95	74.8	94.8
29-Oct-07	95	95	95	95	95	95	95	95	94	92	89	81	61	52	51	51	51	54	60	64	N	N	N	N	77.9	95.1
30-Oct-07	N	N	N	N	N	N	N	N	N	63	57	54	49	46	45	45	48	53	58	59	58	59	58	56	N	62.7
31-Oct-07	53	53	54	56	57	59	63	60	61	60	55	49	44	39	40	44	49	55	61	66	68	67	65	65	55.9	67.6
Hourly Avg	73.6	74.7	75.5	76.5	77.3	77.9	78.6	77.8	74.4	69.3	64.4	58.9	54.2	51.8	50.0	50.4	51.5	55.8	61.2	65.7	68.1	70.5	71.5	72.3		
Hourly Max	94.8	95.0	95.0	94.9	94.7	95.0	95.1	94.6	94.3	92.7	89.1	86.7	86.3	86.1	86.3	88.0	90.7	91.3	91.4	92.0	93.5	94.5	94.5	94.8		

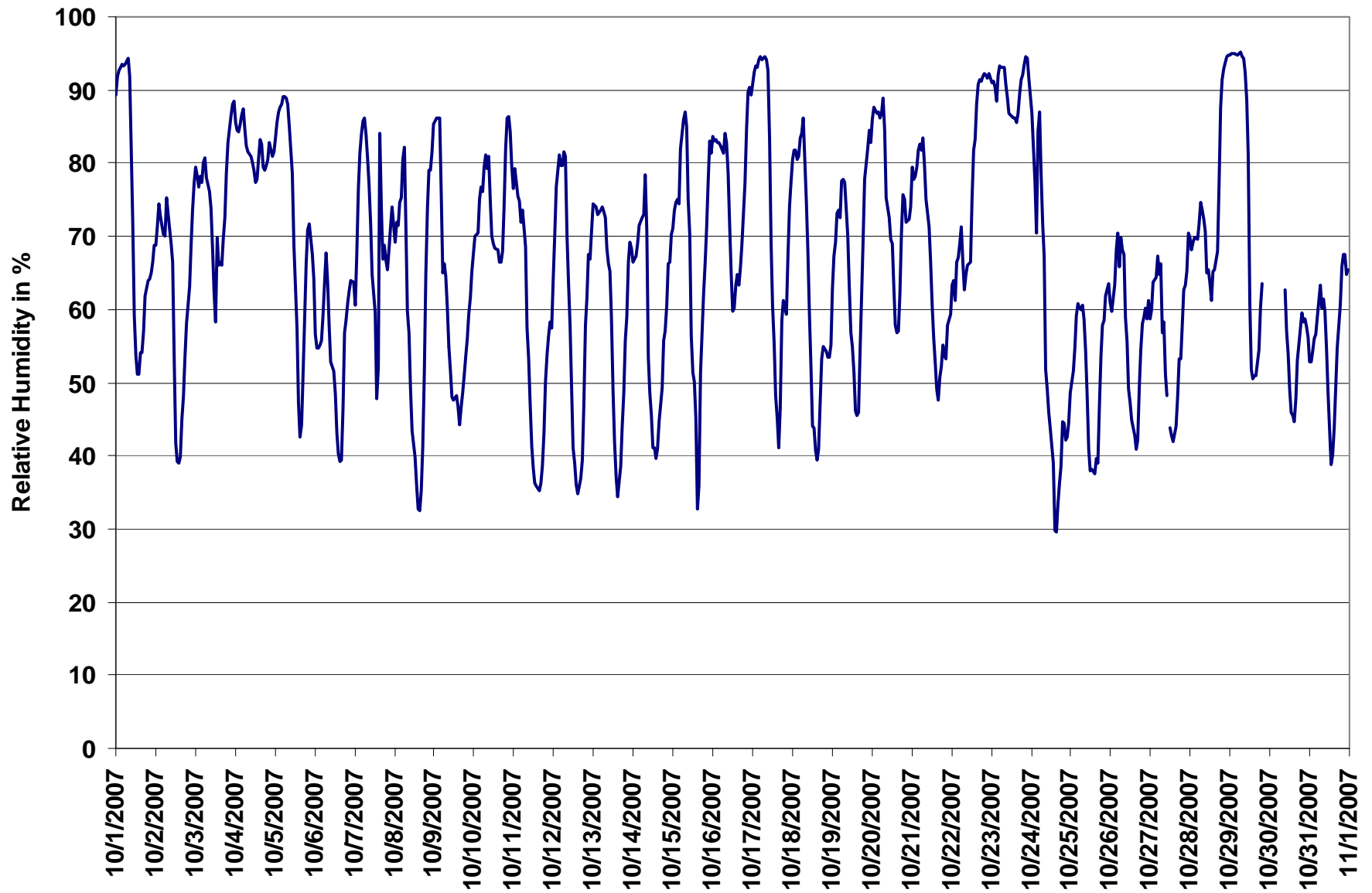


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

PASZA - Henry Pirker Temperature Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

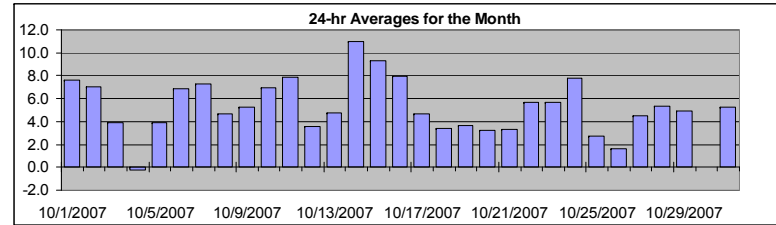
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	18.7 °C	15-Oct	15:00 16:00
Maximum 24-hr Value:	11.0 °C	14-Oct	



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
	16.2	11.9	8.0	5.1	2.4	-1.3	-2.8	5.3 °C	5.1 °C

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Oct-07	6	5	5	4	4	4	4	3	5	7	9	12	13	12	12	12	11	10	9	9	8	8	7	6	7.6	12.5	
2-Oct-07	6	6	5	5	5	5	6	4	6	6	7	10	11	12	12	11	11	10	8	7	6	5	3	2	7.0	11.8	
3-Oct-07	1	1	2	1	1	1	1	2	4	5	7	7	9	7	6	7	7	5	5	4	4	3	2	1	3.9	8.9	
4-Oct-07	1	0	-1	-1	-2	-2	-2	-2	-2	-1	-1	0	0	1	1	1	1	1	1	1	1	0	0	0	-0.2	0.9	
5-Oct-07	1	1	1	0	0	0	0	0	0	0	2	5	7	8	10	10	10	9	7	5	5	4	4	4	3.9	10.4	
6-Oct-07	4	4	4	3	4	4	4	4	6	9	10	10	10	11	11	11	11	10	7	7	6	5	5	5	6.8	11.5	
7-Oct-07	5	5	4	4	4	4	4	4	5	6	8	11	13	17	16	9	9	9	8	8	7	6	5	4	7.3	16.6	
8-Oct-07	4	3	2	2	1	0	-1	1	4	6	8	9	11	12	12	12	11	9	6	3	1	-1	-1	-2	4.7	12.4	
9-Oct-07	-3	-4	-5	-4	-2	0	0	0	2	4	5	7	9	10	11	11	11	11	11	11	11	10	10	9	5.2	11.4	
10-Oct-07	9	9	7	3	3	7	3	3	4	4	8	9	9	10	10	10	10	10	9	7	6	5	5	5	6.9	10.5	
11-Oct-07	5	4	5	5	5	4	5	5	8	9	11	12	12	13	13	13	12	11	9	7	6	5	4	4	7.8	12.8	
12-Oct-07	2	1	-1	-2	-2	-2	-3	-3	0	4	6	9	11	11	11	11	10	9	6	3	2	1	1	0	3.6	11.2	
13-Oct-07	-1	-1	-1	-1	-1	-1	-1	-1	0	1	2	5	9	11	13	14	13	11	9	8	9	6	6	6	4.7	13.9	
14-Oct-07	7	7	7	7	6	6	6	5	8	13	15	16	17	17	17	17	16	14	12	12	11	10	9	9	11.0	17.4	
15-Oct-07	8	8	8	7	7	5	3	3	5	8	9	14	15	16	16	19	17	14	11	9	8	5	4	4	9.3	18.7	
16-Oct-07	4	5	5	5	5	5	6	5	6	7	9	10	12	12	12	12	12	11	10	9	9	8	7	5	7.9	12.1	
17-Oct-07	4	3	3	2	1	1	0	0	1	1	5	8	10	12	12	12	12	9	6	4	4	2	1	0	4.6	12.3	
18-Oct-07	-2	-2	-2	-2	-2	-3	-3	-4	-1	2	6	8	10	10	10	10	9	7	6	5	5	4	4	3	3.4	10.3	
19-Oct-07	2	2	2	1	1	1	0	0	0	3	5	7	8	9	10	10	9	6	4	3	2	2	1	1	3.6	10.0	
20-Oct-07	0	-1	-1	0	0	0	0	-1	1	4	6	6	7	7	9	7	8	6	5	4	3	3	2	2	3.2	8.6	
21-Oct-07	0	0	-1	-1	-2	-2	-1	-2	-1	1	2	3	5	6	7	8	8	7	7	7	8	8	8	7	3.4	8.1	
22-Oct-07	6	6	7	6	6	5	5	6	7	7	8	7	6	6	6	6	5	5	4	4	4	4	4	4	5.6	7.6	
23-Oct-07	5	4	5	5	4	4	4	4	3	4	5	7	7	7	8	8	8	7	6	6	6	6	7	7	5.7	7.9	
24-Oct-07	8	9	10	11	7	7	11	10	9	10	10	9	8	9	10	9	8	7	6	4	4	4	4	4	7.8	11.4	
25-Oct-07	3	2	2	1	1	1	1	1	1	3	4	6	6	6	6	6	6	4	2	1	1	0	0	0	2.7	6.4	
26-Oct-07	0	1	-1	-1	-2	-2	-3	-3	-2	0	1	2	4	6	8	8	7	5	3	2	2	1	2	1	1.6	7.8	
27-Oct-07	1	1	0	-1	-1	-1	-1	1	1	4	8	P	10	12	11	11	9	8	8	7	5	5	4	3	4.5	11.6	
28-Oct-07	3	4	4	3	4	4	3	4	5	6	7	8	8	9	8	8	7	6	5	5	5	5	4	4	5.4	8.7	
29-Oct-07	4	4	4	4	4	4	4	4	4	4	5	7	7	7	7	7	6	5	4	3	N	N	N	N	5.0	7.3	
30-Oct-07	N	N	N	N	N	N	N	N	N	N	3	4	5	6	7	7	6	6	5	3	3	4	4	4	N	7.1	
31-Oct-07	5	5	5	5	4	4	2	3	3	4	6	8	9	11	10	9	8	6	5	4	3	3	3	2	5.3	10.8	
Hourly Avg	3.3	3.1	2.7	2.4	2.2	2.1	1.9	1.9	3.0	4.6	6.3	7.9	9.0	9.7	10.0	9.9	9.3	8.0	6.5	5.5	5.1	4.4	4.0	3.5			
Hourly Max	8.9	8.9	9.8	11.4	7.3	6.9	10.8	10.1	9.0	12.8	14.8	15.7	16.7	16.7	17.4	18.7	17.0	14.2	12.3	11.8	11.1	10.3	10.0	9.3			

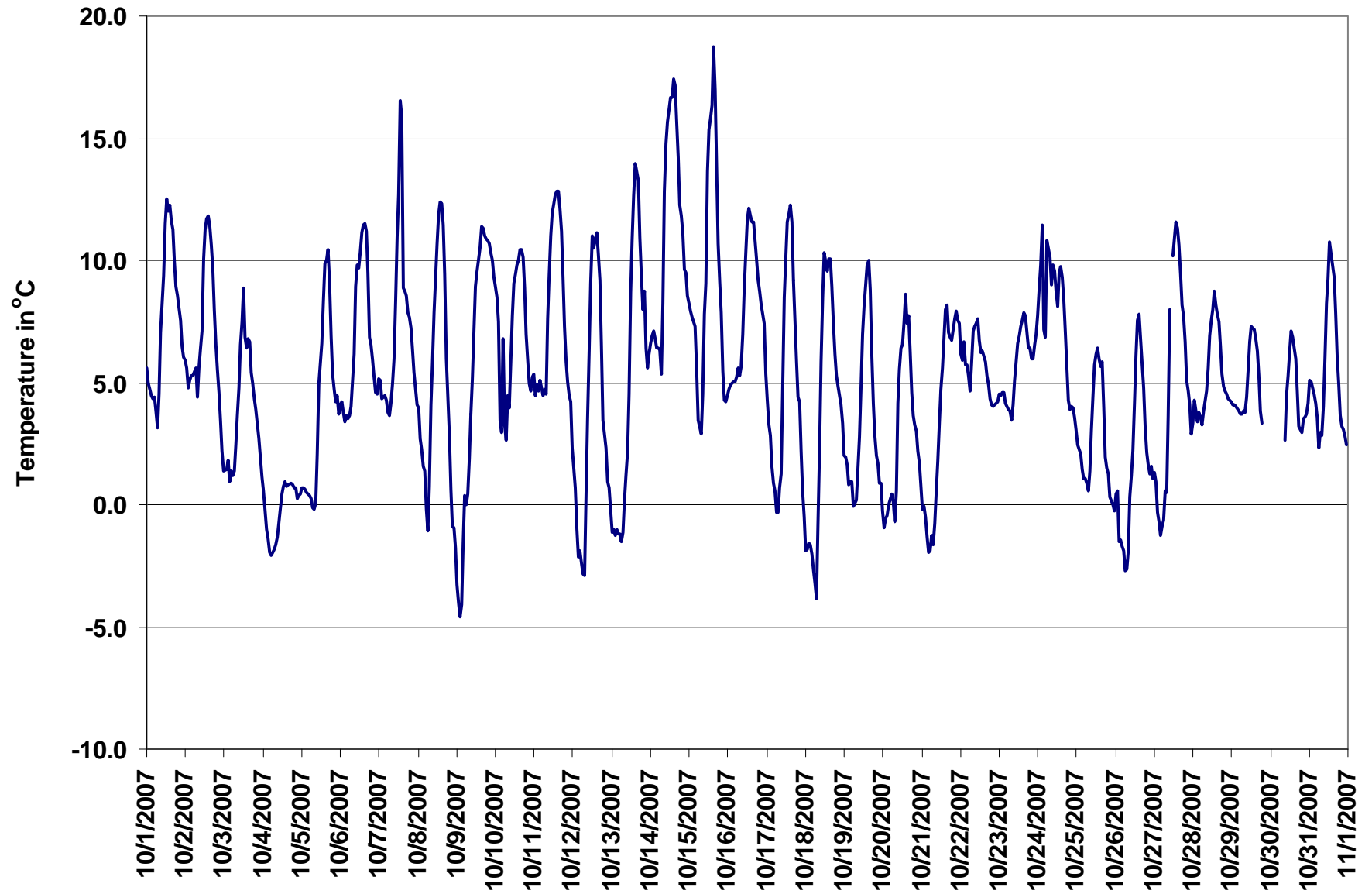


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

PASZA - Henry Pirker Solar Radiation Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

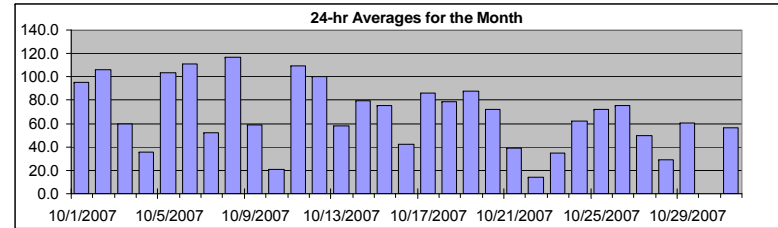
HOURLY AVERAGE TABLE

Solar Radiation (SR)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	458.6	W/m ²	2-Oct	12:00 13:00
Maximum 24-hr Value:	116.5	W/m ²	8-Oct	



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
	411.2	313.8	107.6	0.0	0.0	0.0	0.0	68.6 W/m ²	0.0 W/m ²

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Oct-07	0	0	0	0	0	0	0	19	132	191	317	434	392	266	277	145	89	29	2	0	0	0	0	0	95.6	434.1	
2-Oct-07	0	0	0	0	0	0	0	14	53	104	161	407	459	425	375	266	188	83	6	0	0	0	0	0	105.9	458.6	
3-Oct-07	0	0	0	0	0	0	0	17	30	112	160	209	294	152	69	217	146	26	2	0	0	0	0	0	59.7	293.6	
4-Oct-07	0	0	0	0	0	0	0	5	29	61	106	146	122	132	107	84	45	10	1	0	0	0	0	0	35.4	145.8	
5-Oct-07	0	0	0	0	0	0	0	6	44	92	286	415	429	412	350	227	172	45	2	0	0	0	0	0	103.3	429.0	
6-Oct-07	0	0	0	0	0	0	0	20	131	272	349	238	403	430	373	271	146	36	2	0	0	0	0	0	111.2	429.7	
7-Oct-07	0	0	0	0	0	0	0	6	25	71	177	137	235	389	114	39	34	18	0	0	0	0	0	0	51.8	389.1	
8-Oct-07	0	0	0	0	0	0	0	25	138	246	336	395	418	409	359	274	154	40	2	0	0	0	0	0	116.5	418.2	
9-Oct-07	0	0	0	0	0	0	0	26	120	112	133	222	203	152	209	137	76	14	0	0	0	0	0	0	58.5	221.9	
10-Oct-07	0	0	0	0	0	0	0	2	13	28	51	57	58	65	72	80	48	27	1	0	0	0	0	0	20.9	80.5	
11-Oct-07	0	0	0	0	0	0	0	16	121	227	316	376	403	388	338	255	145	42	1	0	0	0	0	0	109.5	403.0	
12-Oct-07	0	0	0	0	0	0	0	15	104	230	307	374	378	290	301	240	137	37	1	0	0	0	0	0	100.6	377.6	
13-Oct-07	0	0	0	0	0	0	0	20	67	78	113	181	333	173	220	139	63	13	1	0	0	0	0	0	58.4	332.7	
14-Oct-07	0	0	0	0	0	0	0	23	122	212	276	287	278	250	236	147	60	27	0	0	0	0	0	0	79.9	286.6	
15-Oct-07	0	0	0	0	0	0	0	7	66	108	182	328	284	211	238	303	71	16	0	0	0	0	0	0	75.7	328.0	
16-Oct-07	0	0	0	0	0	0	0	3	25	84	145	149	140	136	140	108	67	10	0	0	0	0	0	0	41.9	148.5	
17-Oct-07	0	0	0	0	0	0	0	9	99	89	250	341	273	351	304	222	108	20	0	0	0	0	0	0	86.1	350.9	
18-Oct-07	0	0	0	0	0	0	0	8	89	192	282	336	366	239	178	132	53	10	0	0	0	0	0	0	78.5	366.2	
19-Oct-07	0	0	0	0	0	0	0	2	49	180	273	331	354	340	285	207	74	12	0	0	0	0	0	0	87.8	353.8	
20-Oct-07	0	0	0	0	0	0	0	5	61	188	266	212	249	272	296	72	92	12	0	0	0	0	0	0	71.9	295.5	
21-Oct-07	0	0	0	0	0	0	0	7	56	99	154	147	119	98	111	95	53	4	0	0	0	0	0	0	39.3	154.3	
22-Oct-07	0	0	0	0	0	0	0	0	14	28	50	45	52	57	47	25	14	4	0	0	0	0	0	0	14.0	57.2	
23-Oct-07	0	0	0	0	0	0	0	1	22	82	145	146	92	84	92	106	51	8	0	0	0	0	0	0	34.5	146.5	
24-Oct-07	0	0	0	0	0	0	0	1	12	173	141	179	139	307	273	180	76	9	0	0	0	0	0	0	62.1	307.4	
25-Oct-07	0	0	0	0	0	0	0	2	63	169	253	311	274	279	171	129	76	5	0	0	0	0	0	0	72.2	311.4	
26-Oct-07	0	0	0	0	0	0	0	2	55	160	243	274	307	309	250	155	49	4	0	0	0	0	0	0	75.3	308.5	
27-Oct-07	0	0	0	0	0	0	0	1	20	94	219	P	265	304	157	62	20	3	0	0	1	0	0	0	49.8	303.6	
28-Oct-07	0	0	0	0	0	0	0	0	11	37	68	106	125	149	114	64	17	1	0	1	0	0	0	0	28.9	149.4	
29-Oct-07	0	0	0	0	0	0	0	0	21	72	153	230	279	170	180	68	33	5	1	0	N	N	N	N	60.6	278.8	
30-Oct-07	N	N	N	N	N	N	N	N	N	126	181	200	281	276	182	97	46	3	0	0	0	0	0	0	0	N	281.3
31-Oct-07	0	0	0	0	0	0	0	0	14	58	89	259	238	276	225	136	53	5	0	0	0	0	0	0	56.4	276.4	
Hourly Avg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	60.3	128.2	199.4	249.1	265.8	251.3	214.3	151.1	79.2	18.6	0.7	0.0	0.0	0.0	0.0	0.0			
Hourly Max	0.0	0.0	0.0	0.0	0.0	0.2	0.3	25.6	138.1	271.5	348.6	434.1	458.6	429.7	375.4	303.0	188.2	83.2	6.2	0.7	0.8	0.0	0.0	0.0			

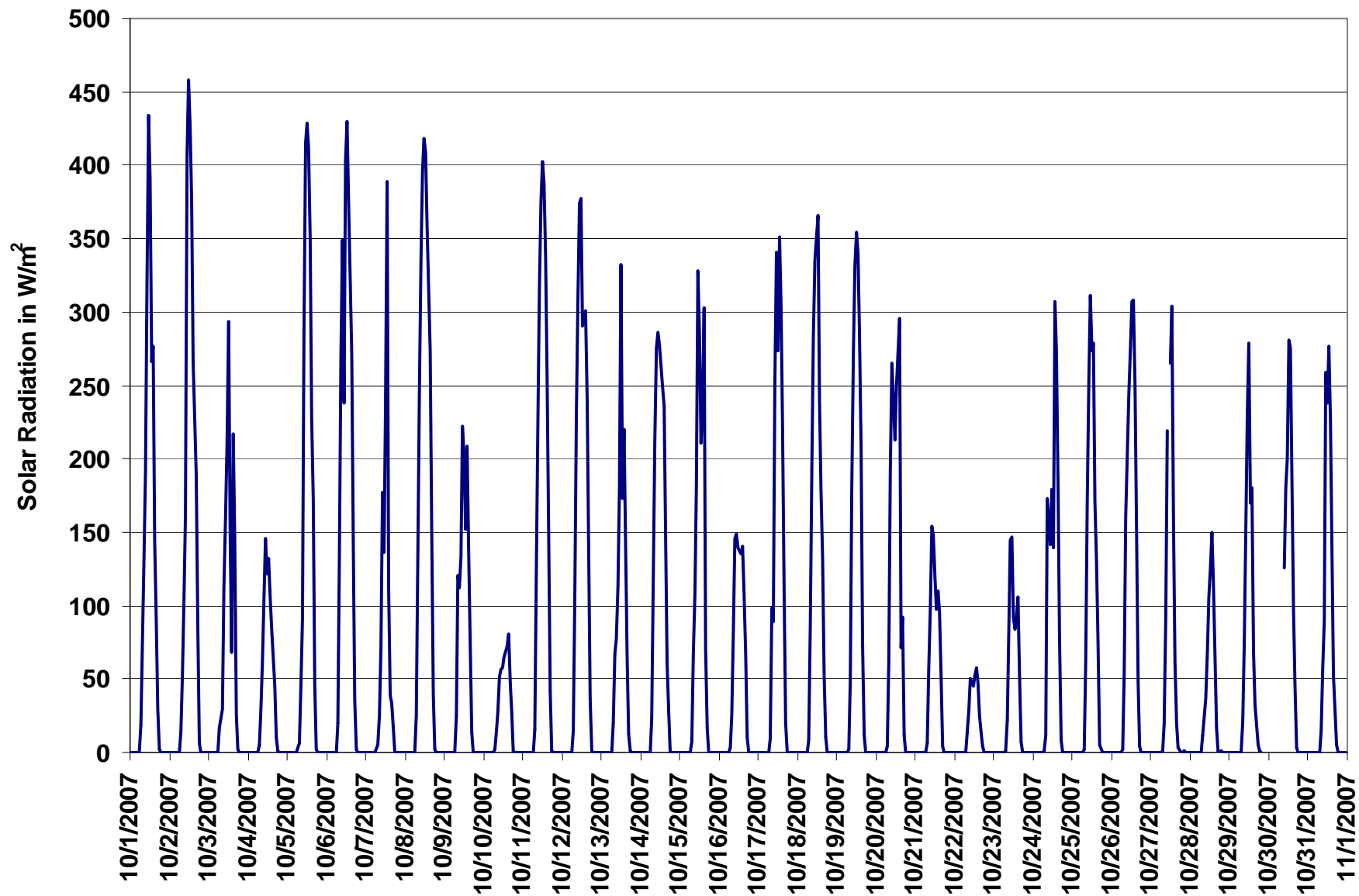


Figure 19. PASZA - Henry Pirker Solar Radiation 1-hr Average Monthly Trend

PASZA - Henry Pirker Scalar Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

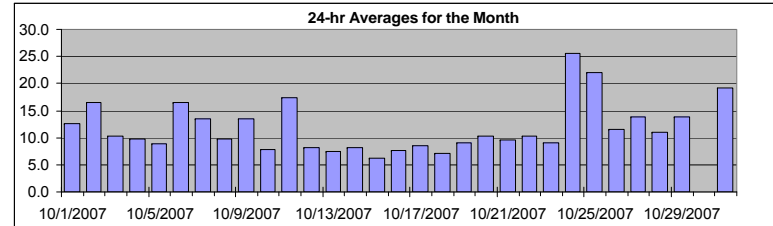
Wind Speed (WSs)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	39.1	km/hr	24-Oct	14:00 15:00
Maximum 24-hr Value:	25.5	km/hr	24-Oct	

Calm Time:	0 hrs	0% calms	Operational Time:	730 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	98.1%				
Percentile	99	95	75	50	25	5	1	AverageS
	34.5	28.2	14.2	9.6	7.4	5.6	4.9	12.0 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Oct-07	7	9	8	7	6	7	9	9	7	10	15	19	22	25	22	18	20	21	14	12	13	11	7	8	12.7	24.7	
2-Oct-07	7	8	8	8	9	8	10	9	10	12	15	21	34	34	31	31	26	24	18	16	16	18	14	10	16.6	34.5	
3-Oct-07	9	10	9	9	10	8	9	10	10	10	10	13	13	9	17	14	11	7	8	8	9	9	9	14	10.2	17.5	
4-Oct-07	14	11	10	9	10	8	8	9	11	11	10	10	10	10	10	10	9	9	9	8	9	10	9	8	9.7	13.8	
5-Oct-07	9	9	9	7	11	10	9	10	11	10	9	8	9	9	11	13	10	8	6	7	6	6	8	8	8.9	13.0	
6-Oct-07	7	8	8	8	8	9	10	12	15	18	27	30	35	36	35	28	27	20	11	9	7	10	8	11	16.6	35.9	
7-Oct-07	13	10	13	13	14	13	12	11	9	11	13	13	14	13	18	29	19	21	10	10	13	11	11	9	13.5	29.1	
8-Oct-07	8	6	8	10	8	6	8	7	9	11	16	15	14	15	17	16	16	10	7	6	6	6	5	5	9.8	17.5	
9-Oct-07	6	6	6	6	9	13	13	15	15	16	16	17	16	16	16	18	19	16	19	21	16	13	11	8	13.5	20.7	
10-Oct-07	10	10	9	7	7	10	7	5	8	7	9	11	9	7	8	7	7	8	8	7	7	6	5	7	7.8	11.4	
11-Oct-07	7	7	10	12	12	15	16	14	15	13	21	33	33	33	32	30	26	20	17	12	10	10	9	10	17.4	33.4	
12-Oct-07	8	6	5	4	6	8	8	7	5	9	10	10	12	17	15	14	12	7	6	6	5	5	5	5	8.2	17.0	
13-Oct-07	5	6	7	7	6	6	7	8	9	7	6	9	9	8	10	7	7	7	7	8	10	7	7	8	7.4	9.9	
14-Oct-07	10	8	7	5	6	6	5	6	5	6	8	11	16	11	8	10	9	9	9	10	8	8	6	6	8.1	16.3	
15-Oct-07	6	5	5	7	6	5	6	6	6	5	6	6	7	5	6	7	9	7	5	9	6	6	7	6	6.2	8.8	
16-Oct-07	6	6	5	6	7	6	6	6	8	9	8	8	8	9	11	9	7	6	6	9	8	8	14	7	7.6	13.7	
17-Oct-07	7	8	6	6	6	6	6	6	5	8	8	9	13	14	20	16	15	9	6	8	9	6	6	5	8.6	20.4	
18-Oct-07	7	7	6	6	6	6	5	5	6	6	5	6	7	9	7	8	8	8	9	10	9	9	9	9	7.1	9.5	
19-Oct-07	6	6	6	7	6	7	9	8	9	10	11	10	13	13	11	13	13	11	9	9	8	9	8	7	9.1	13.3	
20-Oct-07	6	6	6	5	6	6	7	6	8	10	12	11	12	15	13	13	14	10	9	10	12	15	17	15	10.3	16.9	
21-Oct-07	11	13	11	8	6	6	7	6	7	7	9	9	10	10	10	11	11	8	8	9	16	15	14	10	9.6	15.6	
22-Oct-07	7	11	8	9	7	6	8	10	14	15	12	14	15	10	8	10	13	12	11	9	8	10	10	9	10.2	14.7	
23-Oct-07	9	8	8	7	6	6	7	9	12	12	13	12	10	10	10	11	9	7	8	9	7	7	9	11	9.0	12.5	
24-Oct-07	12	12	13	14	9	13	30	29	31	35	34	34	32	30	39	37	27	28	26	21	24	26	28	28	25.5	39.1	
25-Oct-07	26	24	25	22	23	23	23	22	20	24	26	32	30	30	28	21	19	17	15	16	14	14	16	18	22.0	31.7	
26-Oct-07	17	19	12	12	15	13	11	10	8	9	12	13	11	12	15	14	13	13	10	9	7	8	7	8	11.5	19.0	
27-Oct-07	9	9	9	9	8	9	8	8	10	12	17	P	19	21	24	22	16	13	17	17	17	17	16	11	13.8	23.7	
28-Oct-07	10	18	14	12	13	11	10	11	11	10	15	20	19	12	13	11	8	8	7	7	4	6	7	6	11.0	19.9	
29-Oct-07	7	7	7	7	6	6	7	8	7	9	10	13	22	28	24	24	23	24	18	19	N	N	N	N	13.9	27.7	
30-Oct-07	N	N	N	N	N	N	N	N	N	15	21	19	26	29	29	28	23	21	15	16	19	15	13	12	N	29.2	
31-Oct-07	21	23	20	16	14	12	6	10	7	8	12	15	18	36	36	33	31	26	23	17	16	20	18	19	19.1	36.5	
1-hr Average	9.5	10.0	9.2	8.9	8.8	8.9	9.5	9.7	10.3	11.4	13.5	15.0	16.7	17.4	17.9	17.3	15.3	13.4	11.3	11.1	10.6	10.7	10.4	10.0			
Hourly Max	26.2	24.2	24.6	22.2	22.9	23.4	30.2	28.6	31.1	34.7	34.1	33.7	34.6	36.5	39.1	37.2	31.1	28.3	26.0	20.8	24.2	25.9	27.7	28.1			

PASZA - Henry Pirker Vector Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

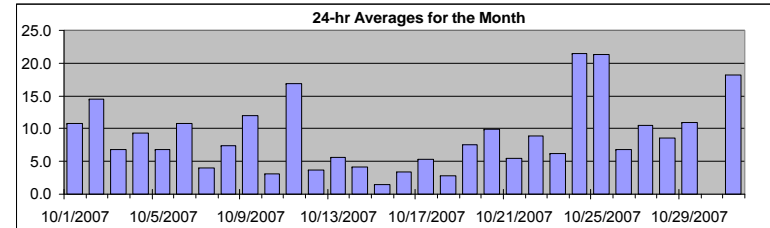
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	38.8	km/hr	24-Oct	14:00 15:00
Maximum 24-hr Value:	21.5	km/hr	24-Oct	



Calm Time:	0 hrs	0% calms	Operational Time:	730 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	98.1%				
Percentile	99	95	75	50	25	5	1	AverageV
	34.3	28.0	13.8	9.1	6.6	3.4	1.2	44.7 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	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00				
1-Oct-07	6	9	7	7	6	7	8	9	6	10	14	19	21	24	21	18	20	21	14	11	13	11	6	8		10.8	24.5	
2-Oct-07	7	8	8	8	9	7	8	8	10	11	14	19	34	34	31	31	25	24	18	16	16	18	13	9		14.4	34.3	
3-Oct-07	9	10	8	8	8	8	8	10	10	10	10	13	13	7	17	8	10	6	7	8	8	9	9	14		6.8	16.9	
4-Oct-07	14	11	10	9	10	7	8	9	11	10	10	9	9	10	9	10	8	9	9	8	9	9	9	8		9.3	13.6	
5-Oct-07	8	8	9	7	10	8	9	9	9	7	7	7	7	8	9	13	9	8	6	3	4	6	8	8		6.8	12.5	
6-Oct-07	7	8	8	8	8	9	9	12	15	18	27	29	34	36	35	28	27	20	11	6	7	10	8	11		10.8	35.6	
7-Oct-07	13	9	12	13	14	13	12	10	9	11	13	13	13	13	7	29	18	21	9	10	13	9	11	9		4.1	29.0	
8-Oct-07	6	5	6	10	7	3	4	2	8	11	16	15	13	14	17	16	16	10	7	5	5	1	4	3		7.3	17.1	
9-Oct-07	5	5	5	1	9	13	13	15	15	16	16	17	15	16	16	17	19	16	19	21	15	13	11	8		11.9	20.6	
10-Oct-07	10	9	5	4	5	9	4	4	1	3	9	11	9	7	8	5	6	8	4	5	7	5	3	4		3.2	11.3	
11-Oct-07	6	5	10	11	11	14	16	14	14	13	21	32	32	33	32	30	26	20	17	12	9	10	9	10		16.9	33.2	
12-Oct-07	8	6	3	4	4	8	8	4	1	6	10	10	10	17	15	12	11	6	6	6	4	3	2	4		3.7	16.5	
13-Oct-07	3	5	6	7	6	6	7	8	8	7	6	8	8	7	9	6	6	7	6	6	10	6	6	8		5.6	9.8	
14-Oct-07	10	8	6	5	5	5	3	5	3	4	8	10	16	11	8	9	9	9	9	10	8	8	6	1		4.1	16.0	
15-Oct-07	6	0	2	6	3	1	5	3	6	4	6	3	5	2	5	7	8	6	3	7	4	6	7	4		1.4	7.6	
16-Oct-07	5	4	1	2	3	5	1	5	7	8	8	6	8	7	10	9	7	6	4	7	1	3	13	6		3.5	12.6	
17-Oct-07	7	7	5	5	3	3	5	4	5	8	7	9	12	14	20	15	15	9	5	5	8	4	3	1		5.4	20.2	
18-Oct-07	0	7	5	5	5	6	4	3	5	6	4	4	4	9	6	7	8	7	9	9	9	9	9	8		2.9	9.4	
19-Oct-07	2	1	4	7	5	6	8	8	8	9	11	9	13	12	11	12	13	10	9	9	7	9	8	7		7.6	13.0	
20-Oct-07	5	6	6	4	6	6	7	6	8	9	11	10	12	15	12	13	14	10	9	10	11	15	17	15		9.9	16.9	
21-Oct-07	10	12	11	8	4	3	6	5	7	7	8	9	10	10	10	10	11	8	8	8	16	15	14	10		5.5	15.6	
22-Oct-07	6	11	8	9	5	5	7	9	13	15	12	13	14	9	7	10	12	12	10	9	8	10	10	8		8.9	14.5	
23-Oct-07	8	7	6	6	6	5	5	9	12	12	12	12	10	10	10	10	8	6	7	8	6	7	9	11		6.2	12.3	
24-Oct-07	12	12	13	12	8	12	30	28	31	35	34	34	31	30	39	37	27	28	25	21	24	26	28	28		21.5	38.8	
25-Oct-07	26	24	25	22	23	23	23	22	20	24	26	31	30	29	28	21	18	17	15	16	14	14	16	18		21.3	31.5	
26-Oct-07	16	17	12	12	15	12	11	10	7	9	12	12	10	12	14	14	13	13	9	9	6	8	7	7		6.8	17.2	
27-Oct-07	9	9	8	8	8	5	6	5	9	11	16	P	19	21	24	22	16	12	17	17	16	17	14	10		10.6	23.6	
28-Oct-07	9	18	14	12	12	10	9	10	11	10	15	20	18	12	13	11	7	8	7	7	0	5	6	6		8.6	19.6	
29-Oct-07	7	7	7	6	5	6	7	8	7	9	10	13	22	28	24	24	23	24	18	19	N	N	N	N		11.0	27.6	
30-Oct-07	N	N	N	N	N	N	N	N	N	15	21	19	26	29	29	28	22	21	14	16	18	15	13	12		N	29.0	
31-Oct-07	21	23	20	16	13	11	5	9	7	8	12	14	18	36	36	33	31	26	22	17	16	20	18	19		18.2	36.3	
1-hr Vector	3.0	3.2	2.4	3.1	2.9	3.4	4.1	4.6	5.2	6.5	8.2	8.8	9.9	11.2	12.3	11.5	9.2	8.2	6.1	5.7	5.3	4.9	4.9	4.4				
Hourly Max	26.1	24.1	24.5	22.1	22.9	23.4	30.0	28.4	30.8	34.5	33.9	33.5	34.3	36.3	38.8	36.9	31.0	28.2	25.5	20.6	24.1	25.8	27.6	28.1				

PASZA - Henry Pirker Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	730 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	98.1%				
Percentile	99	95	75	50	25	5	1	Average
	348.7	313.3	252.0	138.2	55.9	23.5		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																								24-hour Average	WD Sector	
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Oct-07	8	309	311	288	269	210	221	225	224	231	254	234	241	254	251	245	239	241	231	218	208	199	159	166	239	WSW	
2-Oct-07	144	117	143	154	154	190	212	267	234	223	198	226	247	246	246	243	235	237	237	238	238	239	232	222	229	SW	
3-Oct-07	236	256	296	282	266	304	298	273	275	271	282	291	285	194	252	287	1	316	311	298	11	36	36	52	293	WNW	
4-Oct-07	51	36	34	50	38	34	28	26	27	26	25	25	31	44	56	58	47	62	59	62	62	60	68	74	45	NE	
5-Oct-07	89	87	104	136	109	179	216	205	202	219	193	180	140	141	149	145	139	148	181	258	150	158	154	156	158	SSE	
6-Oct-07	118	114	115	134	143	153	185	224	221	226	241	249	252	247	244	252	243	247	278	277	103	95	94	97	230	SW	
7-Oct-07	99	107	82	87	92	95	98	95	99	101	104	102	103	115	223	275	256	255	225	214	215	245	236	233	155	SSE	
8-Oct-07	226	267	232	161	244	16	239	207	226	230	242	247	241	233	244	264	262	261	312	339	314	343	110	349	250	WSW	
9-Oct-07	288	301	306	124	90	80	79	81	81	92	94	96	106	105	105	108	104	107	106	105	102	107	99	72	97	E	
10-Oct-07	76	76	116	207	135	120	272	307	311	314	88	95	96	87	81	55	55	97	251	92	165	204	201	208	106	ESE	
11-Oct-07	213	243	216	234	221	242	240	219	246	245	244	246	245	246	248	249	252	253	255	235	225	204	207	217	240	WSW	
12-Oct-07	236	277	352	127	131	146	145	182	207	179	215	235	273	262	255	290	318	341	85	142	151	181	128	234	229	SW	
13-Oct-07	121	123	120	137	106	102	99	99	104	130	152	133	124	130	110	179	254	176	172	190	219	222	139	112	140	SE	
14-Oct-07	145	141	144	145	126	110	192	328	304	352	317	316	313	323	337	323	315	315	322	336	329	317	344	297	322	NW	
15-Oct-07	163	242	82	352	55	184	304	294	301	269	259	270	200	175	68	48	65	94	334	358	35	300	283	271	324	NW	
16-Oct-07	306	294	10	257	294	144	353	295	236	302	319	352	57	158	227	267	312	347	319	171	163	333	256	231	281	W	
17-Oct-07	275	271	254	283	158	163	284	138	143	156	208	222	242	243	264	254	272	285	326	259	259	354	103	103	247	WSW	
18-Oct-07	228	149	106	110	129	106	83	273	283	276	239	242	131	98	56	42	38	5	17	26	30	40	84	103	68	ENE	
19-Oct-07	23	336	297	277	264	215	235	220	229	241	227	221	220	228	261	248	259	248	275	299	307	297	275	267	255	WSW	
20-Oct-07	253	260	262	270	239	241	296	267	278	250	234	229	241	254	231	250	250	227	219	220	230	239	242	247	244	WSW	
21-Oct-07	275	261	257	256	226	197	138	102	96	113	130	117	137	133	136	144	141	135	130	185	215	217	233	230	180	S	
22-Oct-07	254	193	197	207	176	172	163	199	212	230	249	242	272	276	232	197	192	196	199	204	203	198	200	184	212	SSW	
23-Oct-07	232	262	258	314	146	141	139	91	94	91	95	116	109	94	84	104	97	59	81	103	65	66	95	102	101	E	
24-Oct-07	113	107	115	150	311	304	272	259	247	241	244	241	239	244	257	248	248	237	239	251	242	238	240	242	244	WSW	
25-Oct-07	241	242	241	240	239	242	240	238	238	242	251	265	275	268	270	256	267	242	235	234	227	223	230	243	248	WSW	
26-Oct-07	265	297	311	315	313	300	265	243	192	175	164	153	168	207	225	208	214	236	218	224	203	165	138	119	229	SW	
27-Oct-07	117	129	150	130	143	173	211	164	216	233	266	P	260	261	238	246	250	262	253	239	241	233	246	256	233	SW	
28-Oct-07	284	265	259	259	241	266	281	276	239	227	227	243	247	206	183	179	250	189	161	151	253	145	162	160	233	SW	
29-Oct-07	155	155	156	137	154	172	190	210	146	181	233	262	271	259	253	244	243	242	241	242	N	N	N	N	232	SW	
30-Oct-07	N	N	N	N	N	N	N	N	N	N	245	245	250	249	249	250	249	245	240	223	230	239	237	226	226	N	-
31-Oct-07	230	231	231	231	219	201	128	188	198	212	204	194	202	239	234	235	238	234	238	224	220	212	221	235	225	SW	
Hourly Avg	216	235	217	208	194	188	229	228	225	226	231	234	241	237	241	244	247	240	239	230	222	224	210	210			

PASZA - Henry Pirker Standard Deviation of Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	730 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	98.1%			
Percentile	99	95	75	50	25	5	1
	87.2	68.3	25.2	14.9	8.6	5.6	4.0

Status Flag Characters

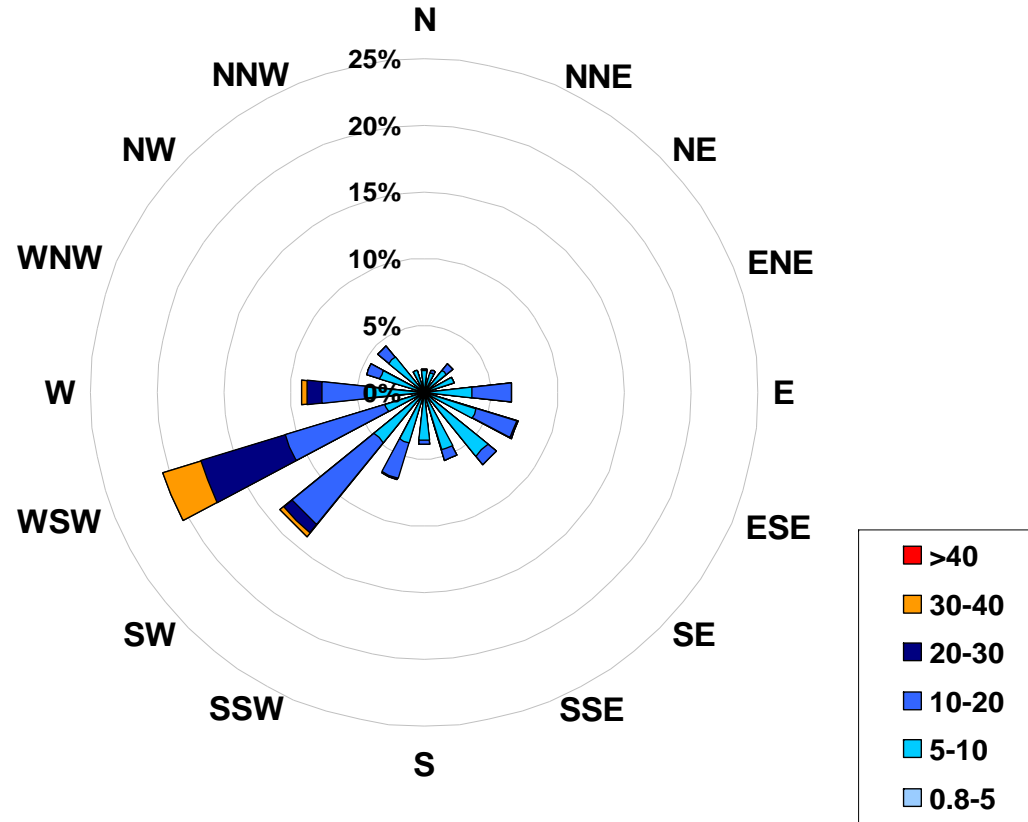
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

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	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-Oct-07	33	8	15	10	11	26	12	17	27	14	11	10	12	8	9	8	8	6	9	16	9	8	19	12	33.3		
2-Oct-07	17	19	10	10	8	24	36	35	24	15	17	27	6	7	9	7	6	6	6	6	6	5	11	17	35.6		
3-Oct-07	14	16	25	16	29	18	24	13	15	14	10	12	22	44	20	56	20	40	20	20	23	24	15	10	56.1		
4-Oct-07	10	23	16	14	13	20	20	14	14	14	16	18	21	21	16	13	22	13	13	16	18	12	16	13	22.8		
5-Oct-07	15	12	15	26	11	36	16	25	29	13	37	38	39	28	27	16	22	11	22	86	54	13	13	13	86.4		
6-Oct-07	21	13	13	11	11	7	20	9	9	12	7	9	7	8	7	10	6	8	5	73	10	5	9	6	72.5		
7-Oct-07	17	28	12	9	6	6	5	10	11	9	7	9	12	16	61	5	9	7	26	20	12	37	19	15	61.4		
8-Oct-07	54	43	36	20	32	73	65	82	12	12	10	12	21	24	11	11	9	7	22	22	39	83	29	50	83.2		
9-Oct-07	22	22	40	95	15	5	5	6	8	8	8	8	12	11	11	11	7	9	6	6	7	7	6	13	94.9		
10-Oct-07	10	15	70	55	53	39	68	55	86	71	14	10	11	23	14	53	42	13	77	53	20	41	79	59	85.6		
11-Oct-07	41	46	8	11	12	10	7	10	25	10	8	9	9	7	7	8	7	7	5	19	16	6	7	6	46.0		
12-Oct-07	18	20	65	24	66	8	6	56	87	59	16	19	30	14	16	28	10	35	19	23	36	50	86	47	86.9		
13-Oct-07	73	39	19	11	17	16	11	8	12	21	26	24	25	25	16	44	25	14	25	53	8	35	24	15	73.2		
14-Oct-07	7	16	21	27	18	43	60	44	69	56	26	16	10	13	26	17	12	7	8	7	16	18	32	92	91.6		
15-Oct-07	29	93	67	22	55	83	36	72	25	57	29	70	44	74	42	27	31	14	55	39	68	18	16	57	92.5		
16-Oct-07	41	59	82	79	82	28	97	47	35	20	22	43	21	47	21	21	15	23	58	51	91	70	23	28	97.2		
17-Oct-07	17	16	47	34	56	73	49	58	22	10	33	19	12	14	9	12	7	13	17	64	21	58	66	87	87.4		
18-Oct-07	96	15	30	46	20	22	30	65	23	16	37	53	64	22	25	22	20	17	9	7	12	12	13	17	95.5		
19-Oct-07	73	92	70	28	38	34	18	29	24	14	15	22	15	20	18	19	12	14	12	18	10	10	9	26	92.0		
20-Oct-07	35	27	21	35	21	32	22	28	14	23	14	20	14	16	19	15	9	11	7	8	9	5	3	6	35.3		
21-Oct-07	17	20	11	16	64	68	22	24	12	20	12	14	14	12	12	10	8	11	20	33	5	6	8	11	67.8		
22-Oct-07	34	12	20	14	71	36	22	21	14	9	9	12	13	12	26	12	9	8	7	7	11	7	8	19	70.6		
23-Oct-07	39	28	34	30	22	46	48	9	8	8	11	15	18	13	14	19	28	25	20	16	42	14	13	7	48.5		
24-Oct-07	7	7	10	28	31	33	9	6	9	5	6	5	6	6	7	6	6	5	12	8	5	6	4	4	33.2		
25-Oct-07	4	4	3	4	4	4	4	4	4	6	6	7	7	7	6	7	11	8	7	6	8	6	5	8	10.7		
26-Oct-07	12	25	11	7	5	22	11	12	22	22	14	16	23	16	16	13	11	7	24	16	22	11	23	20	25.2		
27-Oct-07	11	16	32	15	11	70	47	68	20	16	14	P	8	14	7	9	11	8	6	8	8	7	32	22	70.4		
28-Oct-07	29	11	7	16	15	21	19	23	9	14	8	11	8	15	13	13	32	23	16	7	86	33	6	9	85.8		
29-Oct-07	8	8	10	28	17	18	11	15	20	25	18	12	8	6	7	6	7	4	4	5	N	N	N	N	28.4		
30-Oct-07	N	N	N	N	N	N	N	N	N	7	6	8	7	7	7	7	7	5	14	7	6	6	8	11	14.0		
31-Oct-07	6	6	8	8	11	12	36	23	33	20	21	11	15	6	6	6	5	6	6	10	7	6	8	7	36.2		

Hourly Max	96	93	82	95	82	83	97	82	87	71	37	70	64	74	61	56	42	40	77	86	91	83	86	92
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1-hr Average Wind Rose (in km/hr) Located at the Henry Pirker Site for October 2007



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	11
5	to	10	385
10	to	20	243
20	to	30	64
30	to	40	27
	>	40	0
Total Non-Zero Values			730

PASZA – Evergreen Park Station

Monthly Summary Tables, Graphs and Roses

PASZA - Evergreen Park Sulphur Dioxide Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

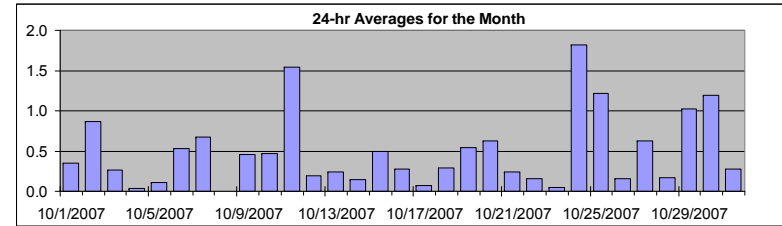
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2007 to November 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:	7.8	ppb	11-Oct	12:00 13:00
Maximum 24-hr Average:	1.8	ppb	24-Oct	



AIC Time:	32 hrs	Operational Time:	709 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	6.4	2.3	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 Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Oct-07	0	0	A	0	0	0	0	0	0	0	0	0	1	4	0	0	1	0	0	0	0	0	0	0	0	0.4	3.8
2-Oct-07	0	A	0	0	0	0	0	0	0	0	0	0	2	6	6	4	0	0	0	0	0	0	0	0	0.9	6.2	
3-Oct-07	A	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	A	0	0.3	1.0	
4-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.0	0.1	
5-Oct-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	0.3	
6-Oct-07	0	0	0	0	0	0	0	0	0	0	0	3	4	1	0	3	0	0	0	0	A	0	0	0	0.5	3.9	
7-Oct-07	0	0	0	0	0	0	0	0	0	0	1	4	4	5	1	0	0	0	0	A	0	0	0	0	0.7	5.0	
8-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.0	0.0	
9-Oct-07	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	2	1	A	0	1	1	1	0	0	0.5	1.5	
10-Oct-07	1	1	1	0	0	0	1	0	0	0	0	1	1	0	0	1	A	1	1	0	0	0	0	0	0.5	1.3	
11-Oct-07	0	0	0	0	0	0	0	0	0	5	4	5	8	7	2	A	1	2	0	0	0	0	0	0	1.5	7.8	
12-Oct-07	0	0	0	0	0	0	0	0	0	0	C	C	C	0	1	0	0	0	0	0	0	0	0	0	0.2	0.6	
13-Oct-07	0	0	0	0	0	A	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0.2	1.5	
14-Oct-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	
15-Oct-07	0	0	0	A	0	0	0	0	1	1	1	2	1	0	0	1	1	0	0	0	0	0	0	0	0.5	2.3	
16-Oct-07	0	0	A	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.3	0.6	
17-Oct-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
18-Oct-07	A	0	0	0	0	0	0	0	0	1	1	1	1	2	1	0	0	0	0	0	0	0	0	A	0.3	1.9	
19-Oct-07	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	1	0	0	0	1	A	0	0.5	1.8	
20-Oct-07	0	0	0	0	0	0	0	0	0	1	2	1	1	3	2	1	0	0	0	0	0	A	0	0	0.6	2.5	
21-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	A	0	0	0	0.2	0.5	
22-Oct-07	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	A	0	0	0	0	0.2	0.7	
23-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.2	
24-Oct-07	0	1	1	0	0	0	0	0	0	3	6	7	5	6	7	5	0	A	0	0	0	0	0	0	1.8	7.1	
25-Oct-07	0	0	0	0	0	0	0	0	0	1	7	8	4	2	1	1	2	A	0	0	0	0	0	0	1.2	7.6	
26-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	A	0	0	0	0	0	0	0	0	0.2	1.0	
27-Oct-07	0	0	0	0	0	0	0	0	0	1	1	0	1	4	A	1	2	2	1	0	0	0	0	0	0.6	3.8	
28-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0.2	0.6	
29-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	A	5	5	6	5	1	0	0	0	0	0	0	1.0	6.2	
30-Oct-07	0	0	0	0	0	0	0	0	0	1	5	A	6	2	2	8	1	0	0	0	0	0	0	0	1.2	7.8	
31-Oct-07	0	0	0	0	0	0	0	0	0	0	A	0	0	1	1	1	0	0	0	0	0	0	0	0	0.3	1.5	
Hourly Avg	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.8	1.2	1.2	1.4	1.8	1.3	1.3	0.6	0.4	0.2	0.2	0.1	0.1	0.1	0.1			
Hourly Max	1.2	1.3	0.6	0.3	0.3	0.3	0.5	0.5	0.8	7.3	7.6	6.8	7.8	6.7	7.1	7.8	4.5	2.5	1.0	0.6	0.6	0.6	0.4	0.4			

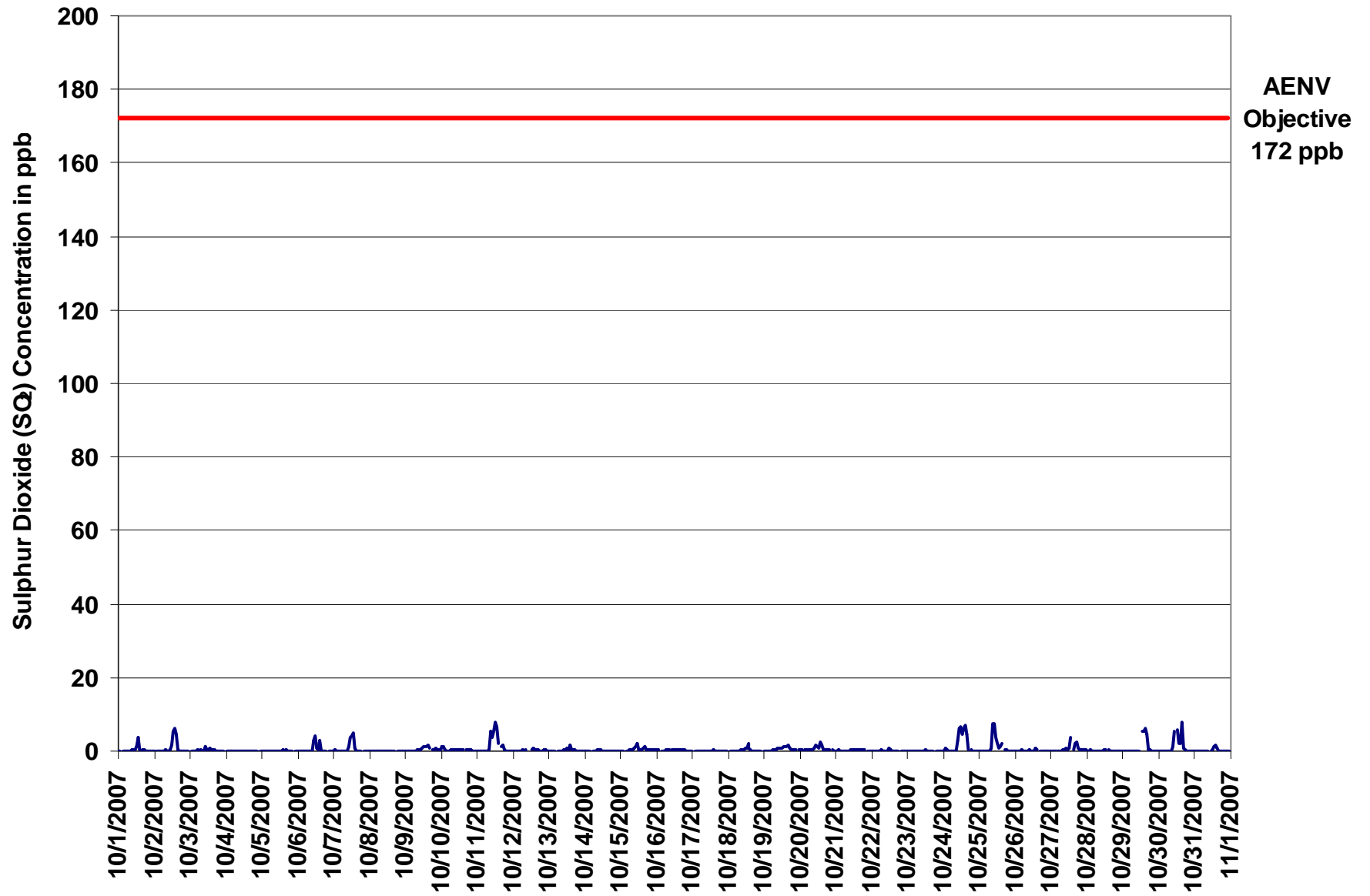


Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

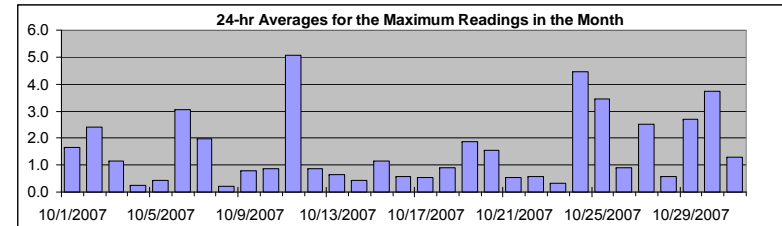
Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	17.8	ppb	11-Oct	12:00 13:00
Maximum 24-hr Value:	5.0	ppb	11-Oct	

AIC Time:	32 hrs	Operational Time:	709 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	14.3	10.3	0.7	0.4	0.3	0.1	0.1	1.5 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-Oct-07	0	0	A	0	0	0	0	0	0	1	1	6	7	12	0	4	3	0	0	0	0	0	0	0	1.6	12.0
2-Oct-07	0	A	0	0	0	1	0	0	1	1	0	2	9	13	12	12	1	0	1	0	0	0	0	0	2.4	12.8
3-Oct-07	A	0	0	0	0	1	1	1	0	1	4	2	3	6	3	1	1	1	0	1	1	0	0	A	1.1	6.2
4-Oct-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	0.3	0.5
5-Oct-07	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	A	0	0	0.4	1.0
6-Oct-07	0	0	0	0	0	0	0	1	0	0	0	14	16	12	8	14	0	0	0	0	A	0	0	0	3.1	16.4
7-Oct-07	0	2	0	0	0	0	0	0	0	0	4	12	13	8	3	0	1	0	0	A	0	0	0	0	2.0	12.6
8-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.2	0.4
9-Oct-07	0	0	0	0	0	0	0	0	1	1	1	1	2	2	2	2	1	A	1	1	1	1	1	0	0.8	2.2
10-Oct-07	2	2	1	0	0	0	1	1	1	1	1	1	1	1	1	1	A	1	2	1	1	0	0	0	0.9	2.3
11-Oct-07	0	0	0	0	0	0	0	0	5	14	10	17	18	14	13	A	7	10	3	0	0	0	0	0	5.0	17.8
12-Oct-07	0	0	0	0	0	0	1	0	0	2	C	C	C	1	4	4	1	1	1	0	1	1	0	0	0.9	3.8
13-Oct-07	0	0	0	0	0	A	0	0	0	0	2	1	1	1	3	1	1	1	0	0	0	0	0	0	0.7	3.4
14-Oct-07	0	0	0	0	A	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0.4	0.7
15-Oct-07	0	0	0	A	0	0	1	1	1	1	5	6	1	1	1	2	1	1	0	0	0	0	1	1	1.2	6.4
16-Oct-07	1	0	A	0	0	0	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0.6	1.2
17-Oct-07	0	A	0	0	0	1	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0.5	3.1
18-Oct-07	A	0	0	0	0	0	0	0	1	1	1	4	2	5	2	1	0	0	0	0	0	0	0	A	0.9	4.9
19-Oct-07	0	0	0	0	0	0	1	0	1	2	3	4	3	3	4	8	7	1	1	1	1	1	A	1	1.9	7.8
20-Oct-07	1	1	1	1	1	1	1	1	1	3	4	5	1	6	5	1	1	1	0	1	1	A	1	1	1.6	6.5
21-Oct-07	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	A	0	0	0	0.5	2.0
22-Oct-07	0	0	0	0	0	1	1	0	0	0	1	3	1	1	0	0	0	0	0	A	0	0	0	0	0.6	3.1
23-Oct-07	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	A	0	0	0	0	0	0.3	0.7
24-Oct-07	0	1	1	0	0	0	0	0	2	10	11	13	11	14	17	13	4	A	2	0	0	0	0	0	4.5	16.9
25-Oct-07	0	0	0	0	0	0	0	0	5	14	14	11	11	5	6	7	A	1	0	1	1	0	0	0	3.4	14.0
26-Oct-07	0	0	0	1	1	0	0	0	0	1	0	0	0	8	6	A	0	0	0	0	0	0	0	0	0.9	7.8
27-Oct-07	0	0	0	0	0	0	0	0	1	3	3	1	10	14	A	1	9	9	2	1	1	1	0	1	2.5	14.1
28-Oct-07	1	0	1	0	0	0	0	0	1	0	0	1	3	A	0	0	0	0	0	0	0	0	0	0	0.6	3.1
29-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	A	11	12	12	16	4	0	0	0	0	0	0	2.7	15.9
30-Oct-07	0	0	0	0	0	0	0	0	1	10	16	A	11	10	13	14	5	1	0	0	0	0	0	0	3.7	16.2
31-Oct-07	0	0	0	0	1	0	1	1	0	0	A	0	0	8	9	4	0	0	0	0	0	0	0	0	1.3	9.4
Hourly Avg	0.4	0.5	0.4	0.3	0.3	0.4	0.4	0.4	0.9	2.3	2.9	3.8	4.4	5.3	4.4	3.5	2.2	1.3	0.6	0.5	0.4	0.4	0.3	0.4		
Hourly Max	1.8	2.3	1.3	0.7	0.6	0.8	0.9	1.0	5.2	14.1	16.2	17.5	17.8	14.3	16.9	14.0	15.9	10.0	2.8	2.0	0.9	0.9	0.7	0.7		

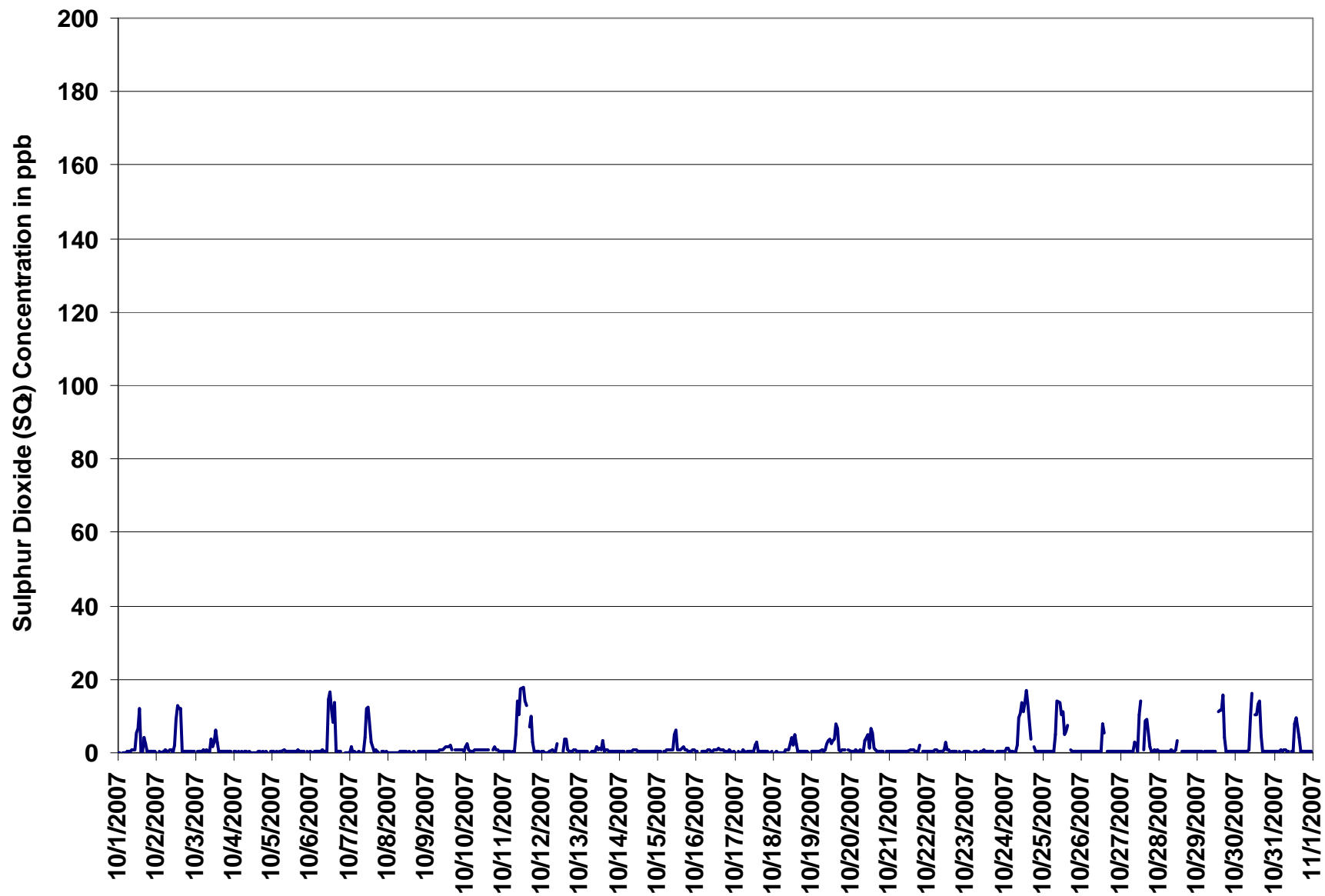
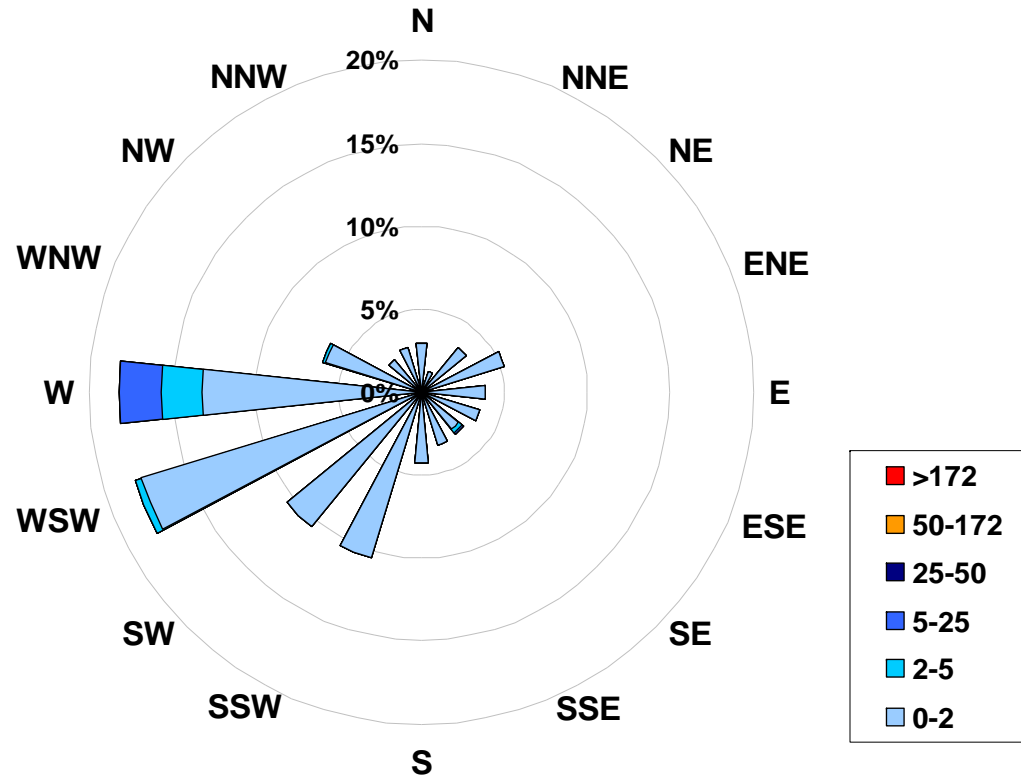


Figure 21. PASZA - Evergreen Park Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	667
2	to	5	23
5	to	25	19
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

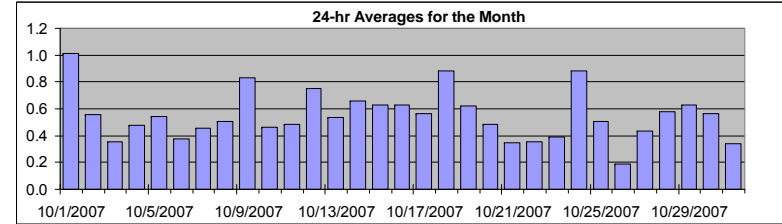
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: October 1, 2007 to November 1, 2007

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

Summary				
Maximum 1-hr Average:	2.4	ppb	19-Oct	7:00 8:00
Maximum 24-hr Value:	1.0	ppb	1-Oct	



AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.6	1.2	0.7	0.5	0.3	0.0	0.0	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-Oct-07	1	1	A	1	1	0	0	1	1	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.9
2-Oct-07	1	A	0	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	0	0	0.6	1.0	
3-Oct-07	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	A	0	0.4	1.0	
4-Oct-07	0	0	0	0	0	0	0	1	0	1	1	1	0	1	1	1	1	0	1	1	1	1	A	0	0	0.5	1.0	
5-Oct-07	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	0	0	1	1	1	1	A	1	1	1	0.5	0.7	
6-Oct-07	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	A	0	0	0	0	0.4	0.7	
7-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	A	1	1	1	0	0	0.5	0.8	
8-Oct-07	0	1	0	0	0	0	0	0	0	1	1	0	0	1	1	1	1	0	A	1	1	1	1	1	1	0.5	1.2	
9-Oct-07	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	A	0	0	1	1	1	1	1	0.8	1.4	
10-Oct-07	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	A	0	0	1	0	0	0	0	0	0.5	1.2	
11-Oct-07	0	0	1	0	0	0	0	0	1	1	1	1	1	1	1	A	1	1	0	1	1	1	1	1	1	0.5	1.0	
12-Oct-07	0	0	0	1	1	1	1	1	0	0	0	0	C	C	C	A	2	2	1	1	1	1	1	1	1	0.8	1.7	
13-Oct-07	1	0	0	1	1	A	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0.5	1.1	
14-Oct-07	1	1	1	1	A	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	1	1	1	0.7	1.1	
15-Oct-07	1	1	0	A	1	1	0	0	1	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0.6	1.6	
16-Oct-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	1	0	0.6	1.0	
17-Oct-07	1	A	1	0	0	0	0	0	0	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0.6	1.1	
18-Oct-07	A	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	0	0	1	0	A	0	0.9	1.8	
19-Oct-07	0	0	0	1	1	1	1	2	1	1	1	1	1	0	0	1	1	0	0	1	1	1	A	0	0	0.6	2.4	
20-Oct-07	0	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	0	0	A	1	0	0	0.5	1.2	
21-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	A	0	0	0	0.4	0.5	
22-Oct-07	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	A	0	0	0	0	0	0.4	2.0	
23-Oct-07	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1	1	1	A	0	0	0	0	0	1	0.4	0.8	
24-Oct-07	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	A	1	1	0	1	0	0	0.9	1.5	
25-Oct-07	0	0	0	0	0	1	1	1	1	1	1	1	0	0	1	1	A	1	0	0	0	1	0	0	0	0.5	1.3	
26-Oct-07	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.2	0.7	
27-Oct-07	0	0	0	0	1	0	0	0	1	1	1	1	1	1	A	0	0	0	0	0	0	0	0	0	1	0.4	1.1	
28-Oct-07	1	0	0	0	0	0	1	1	1	0	0	1	0	A	0	1	1	1	0	1	1	1	1	1	1	0.6	1.1	
29-Oct-07	0	0	0	1	1	0	0	1	1	1	1	0	A	1	1	1	1	0	0	1	1	0	1	1	1	0.6	1.3	
30-Oct-07	1	1	1	1	0	1	1	1	1	1	0	1	A	1	1	0	1	1	0	0	0	0	0	1	1	0.6	1.0	
31-Oct-07	0	0	0	0	0	1	0	1	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6	
Hourly Avg	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.5			
Hourly Max	1.2	1.4	1.5	1.1	1.1	1.3	1.2	2.4	1.4	1.8	2.0	1.4	1.1	1.9	1.2	1.1	1.7	1.6	1.5	1.0	1.5	1.4	1.5	1.2				

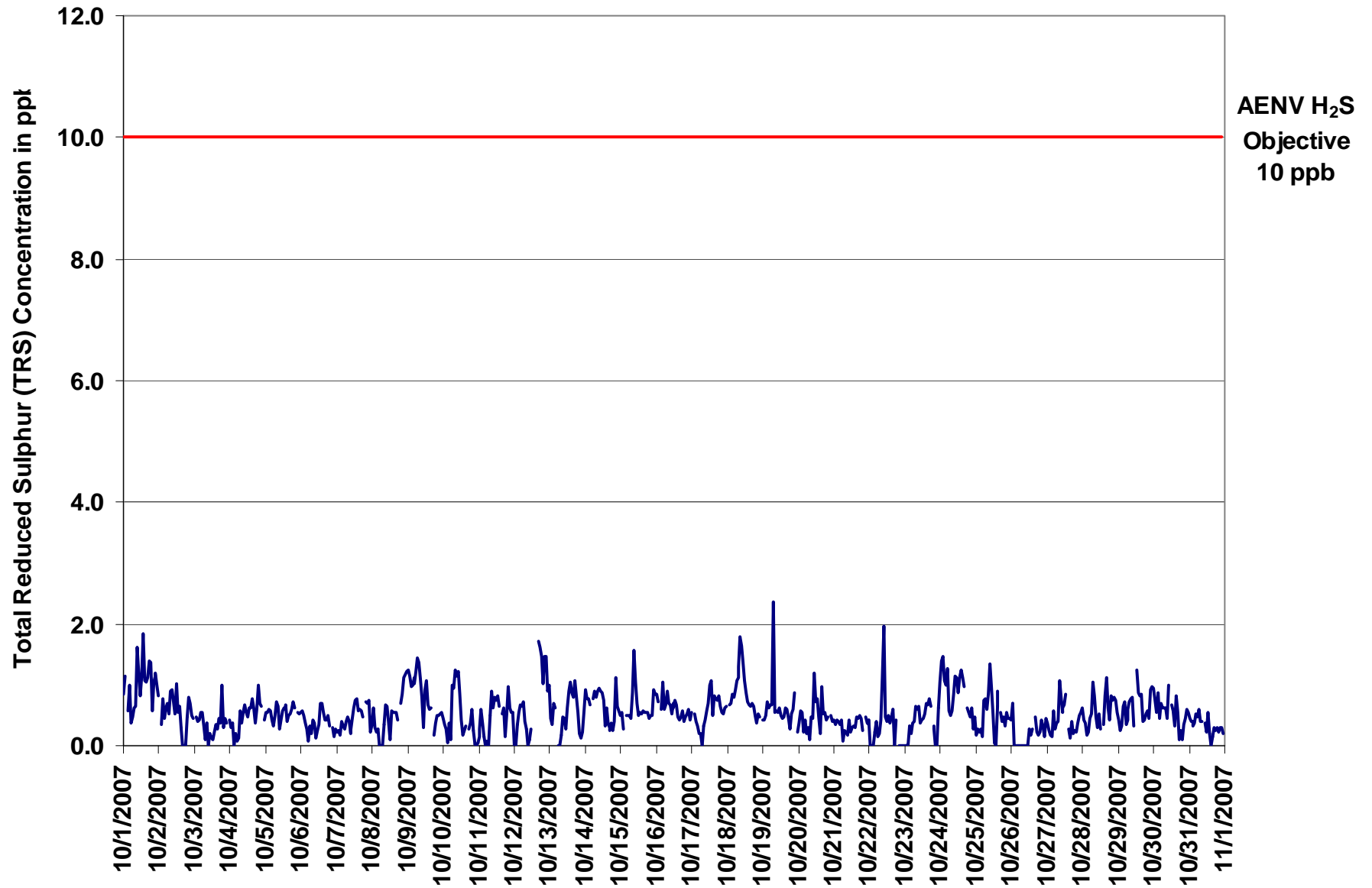


Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

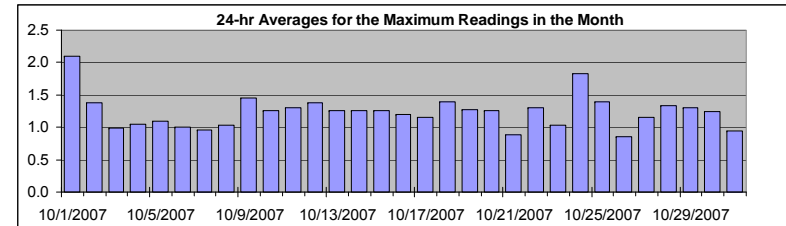
Total Reduced Sulphur (TRS)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	8.6	ppb	22-Oct	10:00 11:00
Maximum 24-hr Value:	2.1	ppb	1-Oct	

AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.9	2.1	1.4	1.1	0.9	0.6	0.4	1.2 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

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-Oct-07	3	2	A	1	2	1	1	1	1	5	4	2	3	3	2	2	2	2	1	2	2	2	2	2	2.1	5.1
2-Oct-07	2	A	1	2	1	1	1	1	2	2	1	1	2	1	2	2	1	1	1	1	1	1	1	1	1.4	2.2
3-Oct-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	A	1.0	2.1	
4-Oct-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	A	1	1.1	1.6	
5-Oct-07	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.1	1.7	
6-Oct-07	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	A	1	1	1	1.0	1.8	
7-Oct-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	1.3	
8-Oct-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	2	2	2	1.0	2.0	
9-Oct-07	2	2	1	2	2	2	2	2	2	2	1	1	2	1	1	1	A	1	1	2	1	1	1	1.5	1.9	
10-Oct-07	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	A	1	1	1	1	1	1	1	1.3	2.4	
11-Oct-07	1	1	1	1	1	0	1	1	2	2	1	2	2	2	1	A	1	1	1	2	2	1	1	1.3	1.7	
12-Oct-07	0	1	1	1	1	1	1	1	1	1	2	2	C	C	C	A	2	2	2	1	2	2	2	1.4	2.2	
13-Oct-07	2	1	1	1	1	A	0	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1.3	1.6	
14-Oct-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1.3	2.5	
15-Oct-07	1	1	1	A	1	1	1	1	1	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1.3	3.9	
16-Oct-07	1	1	A	1	3	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	2.9	
17-Oct-07	1	A	1	1	1	1	1	0	1	1	1	1	2	2	1	1	1	1	1	1	1	1	2	1.2	2.4	
18-Oct-07	A	1	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	A	1.4	2.4	
19-Oct-07	1	1	1	1	1	1	1	5	1	1	1	1	1	1	1	1	1	1	2	1	2	A	1	1.3	5.4	
20-Oct-07	1	1	1	1	1	1	1	1	1	1	1	2	2	1	2	1	5	1	1	1	A	1	1	1.3	4.7	
21-Oct-07	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	
22-Oct-07	1	1	1	1	1	1	1	1	1	5	9	1	1	1	1	1	1	1	A	1	0	0	0	1.3	8.6	
23-Oct-07	1	0	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	A	1	1	0	1	2	1.0	1.8	
24-Oct-07	2	3	2	2	2	2	1	1	1	2	2	2	2	2	3	2	2	A	1	1	1	1	1	1.8	2.8	
25-Oct-07	1	1	1	1	1	2	1	2	3	3	3	1	1	1	2	2	A	1	1	1	1	1	1	1.4	2.7	
26-Oct-07	1	2	1	0	0	0	1	1	1	0	1	1	1	1	1	A	1	1	1	1	1	1	1	0.9	1.5	
27-Oct-07	1	1	1	1	1	1	1	1	2	2	1	1	1	2	A	1	1	1	1	1	1	1	1	1.2	2.0	
28-Oct-07	1	1	1	1	1	1	1	2	1	1	1	1	1	A	1	2	2	2	1	1	1	2	1	1.3	2.4	
29-Oct-07	1	1	1	1	1	1	1	1	1	1	2	1	A	2	2	2	2	1	1	1	1	2	1	1.3	2.0	
30-Oct-07	1	1	1	1	1	1	1	1	1	2	2	A	2	1	1	1	1	1	1	1	1	1	1	1.2	2.0	
31-Oct-07	1	1	1	1	1	1	1	1	1	1	A	1	1	2	2	0	1	1	1	1	1	1	1	0.9	1.6	
Hourly Avg	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.3	1.7	1.7	1.3	1.3	1.4	1.3	1.2	1.4	1.1	1.1	1.2	1.2	1.2	1.1	1.2		
Hourly Max	2.5	2.8	2.2	2.2	2.9	2.4	2.2	5.4	2.7	5.3	8.6	2.4	2.7	2.8	2.8	2.4	4.7	2.3	1.9	2.1	2.0	2.5	2.0	2.0		

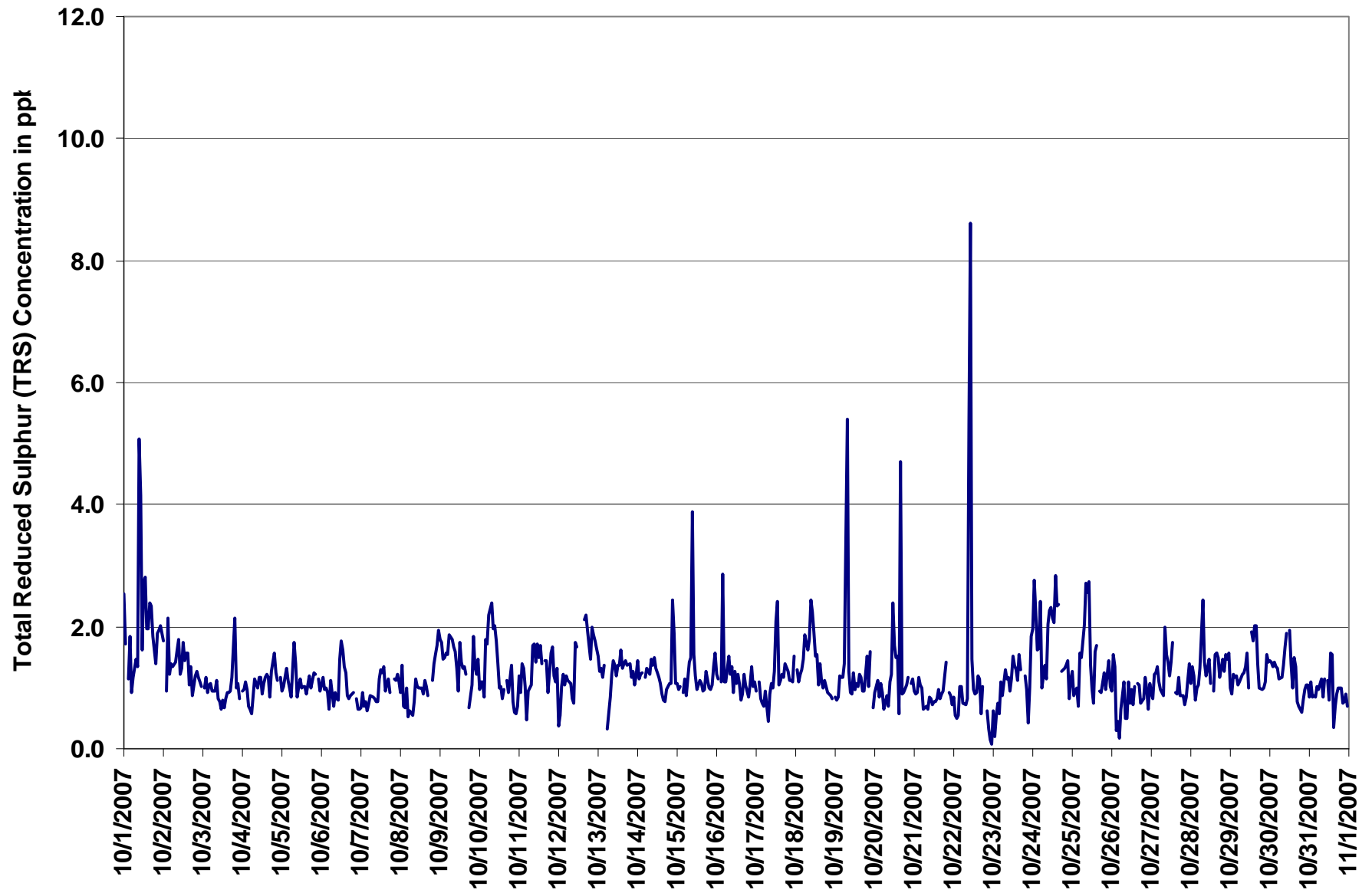
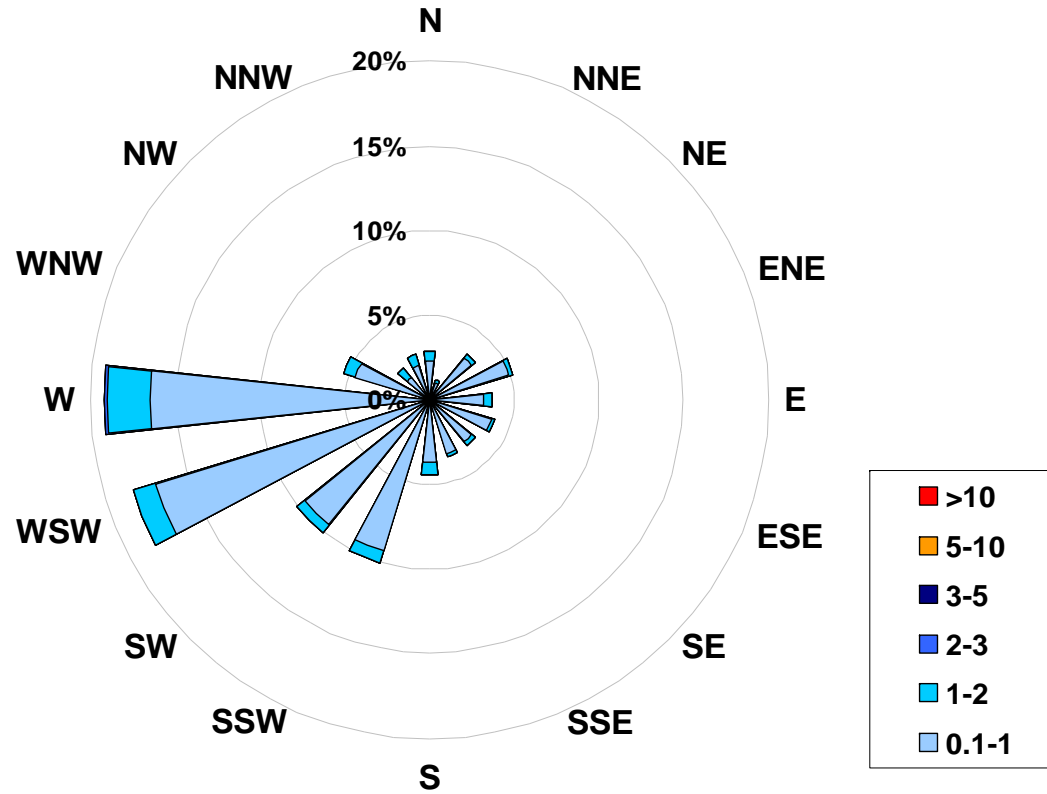


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	637
1	to	2	70
2	to	3	1
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			708

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

Station: Evergreen Park
 Station Owner: PASZA

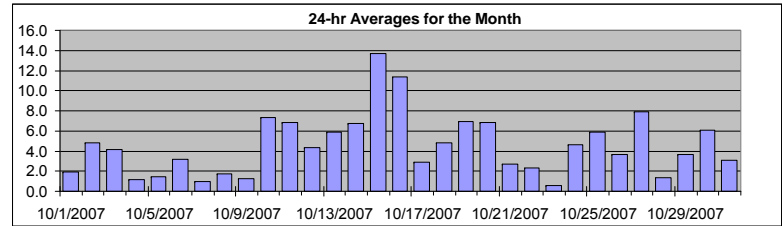
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2007 to November 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:	47.7 µg/m ³ 27-Oct 18:00 19:00
Maximum 24-hr Value:	13.7 µg/m ³ 15-Oct



AIC Time:	0 hrs	Operational Time:	734 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	98.9%
Percentile	99	95	75
	28.8	16.4	5.5
	50	25	5
	2.7	0.9	0.0
	1	0.0	0.0
	Average / Median		4.5
	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
1-Oct-07	0	1	0	1	1	2	2	3	4	2	2	0	6	14	0	1	3	2	0	0	0	0	0	0	0	1.9	13.6
2-Oct-07	0	0	0	0	0	3	3	2	9	2	1	1	24	29	21	11	1	0	1	3	2	2	2	2	4.9	29.3	
3-Oct-07	3	2	1	2	3	7	5	12	7	4	12	4	5	10	3	0	1	3	7	4	3	1	0	0	4.1	12.1	
4-Oct-07	0	1	1	1	1	1	1	1	1	0	0	1	1	1	1	2	1	5	3	3	1	1	0	0	1.2	5.0	
5-Oct-07	0	0	0	0	0	3	2	3	3	1	1	0	3	0	0	0	0	0	5	4	3	3	2	0	1.5	4.5	
6-Oct-07	1	0	2	1	2	1	3	5	3	2	3	11	11	10	8	8	2	1	0	1	0	0	0	0	3.1	11.3	
7-Oct-07	1	2	0	0	0	0	1	0	2	1	0	0	0	0	7	1	3	1	0	0	2	0	1	0	0.9	6.8	
8-Oct-07	1	1	2	1	1	1	0	1	5	0	0	0	0	0	0	1	1	1	3	5	6	5	3	3	1.7	5.8	
9-Oct-07	3	3	3	3	2	2	0	0	0	0	0	0	0	1	0	1	1	0	1	1	2	2	2	2	1.3	3.4	
10-Oct-07	3	3	2	1	3	4	17	12	14	15	12	18	7	8	6	4	4	4	11	8	8	5	4	3	7.4	18.5	
11-Oct-07	3	2	4	1	1	1	2	1	3	27	11	24	29	22	7	0	5	10	3	0	0	1	6	1	6.9	29.4	
12-Oct-07	D	1	1	1	1	2	5	5	6	6	3	7	C	C	8	6	3	3	5	5	4	9	7	4	4.4	8.9	
13-Oct-07	4	3	2	2	2	1	1	2	3	5	6	6	4	5	4	5	16	32	9	9	7	6	5	3	5.8	31.6	
14-Oct-07	4	5	4	3	4	4	6	8	9	5	10	12	2	3	4	4	6	8	10	9	11	12	10	9	6.7	11.7	
15-Oct-07	10	10	9	8	8	7	12	14	21	30	31	21	5	6	6	3	8	9	18	16	16	16	20	22	13.7	30.6	
16-Oct-07	21	18	16	15	13	10	13	15	16	8	P	11	10	12	12	11	8	10	19	14	3	3	4	1	11.4	21.1	
17-Oct-07	0	0	0	0	0	1	2	3	4	3	9	8	3	2	2	2	1	4	8	4	3	2	3	3	2.9	9.2	
18-Oct-07	3	3	2	2	3	2	3	4	14	17	16	10	5	2	1	1	1	4	5	3	4	5	3	4	4.8	16.6	
19-Oct-07	4	3	3	5	6	4	9	10	8	8	7	5	4	5	7	12	15	13	9	5	6	6	6	5	7.0	14.8	
20-Oct-07	5	5	5	5	5	6	7	12	19	17	14	7	6	9	6	5	6	5	3	3	4	3	3	3	6.8	19.1	
21-Oct-07	3	3	3	2	2	4	3	2	4	4	3	7	2	2	3	6	2	4	3	2	0	0	1	0	2.7	6.8	
22-Oct-07	0	0	0	0	0	3	7	1	3	10	9	3	2	2	3	2	0	0	0	0	1	1	3	1	2.3	10.1	
23-Oct-07	2	2	1	1	2	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	2.1	
24-Oct-07	1	0	0	0	1	6	4	0	0	10	17	14	8	16	16	5	D	0	0	1	0	0	2	3	4.6	17.1	
25-Oct-07	3	3	3	3	2	2	2	3	5	36	21	4	3	0	4	11	18	D	1	4	2	1	2	3	5.9	36.1	
26-Oct-07	2	4	3	2	1	0	2	8	1	0	0	2	1	5	8	5	11	10	7	5	2	3	3	2	3.6	10.6	
27-Oct-07	3	3	2	3	3	5	3	2	10	14	14	5	6	21	14	2	9	9	48	5	1	3	3	1	7.9	47.7	
28-Oct-07	1	1	0	0	0	2	2	3	4	2	2	2	3	0	0	0	1	3	2	1	2	1	1	0	1.3	3.7	
29-Oct-07	0	0	0	0	0	0	1	1	0	2	4	0	0	28	19	18	7	D	D	0	0	0	0	0	3.6	27.8	
30-Oct-07	1	1	1	1	1	2	4	4	6	8	25	19	21	0	1	31	D	D	0	0	2	2	1	3	6.1	31.0	
31-Oct-07	3	2	1	1	1	1	2	4	2	5	3	5	1	8	14	6	3	1	2	1	3	1	2	2	3.1	13.7	
Hourly Avg	2.9	2.7	2.3	2.1	2.3	2.9	4.0	4.6	6.0	7.7	7.9	6.9	5.8	7.4	6.0	5.3	4.8	5.1	6.0	3.7	3.2	3.0	3.1	2.7			
Hourly Max	21.1	18.4	16.1	15.0	12.8	10.4	16.7	14.6	21.4	36.1	30.6	24.2	29.4	29.3	20.7	31.0	17.8	31.6	47.7	15.9	16.3	15.7	20.5	22.1			

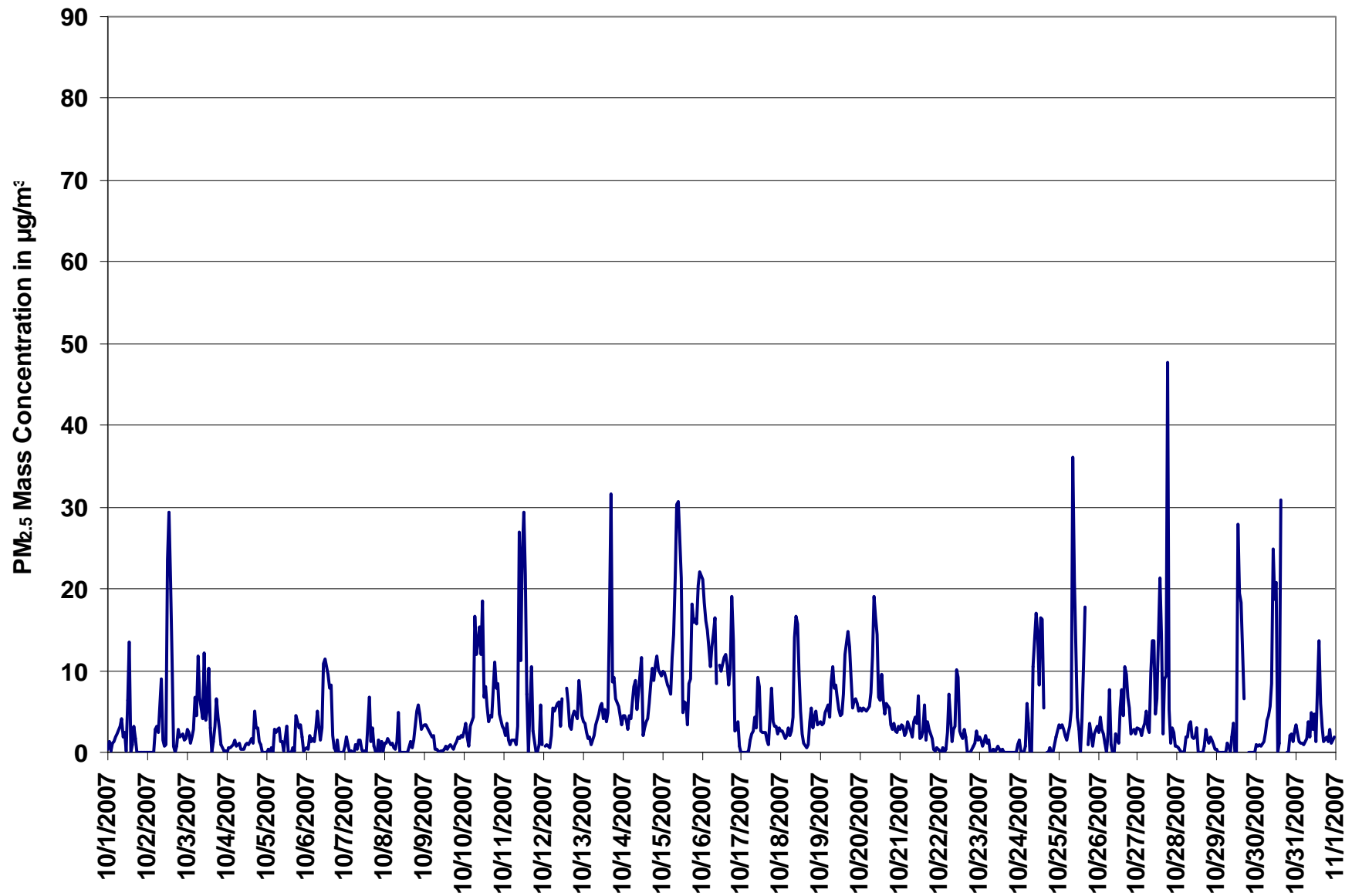


Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

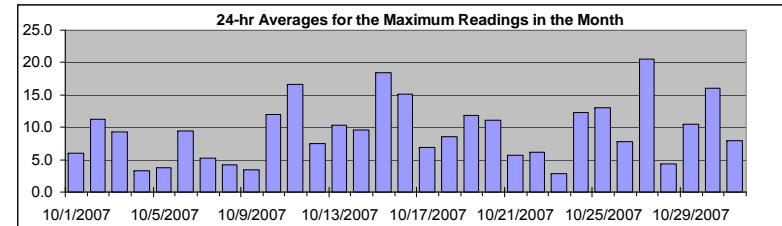
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	120.0	µg/m ³	27-Oct	18:00 19:00
Maximum 24-hr Value:	20.5	µg/m ³	27-Oct	



AIC Time:	0 hrs	Operational Time:	741 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	55.6	33.8	10.6	5.4	3.2	1.0	0.0	9.4	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

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-Oct-07	2	3	2	2	2	3	4	6	11	5	7	5	26	40	2	3	10	10	1	0	0	0	0	0	6.0	39.8
2-Oct-07	1	1	1	1	1	8	8	6	12	7	2	7	47	54	39	39	8	1	2	10	6	4	3	3	11.2	54.0
3-Oct-07	5	5	4	5	5	13	10	22	12	6	21	10	16	25	13	7	7	10	8	8	5	3	1	2	9.3	25.1
4-Oct-07	1	2	4	4	3	4	3	3	4	2	3	3	2	2	3	3	3	8	6	6	5	2	1	3	3.3	8.0
5-Oct-07	2	2	2	3	2	5	4	5	6	3	3	2	7	1	2	1	2	3	8	8	5	5	4	3	3.7	8.5
6-Oct-07	3	4	6	4	5	4	5	12	5	4	7	43	34	37	14	25	5	2	3	3	1	0	1	1	9.4	43.1
7-Oct-07	4	6	2	2	2	2	2	3	5	4	4	3	2	2	30	21	6	5	6	3	5	3	3	3	5.3	30.4
8-Oct-07	3	3	5	3	3	4	2	4	13	1	1	1	2	2	1	3	2	5	6	7	9	8	5	6	4.1	12.8
9-Oct-07	5	5	6	5	4	5	2	3	4	3	4	2	2	3	2	3	3	3	3	2	3	3	3	4	3.5	5.8
10-Oct-07	5	6	6	4	6	11	24	18	24	25	18	26	12	13	12	6	7	7	16	11	11	8	6	6	12.0	25.5
11-Oct-07	5	5	11	11	3	3	3	3	20	49	22	50	65	46	32	3	13	26	6	0	2	4	14	4	16.7	65.2
12-Oct-07	3	3	4	4	4	4	8	7	10	11	6	20	C	C	11	11	5	4	7	7	7	13	10	8	7.6	20.0
13-Oct-07	7	6	5	4	5	4	5	5	7	7	12	12	5	8	7	6	37	51	15	11	8	7	7	5	10.3	50.6
14-Oct-07	7	6	5	5	6	5	10	10	12	9	17	21	5	5	5	6	9	11	13	13	13	15	12	11	9.5	21.1
15-Oct-07	11	12	11	11	11	9	14	18	34	35	38	43	12	9	7	7	12	13	26	20	18	19	27	25	18.4	43.1
16-Oct-07	23	20	18	17	15	13	14	20	21	12	P	13	12	13	15	16	11	13	33	21	8	7	6	4	15.1	33.2
17-Oct-07	3	2	3	1	3	4	6	5	8	6	17	21	10	5	11	4	7	10	12	5	7	6	4	5	6.8	21.0
18-Oct-07	5	6	5	5	7	5	7	7	23	20	20	18	13	4	5	2	2	6	10	4	8	7	6	7	8.5	23.4
19-Oct-07	6	6	6	7	8	6	12	16	12	22	13	15	7	9	14	29	25	19	14	7	8	9	8	7	11.8	28.9
20-Oct-07	8	7	7	8	7	7	10	21	27	22	26	17	8	19	16	9	8	10	4	4	5	4	4	6	11.1	27.3
21-Oct-07	5	6	6	5	4	6	7	4	6	8	7	15	4	3	6	8	10	6	6	5	5	1	2	2	5.7	14.9
22-Oct-07	2	0	5	1	3	9	11	7	7	8	20	20	17	5	3	5	4	2	2	2	3	3	4	3	6.1	20.4
23-Oct-07	3	5	4	3	4	4	5	1	2	5	2	4	3	2	4	2	1	0	2	1	0	2	2	6	2.8	5.7
24-Oct-07	4	1	2	2	4	12	13	1	2	27	28	31	26	36	51	27	0	5	4	5	2	4	4	5	12.3	51.1
25-Oct-07	5	5	5	5	5	4	4	5	8	67	34	22	25	8	16	23	44	0	4	6	6	3	4	5	13.1	67.3
26-Oct-07	5	7	6	7	3	3	5	14	5	3	3	4	2	20	17	10	16	15	10	10	7	6	5	4	7.7	19.9
27-Oct-07	5	6	5	6	6	8	7	8	18	27	32	6	12	57	30	4	24	29	120	67	3	5	4	3	20.5	120.0
28-Oct-07	3	3	1	2	5	5	4	6	6	4	4	9	17	4	4	1	3	5	4	3	4	3	2	1	4.3	17.0
29-Oct-07	1	1	1	0	0	1	3	2	1	6	6	0	16	53	53	40	62	0	0	0	0	0	1	2	10.5	61.8
30-Oct-07	4	3	3	3	3	5	5	6	9	38	62	41	42	27	40	62	9	0	0	1	6	4	3	5	16.0	62.0
31-Oct-07	6	4	3	3	4	3	5	8	4	8	5	7	3	35	47	11	7	3	3	3	5	3	4	6	7.9	47.4
Hourly Avg	4.9	4.9	4.9	4.6	4.6	5.8	7.3	8.3	10.9	14.6	14.8	15.9	15.2	18.2	16.6	12.8	11.6	9.1	11.4	8.2	5.6	5.2	5.2	5.0		
Hourly Max	23.4	20.1	17.9	16.8	14.8	13.0	24.5	22.1	33.8	67.3	61.9	49.9	65.2	56.7	53.0	62.0	61.8	50.6	120.0	67.4	18.4	18.5	26.6	25.5		

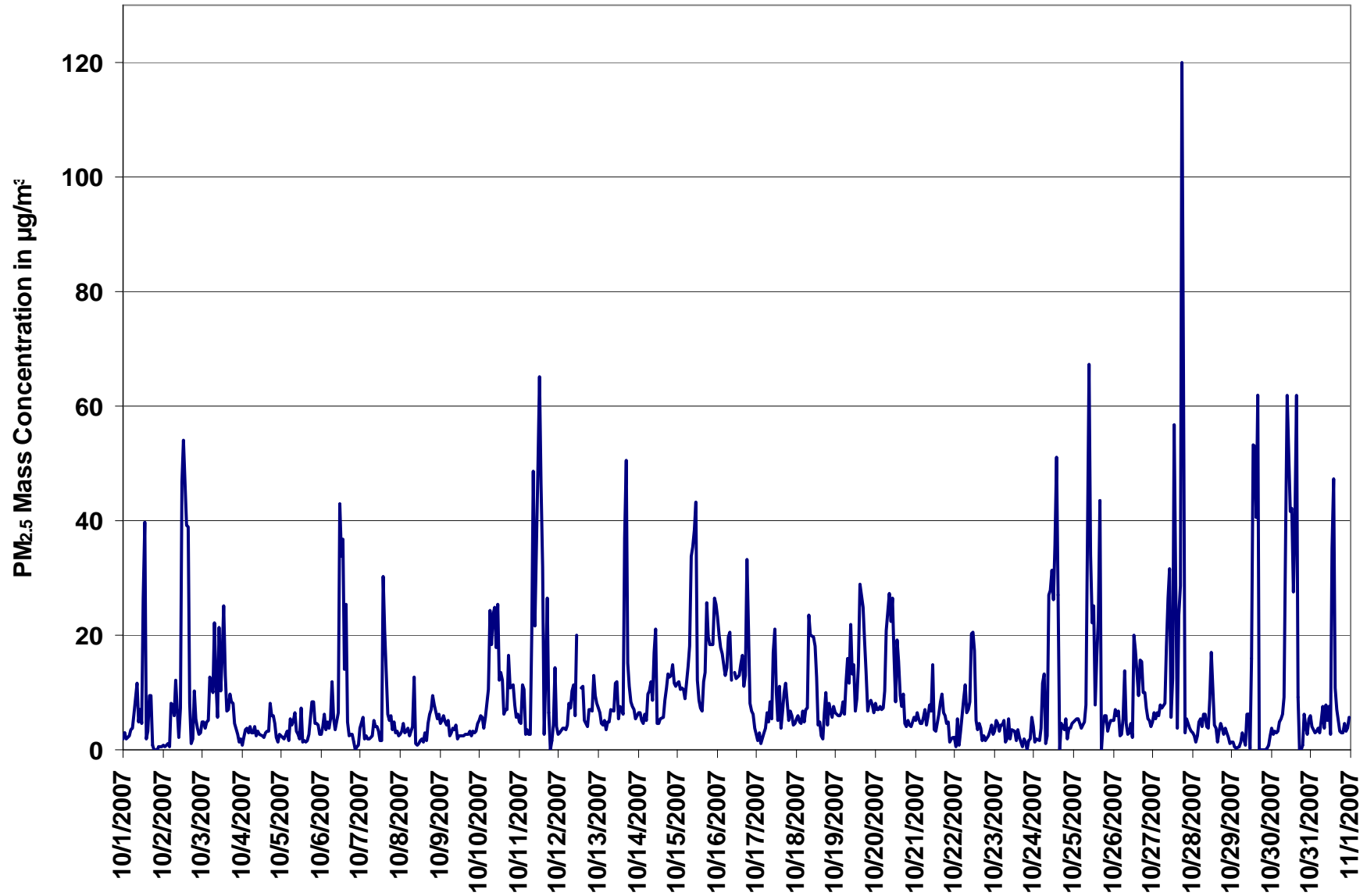
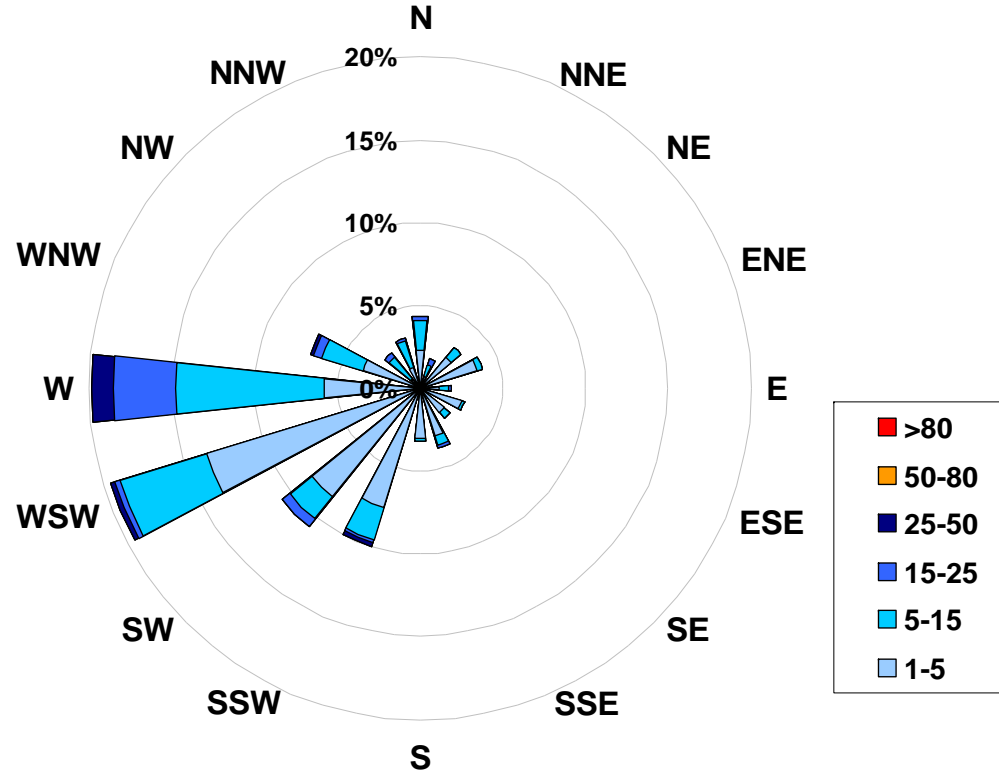


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	528
5	to	15	159
15	to	25	37
25	to	50	10
50	to	80	0
	>	80	0
Total Non-Zero Values			734

PASZA - Evergreen Park Temperature Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

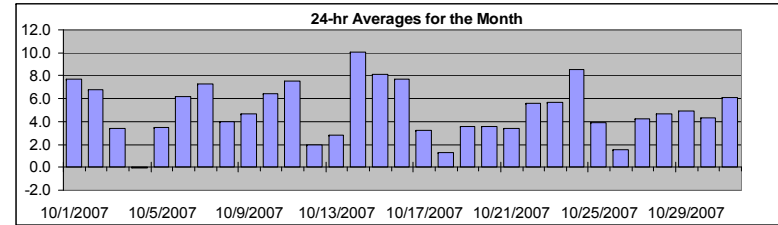
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	18.2 °C	15-Oct	15:00 16:00
Maximum 24-hr Value:	10.1 °C	14-Oct	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	16.2	12.1	8.0	4.6	1.8	-2.8	-4.5	4.9 °C	4.6 °C

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Oct-07	5	5	5	4	4	4	4	4	5	7	9	11	12	12	13	12	12	11	10	9	9	7	7	4	7.7	12.6	
2-Oct-07	2	3	4	4	5	3	5	3	4	7	8	9	12	12	12	12	11	10	9	8	7	6	4	3	6.8	11.9	
3-Oct-07	1	1	-2	-2	-2	-1	0	1	4	5	6	8	9	7	7	8	7	6	4	5	4	3	2	2	3.4	8.5	
4-Oct-07	1	0	-1	-1	-1	-2	-2	-2	-1	-1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	0.0	1.3	
5-Oct-07	1	1	1	1	1	1	0	0	0	1	2	4	6	9	10	11	11	9	5	3	2	2	1	1	3.5	11.2	
6-Oct-07	1	3	3	2	4	4	4	4	7	9	10	10	11	11	12	11	11	10	7	6	3	2	0	1	6.2	11.8	
7-Oct-07	4	4	3	4	4	4	3	3	4	5	10	12	14	16	15	9	9	9	9	8	8	7	6	5	7.3	16.2	
8-Oct-07	5	4	2	2	0	-2	-3	-3	0	6	8	9	10	11	12	12	12	10	5	1	0	-2	-2	-3	4.0	12.4	
9-Oct-07	-4	-4	-5	-5	-5	-4	-3	-2	1	4	5	8	9	10	11	12	12	11	11	11	11	10	9	7	4.6	11.6	
10-Oct-07	9	9	8	4	3	3	3	3	3	4	5	7	9	10	10	11	10	10	8	6	5	4	4	4	6.4	10.8	
11-Oct-07	4	3	2	8	7	7	8	7	9	10	11	12	13	13	13	13	13	12	9	5	2	1	0	-1	7.6	13.2	
12-Oct-07	-2	-3	-3	-4	-4	-4	-4	-4	-1	3	6	8	10	11	11	11	11	9	4	1	-1	-2	-2	-3	1.9	11.2	
13-Oct-07	-3	-3	-4	-3	-3	-4	-4	-4	-3	0	2	6	10	12	14	15	14	10	7	4	3	2	2	1	2.8	14.6	
14-Oct-07	2	4	5	5	5	5	4	4	7	11	14	15	17	18	17	18	16	15	13	11	10	9	9	8	10.1	18.0	
15-Oct-07	7	7	6	6	6	4	3	3	4	6	9	13	14	15	16	18	16	12	8	6	4	4	4	3	8.1	18.2	
16-Oct-07	3	4	4	4	4	4	4	5	5	7	9	10	11	12	13	12	12	11	10	9	9	8	8	6	7.7	12.8	
17-Oct-07	4	2	1	-1	-1	-1	-2	-1	-1	0	4	8	9	11	12	12	12	10	5	2	0	-1	-2	-2	3.2	12.2	
18-Oct-07	-3	-3	-4	-4	-5	-5	-6	-6	-4	1	4	7	9	10	10	10	9	7	4	2	1	1	-1	-1	1.3	10.4	
19-Oct-07	-1	0	0	0	1	1	1	1	1	2	4	6	7	8	9	9	9	7	6	5	4	3	3	2	3.6	9.4	
20-Oct-07	1	1	0	1	2	2	1	0	0	3	5	6	6	7	7	8	8	6	4	3	4	4	3	2	3.6	8.0	
21-Oct-07	1	0	1	-1	-3	-3	-2	-3	-3	-1	2	4	5	6	8	9	8	7	5	7	8	9	8	8	3.4	8.9	
22-Oct-07	6	6	8	7	5	4	4	4	6	7	8	8	7	7	6	6	5	5	4	4	4	4	4	4	5.6	7.8	
23-Oct-07	5	5	5	5	5	4	4	4	4	5	6	7	7	8	8	8	8	7	6	6	5	4	4	5	5.7	8.2	
24-Oct-07	9	9	10	11	8	8	12	10	10	10	10	9	9	9	10	10	9	8	7	6	6	6	5	5	8.6	11.5	
25-Oct-07	4	4	4	3	3	3	2	2	3	4	5	6	7	6	6	6	6	5	4	3	2	2	2	2	3.9	6.7	
26-Oct-07	2	2	0	-1	-1	-1	-2	-2	-3	0	1	3	4	6	8	8	7	6	3	2	-1	-2	-2	-1	1.5	8.0	
27-Oct-07	-1	-2	-2	-3	-3	-2	-1	0	0	3	6	9	11	12	12	11	10	10	9	7	6	4	4	4	4.3	11.8	
28-Oct-07	3	4	4	1	0	1	2	2	3	4	6	8	8	9	8	8	8	8	6	5	5	5	4	4	4.7	8.6	
29-Oct-07	4	4	4	4	4	4	4	4	4	4	5	7	7	8	8	7	7	6	5	4	4	3	3	2	4.9	8.0	
30-Oct-07	2	2	2	2	2	2	2	2	1	3	5	6	7	7	7	7	6	6	5	5	5	5	5	6	4.3	7.4	
31-Oct-07	6	6	6	6	5	4	2	2	5	5	7	8	10	11	11	10	8	7	6	5	5	4	4	3	6.1	11.3	
Hourly Avg	2.6	2.5	2.2	1.9	1.6	1.4	1.4	1.3	2.4	4.4	6.1	7.8	9.1	9.9	10.3	10.2	9.7	8.3	6.4	5.2	4.2	3.6	3.1	2.7			
Hourly Max	8.5	9.5	10.3	10.7	8.2	7.6	11.5	10.4	9.8	11.5	13.6	15.2	17.1	17.5	17.5	18.2	16.4	14.8	12.9	11.3	11.0	10.3	8.8	7.8			

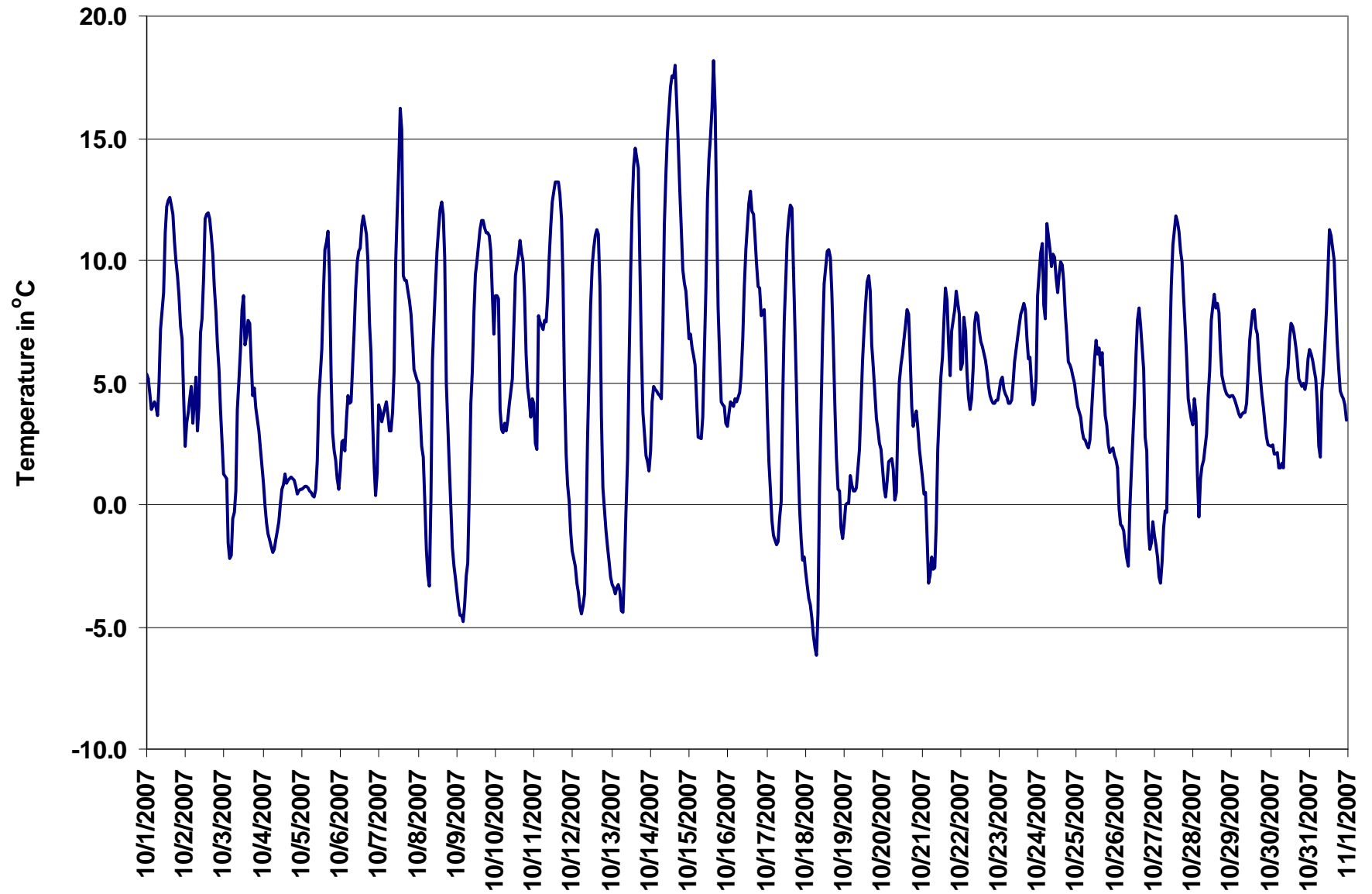


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

PASZA - Evergreen Park Scalar Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

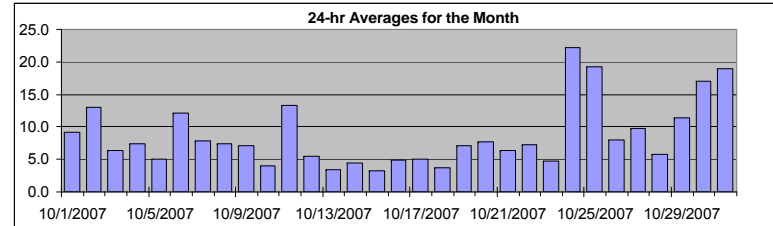
Wind Speed (WSs)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	33.4	km/hr	31-Oct	15:00 16:00
Maximum 24-hr Value:	22.2	km/hr	24-Oct	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	29.8	23.1	10.9	6.2	3.8	2.6	2.1	8.7 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Oct-07	3	4	3	4	4	5	5	5	6	11	12	15	21	17	14	11	14	14	15	12	10	6	7	4		9.2	20.9
2-Oct-07	3	4	5	6	6	4	8	4	6	13	8	16	28	28	28	27	24	22	19	16	12	12	6	6		13.0	28.3
3-Oct-07	5	5	3	3	3	3	2	3	6	7	11	11	11	6	11	11	8	3	3	4	7	7	8	10		6.3	11.3
4-Oct-07	11	11	11	10	10	7	8	7	8	9	9	8	7	8	6	7	5	6	5	4	6	5	5	5		7.4	11.2
5-Oct-07	4	4	3	2	4	6	8	7	8	7	6	6	6	7	8	7	4	3	3	3	2	2	2	6		5.1	8.3
6-Oct-07	6	7	6	6	6	9	11	9	17	20	26	22	19	27	26	20	20	12	5	5	3	3	3	5		12.1	26.6
7-Oct-07	5	5	6	6	6	5	4	4	3	4	6	7	8	8	13	21	14	13	12	12	9	4	5	11		7.9	21.1
8-Oct-07	12	9	6	8	5	4	3	4	4	14	18	13	11	11	13	10	12	6	3	3	2	3	2	2		7.4	17.7
9-Oct-07	2	2	3	3	3	6	7	7	8	9	8	9	10	9	10	10	9	11	11	11	10	6	4	4		7.1	11.5
10-Oct-07	6	5	7	4	4	3	3	3	4	4	3	3	4	3	3	4	5	4	6	4	4	4	4	6		4.0	6.8
11-Oct-07	4	3	7	14	13	15	16	14	19	16	21	24	24	24	25	22	19	12	7	3	3	5	5	4		13.3	24.8
12-Oct-07	3	2	3	2	3	4	6	6	5	6	8	10	12	12	11	10	7	4	3	3	3	4	3	3		5.5	12.5
13-Oct-07	3	3	3	3	2	2	2	3	4	3	3	4	7	4	5	4	5	3	5	4	3	3	2	3		3.4	6.5
14-Oct-07	4	4	3	3	2	3	2	3	4	4	3	7	9	9	7	6	6	5	5	4	3	3	3	3		4.4	9.3
15-Oct-07	3	3	3	3	3	3	3	2	3	3	5	3	5	3	3	7	5	3	3	4	2	3	2	2		3.3	7.4
16-Oct-07	3	3	3	4	4	3	3	4	6	5	5	5	6	6	6	6	4	3	5	5	7	7	10	4		4.8	9.6
17-Oct-07	4	4	4	3	3	4	3	2	3	4	6	7	9	12	12	11	8	4	4	4	3	3	3	4		5.1	12.4
18-Oct-07	3	5	3	3	3	2	2	2	3	3	3	3	6	4	5	6	5	4	4	3	4	4	3	3		3.7	6.3
19-Oct-07	4	4	4	5	7	6	6	7	6	11	11	9	9	10	10	11	10	7	7	7	5	5	5	7		7.1	10.9
20-Oct-07	6	5	3	4	7	8	5	4	4	8	10	10	11	11	11	9	10	9	6	5	7	10	11	9		7.6	11.3
21-Oct-07	6	9	8	5	3	2	3	3	3	3	4	6	5	5	6	7	6	6	5	11	14	14	12	9		6.4	14.0
22-Oct-07	5	8	11	8	7	4	3	5	9	10	7	9	6	6	6	9	9	10	6	7	6	9	8	8		7.3	10.7
23-Oct-07	6	7	5	4	5	3	4	5	6	7	7	6	5	5	5	5	4	3	4	3	3	4	4	6		4.7	6.9
24-Oct-07	9	8	9	8	5	7	19	20	30	32	31	31	30	29	30	27	27	25	26	20	26	29	27	27		22.2	31.9
25-Oct-07	25	23	24	22	22	20	21	20	20	22	23	23	19	19	17	16	17	15	14	15	14	14	18	16		19.3	24.9
26-Oct-07	16	15	9	6	7	8	6	5	5	6	7	7	7	10	14	13	12	9	5	7	4	4	4	4		7.9	16.0
27-Oct-07	3	4	4	4	3	5	5	5	5	8	6	10	12	22	24	21	16	17	10	13	12	8	9	6		9.7	24.1
28-Oct-07	8	10	8	4	4	4	5	6	7	6	5	8	10	11	9	6	5	4	4	3	3	3	3	4		5.8	10.9
29-Oct-07	4	4	3	3	4	2	4	6	4	6	10	12	13	21	20	18	18	20	18	16	15	16	18	20		11.3	20.6
30-Oct-07	19	17	17	16	15	13	14	13	11	15	20	19	27	27	23	21	13	22	18	19	15	11	10	14		17.0	26.8
31-Oct-07	21	23	22	17	16	10	6	10	16	10	16	17	16	20	30	33	30	23	16	17	21	22	22	18		18.9	33.4
1-hr Average	6.9	7.0	6.7	6.2	6.1	5.8	6.3	6.4	7.8	9.2	10.2	10.9	12.0	12.7	13.2	12.8	11.5	9.7	8.2	7.9	7.8	7.5	7.3	7.5			
Hourly Max	24.9	23.0	23.7	22.3	21.6	20.4	20.9	20.4	30.1	31.9	31.0	31.4	29.6	28.5	30.3	33.4	30.0	24.7	26.1	19.6	25.9	28.6	26.6	27.3			

PASZA - Evergreen Park Vector Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

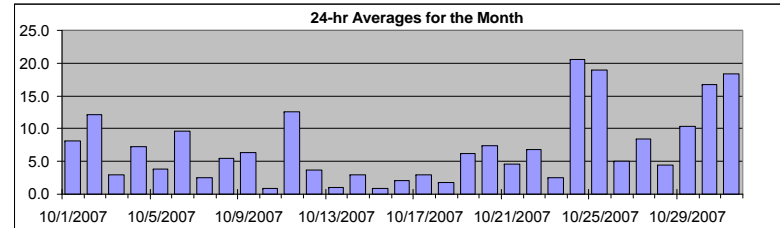
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	33.1	km/hr	31-Oct	15:00 16:00
Maximum 24-hr Value:	20.5	km/hr	24-Oct	



Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	29.6	22.8	10.6	5.7	3.1	0.9	0.4	34.3 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Oct-07	3	4	2	4	4	4	5	5	5	10	12	15	21	17	14	10	14	14	15	12	10	6	7	1		8.1	20.6
2-Oct-07	2	3	4	6	6	3	8	2	5	13	8	15	27	28	28	26	24	22	19	16	12	12	6	5		12.1	28.0
3-Oct-07	4	4	3	1	1	2	1	2	6	7	11	11	10	2	10	8	8	1	2	4	7	7	7	10		3.0	10.8
4-Oct-07	11	11	11	10	10	7	8	7	7	8	9	8	7	7	6	6	5	5	5	4	6	5	5	4		7.3	11.0
5-Oct-07	3	3	2	0	3	5	8	7	8	6	5	5	5	6	5	7	6	4	2	2	2	1	1	5		3.8	8.0
6-Oct-07	6	7	6	6	6	9	10	9	17	20	26	21	18	26	25	20	20	12	3	2	3	0	2	5		9.5	26.3
7-Oct-07	3	3	6	6	6	5	3	4	2	3	5	6	7	8	5	21	13	12	11	12	9	4	4	10		2.6	20.7
8-Oct-07	12	9	5	7	3	2	0	3	4	13	17	12	10	9	12	9	12	5	2	1	1	2	1	1		5.5	17.5
9-Oct-07	1	0	0	2	3	6	7	7	7	9	7	8	9	9	8	9	10	9	10	11	10	6	3	4		6.4	11.3
10-Oct-07	5	4	4	2	1	1	3	2	2	1	0	2	1	1	1	3	4	2	5	1	4	4	3	6		0.9	5.9
11-Oct-07	4	2	6	14	12	15	16	14	19	15	20	23	24	24	24	22	19	12	7	3	3	5	5	4		12.6	24.4
12-Oct-07	3	2	1	2	3	4	6	6	5	5	7	10	12	11	10	9	5	4	1	2	3	3	2	3		3.6	11.9
13-Oct-07	1	2	1	2	0	1	1	1	4	3	1	3	6	3	4	4	4	2	3	3	3	1	1	1		1.1	5.8
14-Oct-07	3	4	3	1	1	0	0	3	2	3	2	6	9	9	6	6	6	5	5	3	2	3	2	0		2.9	8.9
15-Oct-07	3	1	2	2	2	2	1	2	1	1	4	2	4	2	3	7	4	1	1	2	1	2	2	1		0.9	6.9
16-Oct-07	2	3	1	1	1	2	1	1	5	4	4	4	6	4	6	5	3	3	2	4	4	4	9	4		2.1	9.3
17-Oct-07	2	1	3	2	2	3	0	1	2	4	5	6	7	11	12	10	8	4	4	3	1	1	1	0		2.9	11.7
18-Oct-07	1	5	1	2	1	0	1	1	1	1	1	1	5	3	5	6	5	4	4	3	4	2	2	1		1.8	6.2
19-Oct-07	1	0	1	4	6	5	6	6	5	11	10	9	9	9	9	10	10	6	6	6	4	5	5	7		6.2	10.6
20-Oct-07	6	5	3	4	7	7	5	3	4	8	10	9	11	11	11	9	10	9	5	5	7	10	11	9		7.4	11.1
21-Oct-07	6	9	8	3	1	1	1	3	1	1	4	5	5	5	5	6	6	6	5	11	14	14	12	9		4.6	14.0
22-Oct-07	5	8	10	7	7	3	3	5	9	10	7	8	6	5	6	9	9	10	6	7	6	9	8	8		6.8	10.4
23-Oct-07	5	6	4	3	5	3	1	4	6	6	7	5	4	4	4	4	3	3	3	1	3	3	3	5		2.5	6.5
24-Oct-07	9	8	9	8	4	6	18	20	30	32	31	31	29	28	30	27	27	25	26	19	26	28	26	27		20.5	31.7
25-Oct-07	25	23	24	22	21	20	21	20	20	22	23	23	19	19	17	16	17	15	14	15	14	14	18	16		18.9	24.8
26-Oct-07	16	12	9	6	6	8	6	4	5	5	7	7	7	9	14	13	12	9	5	7	3	4	3	3		5.1	15.9
27-Oct-07	2	4	4	4	3	5	4	4	4	8	5	9	11	22	24	20	16	17	10	13	12	8	8	6		8.5	24.0
28-Oct-07	8	10	7	3	3	4	4	2	6	6	4	7	10	10	9	6	4	3	4	2	1	3	3	4		4.5	10.4
29-Oct-07	4	4	2	2	3	2	4	6	4	6	9	11	13	20	19	18	18	20	17	16	15	16	18	20		10.4	20.5
30-Oct-07	19	17	17	16	15	13	13	13	11	15	20	18	27	26	23	21	13	22	18	19	15	11	10	14		16.7	26.5
31-Oct-07	21	23	22	17	16	10	5	9	16	10	15	17	16	19	30	33	30	23	16	17	21	22	21	18		18.3	33.1
1-hr Vector	4.0	4.1	3.1	3.5	3.1	2.9	3.5	3.2	5.0	6.3	7.3	7.5	8.0	9.2	9.8	9.1	7.7	7.4	5.9	5.6	5.1	5.2	4.9	4.6			
Hourly Max	24.8	22.8	23.6	22.2	21.5	20.3	20.8	20.3	29.7	31.7	30.7	31.2	29.4	28.3	30.0	33.1	29.8	24.6	26.0	19.4	25.8	28.5	26.4	27.1			

PASZA - Evergreen Park Wind Direction Monthly Summary

Station: Evergreen Park
Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2007 to November 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
	353.0	319.0	263.5	235.7	166.2	49.9	8.9	266 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Oct-07	35	303	285	220	210	227	218	231	241	256	252	262	252	267	277	277	258	259	242	236	231	214	212	88	251	WSW	
2-Oct-07	92	183	200	199	196	230	235	241	223	244	216	242	273	266	263	261	260	257	257	262	260	257	239	240	252	WSW	
3-Oct-07	264	270	36	107	25	298	62	269	297	291	278	285	286	256	261	295	37	278	318	330	50	55	64	66	313	NW	
4-Oct-07	64	59	62	61	57	51	46	47	49	51	45	52	56	63	78	58	64	71	69	74	71	73	81	85	60	ENE	
5-Oct-07	97	81	155	251	123	234	247	237	242	218	216	205	182	192	168	158	161	183	234	214	196	257	291	203	201	SSW	
6-Oct-07	194	183	197	195	190	195	216	232	245	249	257	267	276	270	270	278	266	280	340	227	75	129	126	93	252	WSW	
7-Oct-07	113	133	84	94	96	101	91	61	64	116	129	146	141	130	261	289	279	260	235	239	234	260	248	233	219	SW	
8-Oct-07	230	233	217	201	119	242	86	69	255	252	262	255	271	291	279	290	231	264	327	298	270	237	329	10	256	WSW	
9-Oct-07	5	150	35	151	92	80	77	73	88	105	107	116	139	133	122	127	129	135	132	135	135	113	92	103	115	ESE	
10-Oct-07	138	157	179	303	230	86	262	1	306	310	293	95	91	50	73	359	49	158	266	135	214	226	204	203	196	SSW	
11-Oct-07	217	223	236	249	242	244	247	239	243	263	258	274	271	274	272	276	279	264	249	219	217	215	217	206	257	WSW	
12-Oct-07	206	342	42	184	178	202	203	206	227	246	252	255	276	284	290	294	349	46	192	182	220	217	256	202	254	WSW	
13-Oct-07	216	219	306	192	295	80	349	28	61	61	353	152	167	110	141	201	276	207	207	222	200	327	91	162	181	S	
14-Oct-07	198	180	161	6	238	110	18	360	50	11	338	350	347	353	5	15	342	342	340	344	324	314	330	281	350	N	
15-Oct-07	219	226	333	11	166	1	246	284	156	290	250	280	193	244	48	62	88	281	236	350	323	301	256	252	273	W	
16-Oct-07	281	212	31	285	200	138	308	359	234	315	339	31	63	193	210	308	357	13	217	212	236	227	271	277	265	W	
17-Oct-07	348	345	240	207	190	227	149	45	191	206	246	275	289	284	294	288	306	276	258	240	194	131	114	68	269	W	
18-Oct-07	211	195	126	241	136	108	8	333	261	330	22	353	56	108	64	69	53	37	32	42	51	95	115	355	61	ENE	
19-Oct-07	9	177	9	255	252	234	265	262	251	267	262	250	266	250	287	276	269	252	293	326	309	297	268	272	270	W	
20-Oct-07	270	265	273	283	267	264	264	288	274	262	263	270	270	265	253	271	265	233	211	207	252	254	257	255	260	W	
21-Oct-07	240	250	249	210	110	59	166	60	77	110	164	163	165	165	173	172	175	192	170	226	234	232	239	243	208	SSW	
22-Oct-07	227	219	234	225	197	201	209	194	210	244	272	259	286	243	222	212	216	221	228	223	219	218	216	209	226	SW	
23-Oct-07	239	260	281	207	194	185	99	103	102	105	110	133	100	89	72	101	67	60	95	111	54	58	86	162	115	ESE	
24-Oct-07	173	172	172	171	292	308	282	276	267	261	263	264	259	264	265	267	261	254	249	263	259	254	257	256	259	259	WSW
25-Oct-07	257	259	260	258	261	262	263	262	264	269	273	278	283	282	284	277	270	258	251	248	239	247	251	258	264	W	
26-Oct-07	262	319	353	5	320	319	283	249	201	194	184	192	205	247	255	237	245	259	244	256	170	196	176	138	254	WSW	
27-Oct-07	115	166	181	167	206	204	209	200	280	267	298	292	283	261	257	257	259	257	271	253	242	255	258	268	255	WSW	
28-Oct-07	265	269	269	268	247	256	260	309	233	215	213	283	262	227	199	209	210	204	154	110	17	191	194	198	240	WSW	
29-Oct-07	194	177	190	183	324	260	220	213	186	214	235	267	283	273	275	262	259	256	265	264	261	252	250	254	256	WSW	
30-Oct-07	254	258	252	254	259	257	259	259	254	256	262	271	275	275	273	264	247	244	243	251	255	257	244	251	259	WSW	
31-Oct-07	254	249	249	241	235	229	206	209	227	222	224	219	221	248	264	257	258	250	246	243	242	243	244	252		N	
Hourly Avg	240	239	243	233	230	241	249	256	245	253	255	260	264	263	265	267	262	252	247	245	243	242	243	240			

PASZA - Evergreen Park Standard Deviation of Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2007 to November 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
	92.8	83.5	41.3	20.2	10.4	5.5	4.5

Status Flag Characters

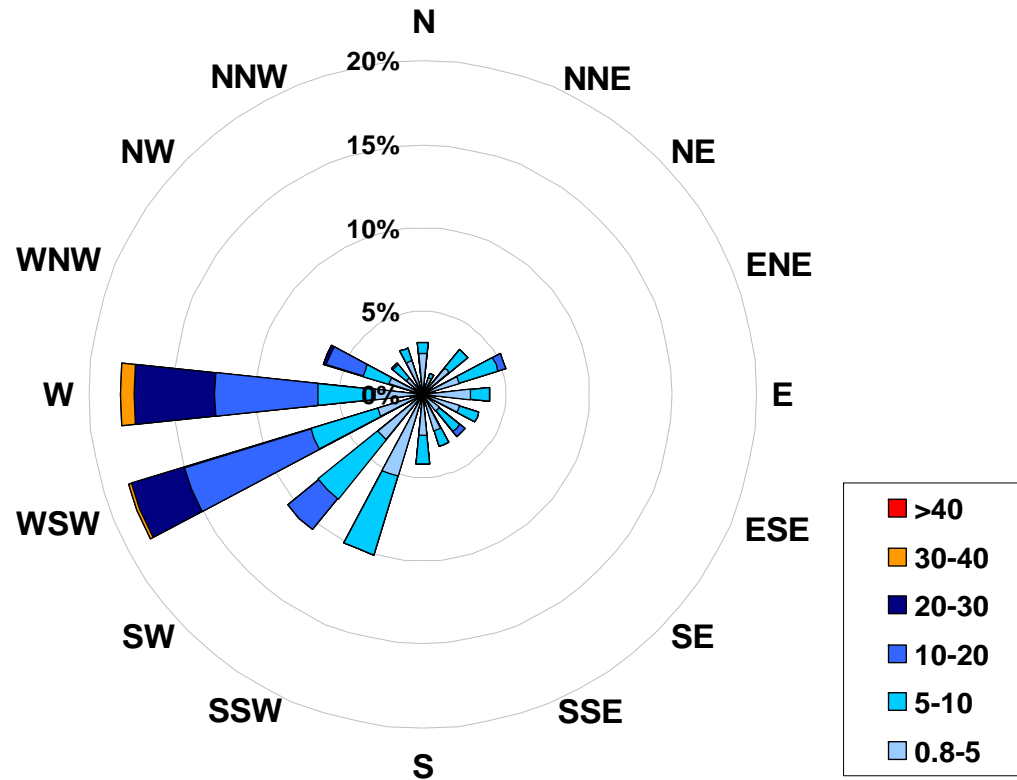
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day Mountain Standard Time

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	0:00		
1-Oct-07	22	19	35	19	12	19	8	18	23	11	8	11	9	10	14	15	10	8	11	7	8	12	8	77	77.3		
2-Oct-07	56	40	13	17	13	44	25	73	46	12	24	17	12	10	9	8	8	7	5	7	6	5	36	41	73.4		
3-Oct-07	20	42	41	74	65	43	77	56	15	14	14	17	23	87	34	45	16	70	50	25	13	11	14	16	86.6		
4-Oct-07	11	16	12	15	11	15	12	12	11	12	13	15	21	22	30	17	26	17	20	22	17	26	17	25	30.3		
5-Oct-07	41	33	61	85	34	26	12	15	16	28	29	37	55	43	44	27	28	22	39	51	40	56	82	46	84.9		
6-Oct-07	11	8	10	9	8	8	10	15	7	10	8	11	12	9	10	11	9	10	55	77	19	98	61	11	98.2		
7-Oct-07	61	46	21	16	12	17	15	14	53	43	28	27	16	14	65	11	9	19	16	11	18	24	24	8	64.8		
8-Oct-07	9	14	55	41	55	80	91	41	36	8	10	18	23	35	24	26	17	40	21	60	61	51	61	74	90.8		
9-Oct-07	67	98	88	68	24	8	6	9	20	15	19	21	24	23	18	17	15	13	13	11	12	22	38	25	98.0		
10-Oct-07	16	32	77	64	84	90	42	49	74	84	60	102	63	74	73	33	38	63	36	89	39	43	20	9	101.6		
11-Oct-07	28	68	38	5	10	9	6	7	13	11	9	12	10	10	10	11	9	10	15	19	20	12	9	6	67.7		
12-Oct-07	11	36	86	23	26	10	10	12	13	66	18	15	18	22	28	25	35	21	73	26	29	52	58	26	85.6		
13-Oct-07	74	37	89	42	85	75	76	59	15	30	76	53	32	48	31	36	24	67	64	75	44	83	89	79	88.7		
14-Oct-07	60	21	23	84	77	96	98	36	76	49	78	23	22	23	27	24	23	11	15	25	55	28	69	85	98.3		
15-Oct-07	39	77	56	61	67	34	74	30	93	88	23	47	49	59	32	22	53	74	78	81	76	47	26	64	92.7		
16-Oct-07	44	12	89	73	81	78	75	85	40	31	42	43	23	61	31	27	34	24	67	62	79	77	13	27	89.1		
17-Oct-07	61	90	25	62	31	33	92	65	53	38	26	29	34	15	20	17	21	23	17	34	88	81	86	93	92.9		
18-Oct-07	93	36	87	61	87	90	58	61	73	75	70	92	33	69	23	12	12	13	18	12	24	65	52	76	92.8		
19-Oct-07	75	99	90	50	24	23	18	11	30	13	15	14	23	20	21	16	10	14	24	24	30	23	10	6	98.9		
20-Oct-07	10	10	26	18	9	9	16	31	29	24	13	14	12	15	15	19	14	10	16	12	10	3	4	4	31.3		
21-Oct-07	13	8	8	69	85	81	75	40	80	70	32	19	24	25	16	18	25	11	26	13	4	5	7	12	84.6		
22-Oct-07	24	12	14	31	14	64	25	12	13	17	10	18	30	17	8	7	6	5	7	8	5	5	11	22	64.3		
23-Oct-07	30	11	34	42	11	38	84	33	20	18	24	42	37	22	51	55	38	33	50	76	45	25	36	32	83.5		
24-Oct-07	7	7	8	10	39	28	11	8	9	6	8	7	7	8	8	8	8	6	7	9	6	6	6	6	39.4		
25-Oct-07	6	6	6	6	5	5	5	5	5	7	8	10	14	9	13	8	10	5	7	6	5	5	4	5	14.3		
26-Oct-07	5	35	14	22	19	22	23	35	16	13	23	23	26	21	10	15	7	7	16	8	42	32	35	47	47.3		
27-Oct-07	38	38	35	21	50	10	38	53	44	18	38	27	17	14	6	9	9	6	7	10	5	14	12	25	53.5		
28-Oct-07	11	9	24	52	49	28	43	68	52	14	62	27	21	17	9	13	18	22	12	54	89	24	24	10	88.6		
29-Oct-07	11	20	36	57	40	30	10	7	16	23	8	18	15	7	10	7	8	5	7	6	7	7	5	5	57.1		
30-Oct-07	5	6	4	4	5	4	5	5	5	6	8	11	8	9	8	7	8	7	7	5	8	6	12	10	12.4		
31-Oct-07	7	6	6	11	5	7	23	13	5	13	12	7	10	15	8	8	7	7	9	9	5	5	7	7	23.3		

Hourly Max	93	99	90	85	87	96	98	85	93	88	78	102	63	87	73	55	53	74	78	89	89	98	89	93
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1-hr Average Wind Rose (in km/hr) Located at the Evergreen Park Site for October 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	288
5	to	10	239
10	to	20	148
20	to	30	62
30	to	40	7
	>	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: PASAA

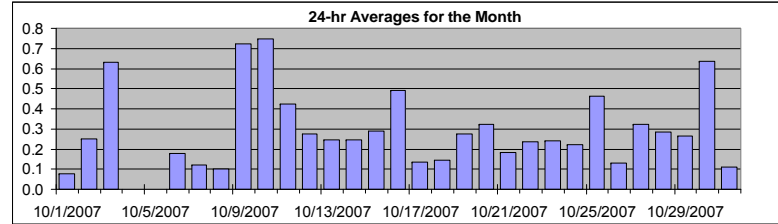
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2007 to November 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:	3.0 ppb	30-Oct	9:00	10:00
Maximum 24-hr Average:	0.7 ppb	10-Oct		



AIC Time:	40 hrs	Operational Time:	673 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	96.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.8	1.0	0.4	0.2	0.1	0.0	0.0	0.3 ppb	0.2 ppb

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.1	0.7
2-Oct-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	1	0.3	2.2
3-Oct-07	0	0	A	2	1	1	2	1	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0.6	2.4
4-Oct-07	0	A	0	0	0	0	0	0	0	0	0	C	C	C	A	M	M	M	M	M	M	M	M	N	0.1	0.0
5-Oct-07	M	M	M	M	M	M	M	M	M	M	M	C	C	C	C	A	0	0	0	0	0	0	0	N	0.0	0.0
6-Oct-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0.2	0.7
7-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.1	0.7
8-Oct-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
9-Oct-07	0	0	A	0	0	0	0	0	0	1	2	2	1	1	1	1	1	1	1	1	0	0	1	1	0.7	2.2
10-Oct-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0.7	1.2
11-Oct-07	A	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	1	0	1	A	0.4	1.5
12-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	A	0	0.3	1.3
13-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.5
14-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	A	0	0	0	0.2	0.8
15-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	A	1	0	0	0	0.3	0.6
16-Oct-07	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	A	1	0	1	1	1	0.5	1.0
17-Oct-07	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.1	0.7
18-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.1	0.4
19-Oct-07	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	A	0	0	1	0	0	0	0	0	0.3	0.7
20-Oct-07	0	0	0	0	0	0	0	0	0	1	0	1	1	1	A	1	0	0	0	0	0	0	0	0	0.3	1.1
21-Oct-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	0.2	0.3
22-Oct-07	3	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0.2	2.8
23-Oct-07	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9
24-Oct-07	0	0	0	0	0	0	0	0	P	P	P	A	0	0	0	0	0	1	0	1	0	0	0	0	0.2	0.9
25-Oct-07	0	0	0	1	2	2	2	1	0	A	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0.5	1.8
26-Oct-07	0	0	0	0	0	0	0	0	0	A	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
27-Oct-07	0	0	0	0	0	0	0	0	A	A	0	0	1	1	1	1	0	0	0	0	0	0	0	1	0.3	0.7
28-Oct-07	1	0	0	1	1	1	A	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.3
29-Oct-07	0	0	0	0	0	A	A	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1	0	0	0.3	2.2
30-Oct-07	0	1	0	1	A	A	2	0	1	3	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0.6	3.0
31-Oct-07	0	0	0	A	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
Hourly Avg	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.2		
Hourly Max	2.8	0.8	1.0	2.4	1.8	1.8	1.6	1.2	1.1	3.0	1.9	2.2	1.2	1.0	1.0	1.0	1.1	1.3	0.9	0.9	2.2	2.2	1.5	1.1		

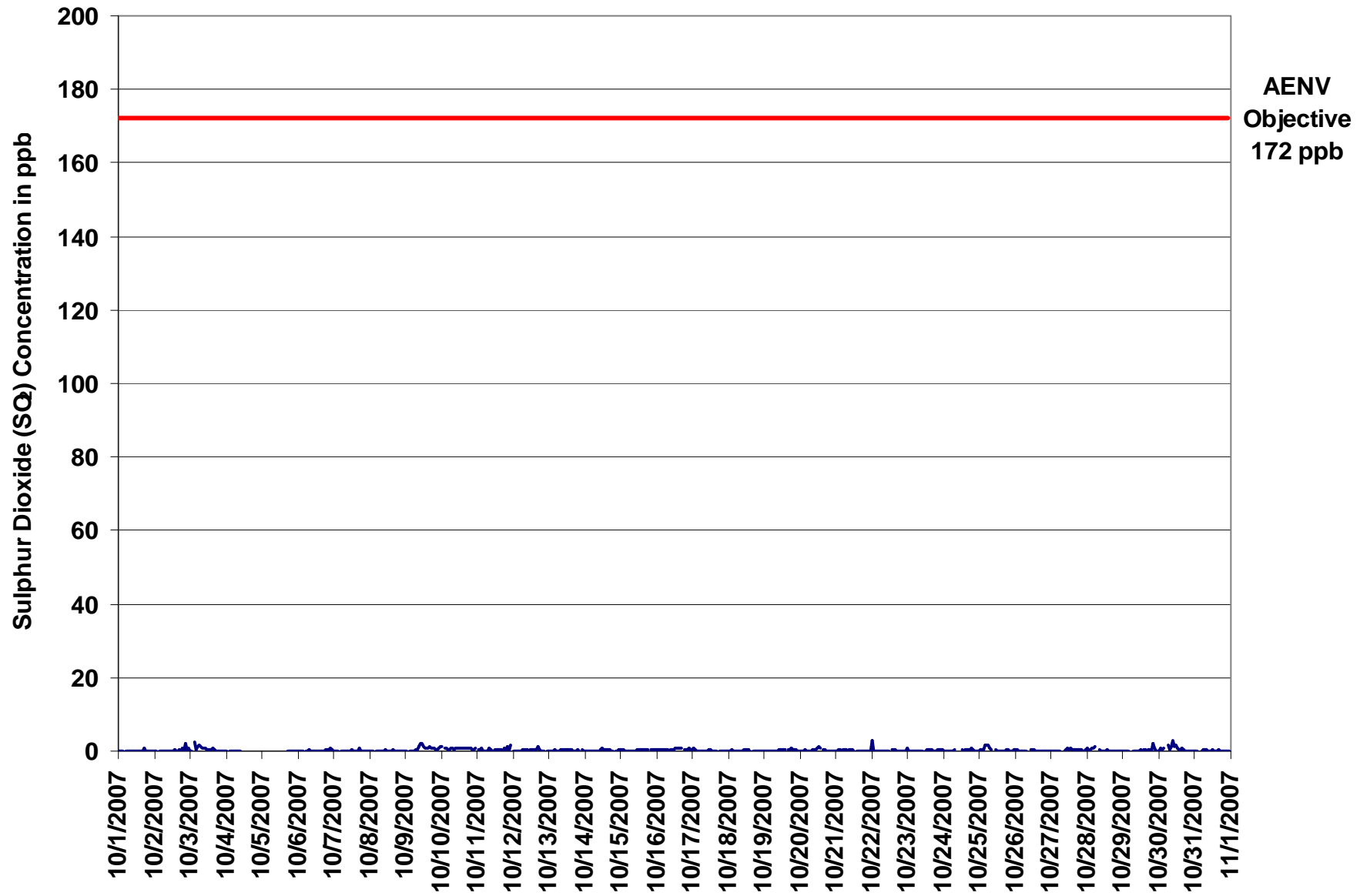


Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASAA

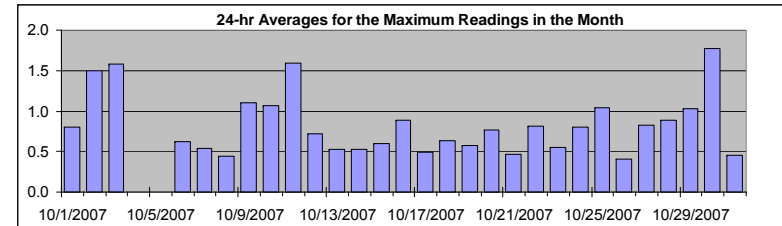
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	11.1	ppb	30-Oct	9:00 10:00
Maximum 24-hr Value:	1.8	ppb	30-Oct	



AIC Time:	40 hrs	Operational Time:	673 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	96.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	4.9	2.3	0.9	0.5	0.4	0.3	0.2	0.8 ppb	0.5 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Oct-07	1	0	1	0	A	0	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	0.8	3.1	
2-Oct-07	1	1	1	A	1	1	1	1	0	1	1	1	1	1	1	2	1	1	2	1	3	1	11	2	4	1.5	10.9
3-Oct-07	1	1	A	5	2	3	5	3	2	2	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1.6	5.1	
4-Oct-07	1	A	1	1	1	1	0	0	0	1	0	C	C	C	A	M	M	M	M	M	M	M	M	M	N	1.1	
5-Oct-07	M	M	M	M	M	M	M	M	M	M	M	C	C	C	C	A	0	2	0	0	0	0	0	0	N	1.5	
6-Oct-07	0	0	0	0	0	A	0	0	0	1	1	0	0	1	0	0	1	1	0	2	2	1	1	1	0.6	2.0	
7-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0.5	4.5	
8-Oct-07	0	0	0	A	0	0	0	0	1	0	0	1	1	0	0	1	1	1	0	0	0	0	0	0	0.4	1.0	
9-Oct-07	0	0	A	0	0	0	0	1	1	2	3	3	2	1	1	1	1	1	1	1	1	1	1	1	1.1	2.9	
10-Oct-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	1.1	1.6	
11-Oct-07	A	1	1	6	0	0	0	0	4	1	0	0	1	1	1	1	2	1	3	2	5	0	6	A	1.6	5.7	
12-Oct-07	0	0	1	0	0	1	1	1	1	0	1	0	1	1	1	1	2	2	2	0	0	0	A	1	0.7	1.9	
13-Oct-07	0	0	0	1	1	0	0	0	1	1	1	1	1	1	1	1	0	0	0	1	0	A	1	0	0.5	0.8	
14-Oct-07	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	A	1	0	1	0.5	1.1	
15-Oct-07	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	A	1	1	1	1	0.6	1.0	
16-Oct-07	1	1	0	1	1	1	1	1	0	1	1	1	1	2	1	2	1	1	A	1	1	1	1	2	1	0.9	1.9
17-Oct-07	1	2	1	0	0	0	0	0	0	0	0	1	1	0	0	1	0	A	0	0	0	0	0	0	0.5	2.4	
18-Oct-07	0	0	1	0	0	0	0	0	1	0	1	1	1	1	0	0	A	0	0	3	2	0	0	0	0.6	2.8	
19-Oct-07	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	A	1	1	1	1	1	1	0	0	0.6	1.0	
20-Oct-07	1	0	0	0	0	0	0	0	2	2	1	1	2	2	A	1	0	1	0	0	0	1	1	0	0.8	2.0	
21-Oct-07	0	0	1	1	0	1	0	0	0	1	1	1	0	A	1	0	0	0	0	0	0	0	0	0	0.5	0.7	
22-Oct-07	8	0	0	0	0	0	0	0	0	0	0	1	A	1	1	2	0	0	0	0	0	0	0	0	0.8	7.5	
23-Oct-07	2	0	0	0	0	0	0	0	0	0	0	A	0	1	1	1	0	0	0	0	0	1	1	1	0.6	1.9	
24-Oct-07	0	0	0	0	0	1	0	1	P	P	P	A	1	0	1	1	1	1	2	3	1	0	0	0	0.8	2.7	
25-Oct-07	0	1	1	2	3	3	2	1	1	A	A	1	0	0	0	0	0	0	1	3	0	0	0	1	1.0	2.9	
26-Oct-07	1	1	1	0	0	0	0	0	A	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.4	0.6	
27-Oct-07	0	0	0	0	0	1	0	A	A	0	1	2	1	1	1	2	1	2	1	1	1	0	0	2	0.8	2.3	
28-Oct-07	2	1	2	2	3	4	A	A	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.9	4.0	
29-Oct-07	0	0	0	0	0	A	A	0	0	0	0	0	1	0	1	1	1	2	1	1	6	5	0	0	1.0	6.4	
30-Oct-07	1	3	1	2	A	A	2	1	3	11	2	4	1	1	1	2	1	1	0	0	0	0	0	0	1.8	11.1	
31-Oct-07	0	0	0	A	A	0	1	1	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0.5	1.2	
Hourly Avg	0.8	0.6	0.6	1.0	0.6	0.8	0.7	0.7	0.9	1.0	0.7	0.9	0.8	0.8	0.8	0.9	0.8	1.0	0.8	1.0	1.0	1.0	0.7	0.7			
Hourly Max	7.5	2.8	1.5	5.7	2.7	4.0	4.7	3.0	3.7	11.1	2.9	3.5	1.7	1.7	2.1	2.2	2.2	4.5	2.8	2.9	6.4	10.9	5.6	3.6			

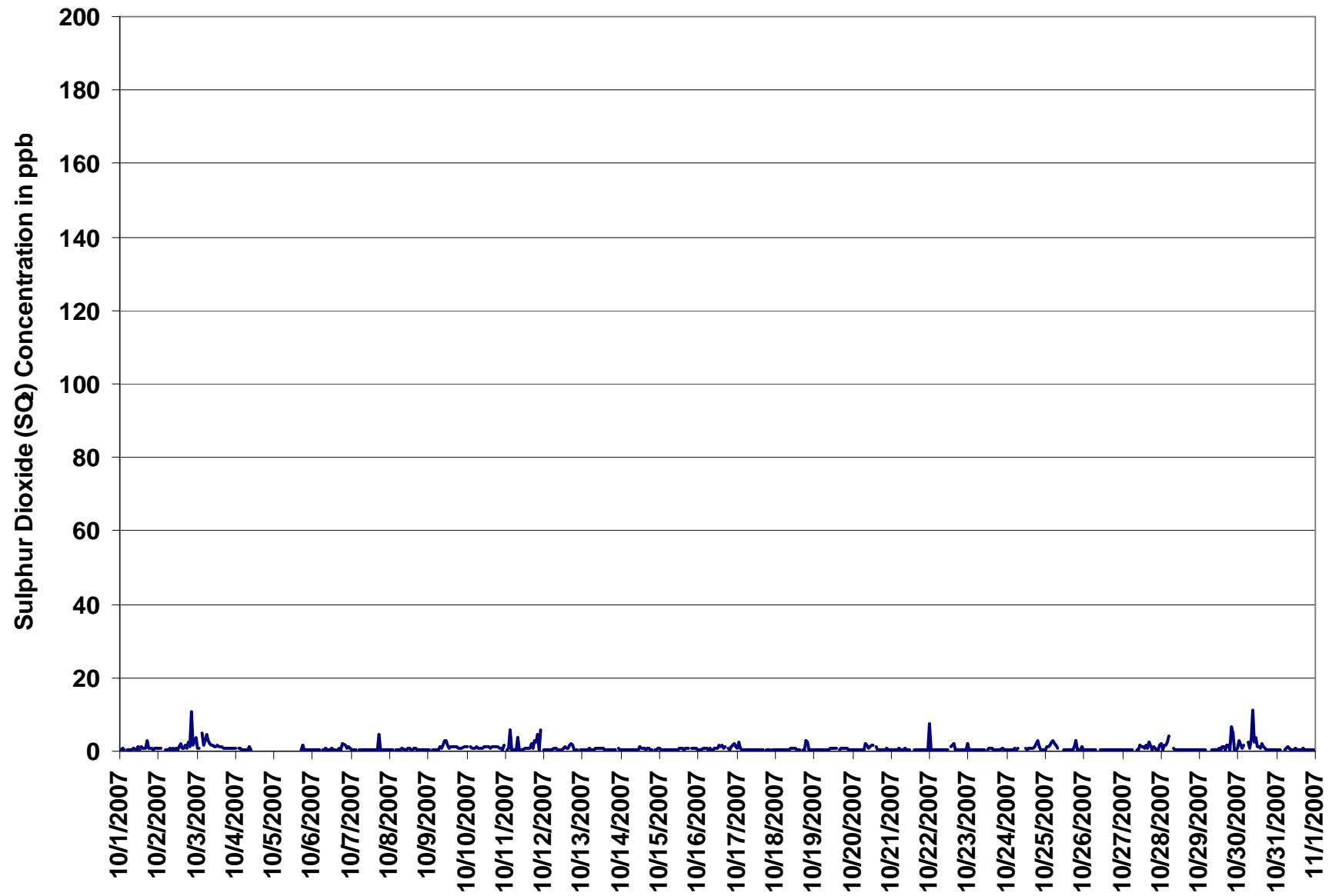
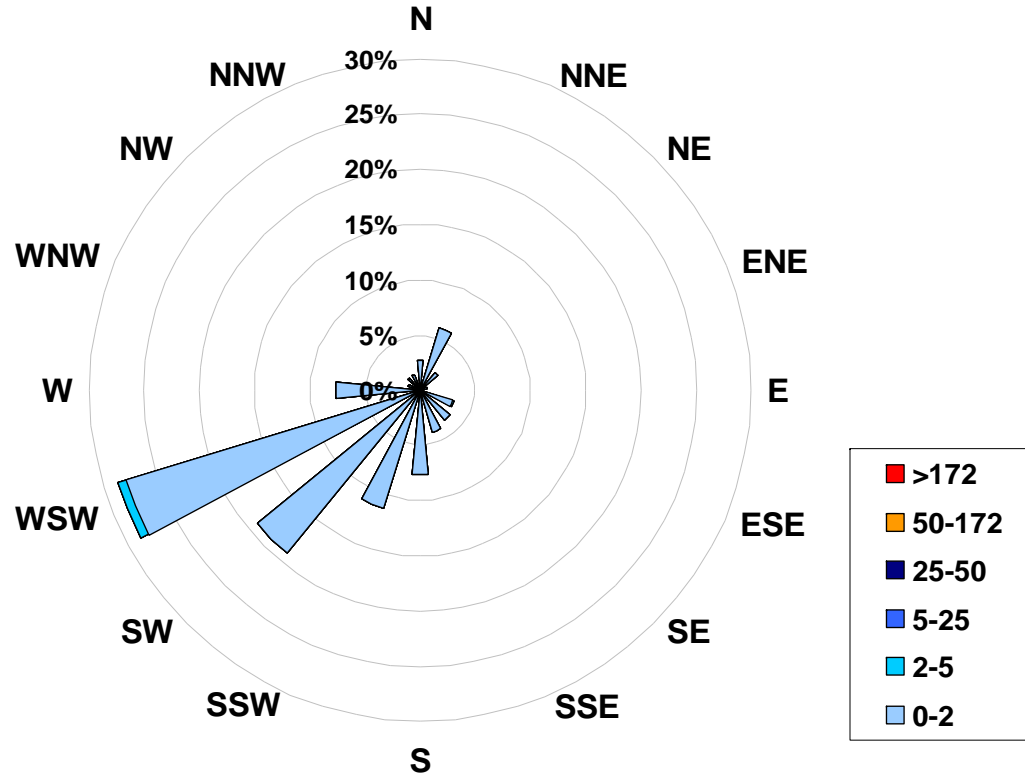


Figure 28. PASZA - Smoky Heights Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2	667	
2	to 5	6	
5	to 25	0	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values			673

PASZA - Smoky Heights Total Reduced Sulphur Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

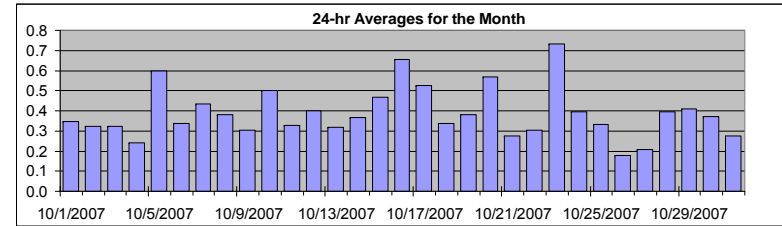
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: October 1, 2007 to November 1, 2007

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

Maximum 1-hr Average:	2.1	ppb	23-Oct	17:00 18:00
Maximum 24-hr Value:	0.7	ppb	23-Oct	



AIC Time:	40 hrs	Operational Time:	698 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.1	0.7	0.4	0.4	0.3	0.2	0.1	0.4 ppb	0.4 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Oct-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	0.3	0.6
2-Oct-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
3-Oct-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	0.3	0.5
4-Oct-07	0	A	0	0	0	0	0	0	0	C	C	A	1	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
5-Oct-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0.6	1.1
6-Oct-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.3	0.6
7-Oct-07	1	1	0	0	A	0	0	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0.4	0.7
8-Oct-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0.4	0.8
9-Oct-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	0.3	0.5
10-Oct-07	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	1	0.5	0.9
11-Oct-07	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.5
12-Oct-07	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	A	0	0.4	0.6
13-Oct-07	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	0.6
14-Oct-07	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.4	0.6
15-Oct-07	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	1	0	0	0	0.5	0.8
16-Oct-07	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	A	0	1	1	1	1	0.7	1.0
17-Oct-07	1	1	0	1	1	1	1	0	0	0	1	1	1	0	0	0	0	A	0	0	1	1	1	1	0.5	0.7
18-Oct-07	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.3	0.6
19-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0	1	0	0	0	0	1	0.4	0.5
20-Oct-07	1	1	1	1	1	1	1	1	1	0	0	0	0	0	A	0	0	1	1	1	1	1	0	1	0.6	0.8
21-Oct-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	0.4
22-Oct-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	0.3	0.4
23-Oct-07	1	0	1	1	0	0	0	0	0	0	0	A	0	0	0	0	0	2	2	2	2	2	1	1	0.7	2.1
24-Oct-07	1	0	0	0	1	1	0	0	P	P	P	A	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.3
25-Oct-07	0	0	0	0	0	0	0	0	0	A	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0.3	0.5
26-Oct-07	0	0	0	0	0	0	0	0	A	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
27-Oct-07	0	0	0	0	0	0	0	A	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
28-Oct-07	0	0	0	0	0	0	A	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.4	0.5
29-Oct-07	0	0	0	0	0	A	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
30-Oct-07	1	0	0	0	A	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
31-Oct-07	0	0	0	A	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.3
Hourly Avg	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.4	0.4	0.4	
Hourly Max	0.7	0.6	0.7	0.8	1.3	1.0	0.8	0.7	0.8	1.0	0.9	0.8	0.7	0.6	0.5	0.6	0.7	2.1	1.6	2.1	1.7	1.8	1.0	1.1		

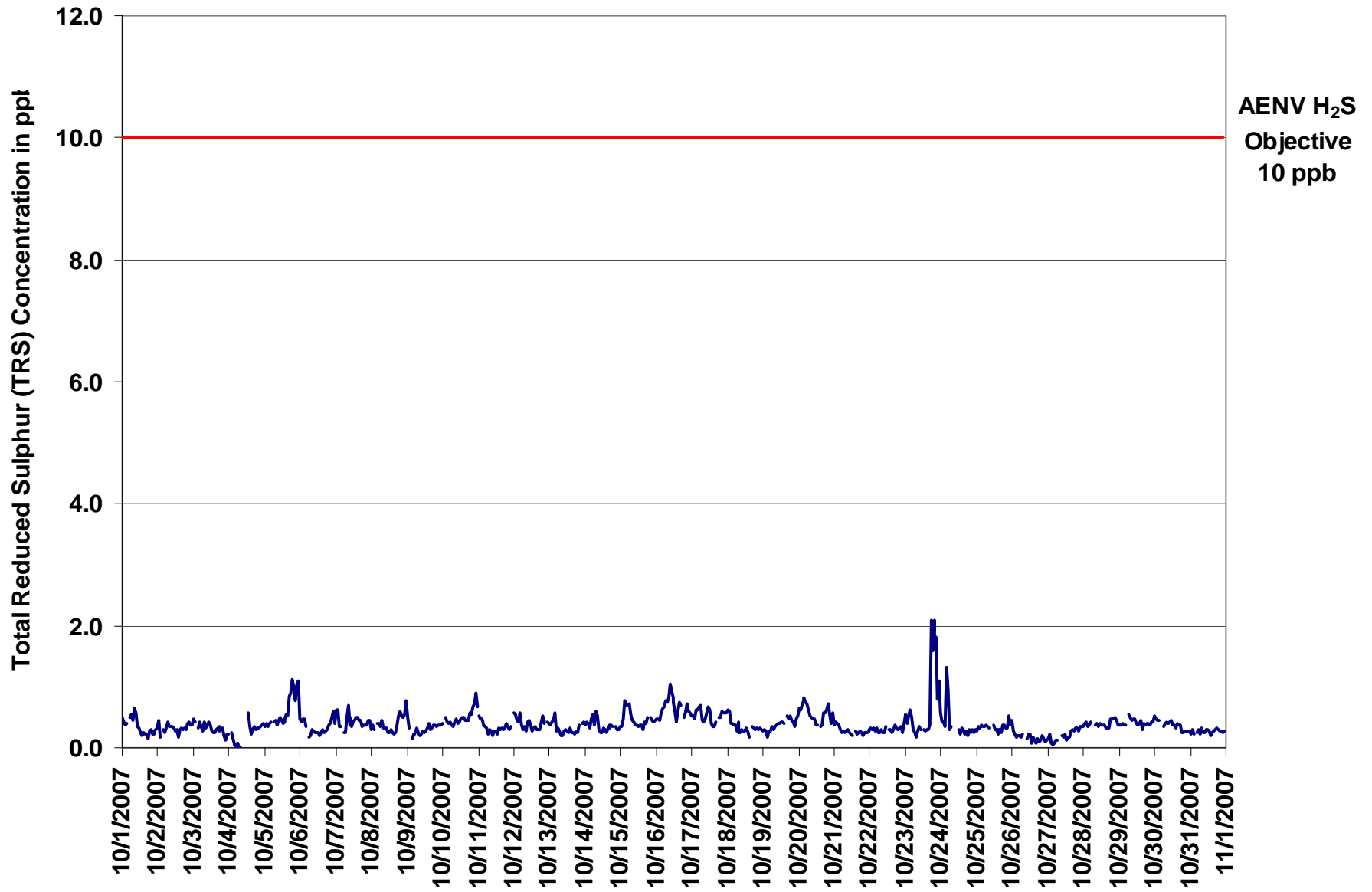


Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASAA

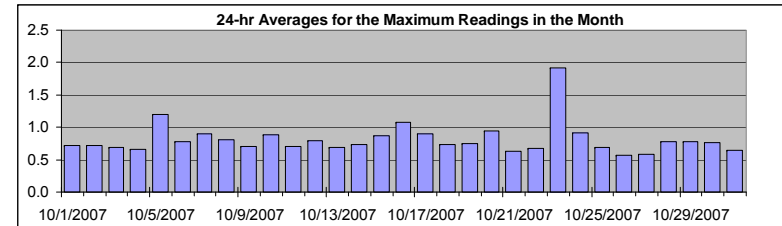
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	7.9	ppb	23-Oct	19:00 20:00
Maximum 24-hr Value:	1.9	ppb	23-Oct	



AIC Time:	40 hrs	Operational Time:	698 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.5	1.2	0.8	0.7	0.6	0.5	0.4	0.8 ppb	0.7 ppb

Status Flag Characters

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

Day Mountain Standard Time

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-Oct-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0.7	1.0	
2-Oct-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9	
3-Oct-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0	
4-Oct-07	1	A	1	0	0	0	0	0	0	C	C	C	A	2	1	1	1	1	1	1	1	1	1	0.7	1.5	
5-Oct-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	3	2	2	2	1	2	3	1.2	2.7	
6-Oct-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	2	1	0.8	1.7	
7-Oct-07	2	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.7	
8-Oct-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.2	
9-Oct-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0	
10-Oct-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.5	
11-Oct-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	1.0	
12-Oct-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.8	1.1	
13-Oct-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.7	0.9	
14-Oct-07	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	1.1	
15-Oct-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.9	1.3	
16-Oct-07	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1.1	1.8	
17-Oct-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.9	1.2	
18-Oct-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	
19-Oct-07	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.7	0.9	
20-Oct-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.9	1.2	
21-Oct-07	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0	1	1	1	1	0.6	0.8	
22-Oct-07	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0.7	0.9	
23-Oct-07	1	1	1	1	1	1	1	0	1	1	1	A	1	1	1	1	6	5	8	3	5	2	2	1.9	7.9	
24-Oct-07	1	1	1	1	4	2	1	1	P	P	P	A	1	1	1	0	1	1	1	1	1	1	1	0.9	3.6	
25-Oct-07	1	1	1	1	1	1	1	1	1	A	A	A	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9	
26-Oct-07	1	1	1	0	0	1	0	1	A	A	0	1	1	1	1	0	1	0	1	1	0	1	1	0.6	0.9	
27-Oct-07	0	1	0	1	1	0	0	A	A	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0.6	0.8	
28-Oct-07	1	1	1	1	1	1	A	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0	
29-Oct-07	1	1	1	1	1	A	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0	
30-Oct-07	1	1	1	1	1	A	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.2	
31-Oct-07	1	1	1	A	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8	
Hourly Avg	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	0.9	1.0	0.9	0.9	0.9	0.9	0.9		
Hourly Max	1.7	1.4	1.2	1.2	3.6	2.2	1.8	1.4	1.3	1.5	1.3	1.2	1.2	1.5	1.3	1.1	1.1	6.3	5.2	7.9	3.5	5.3	2.3	2.5		

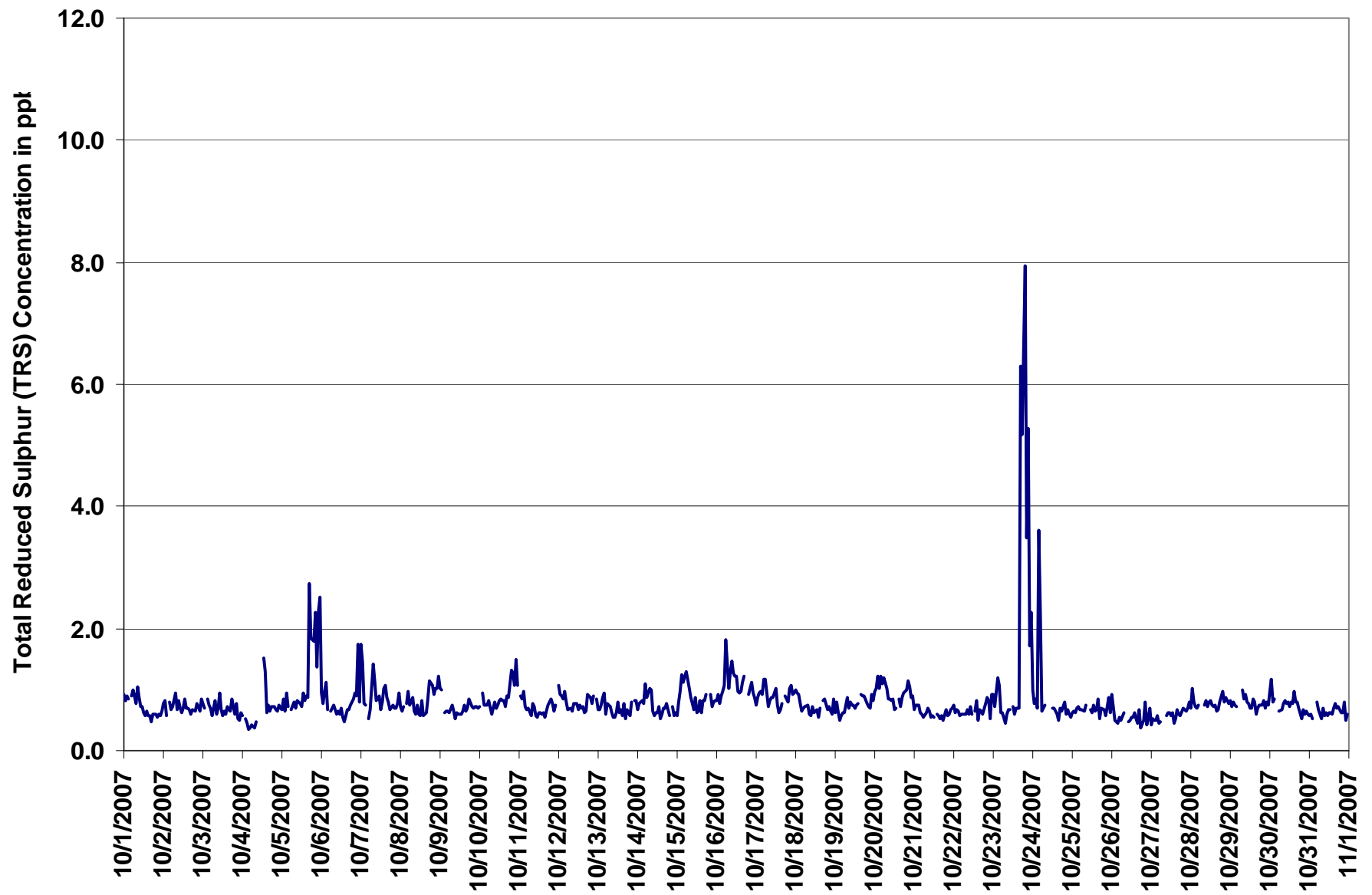
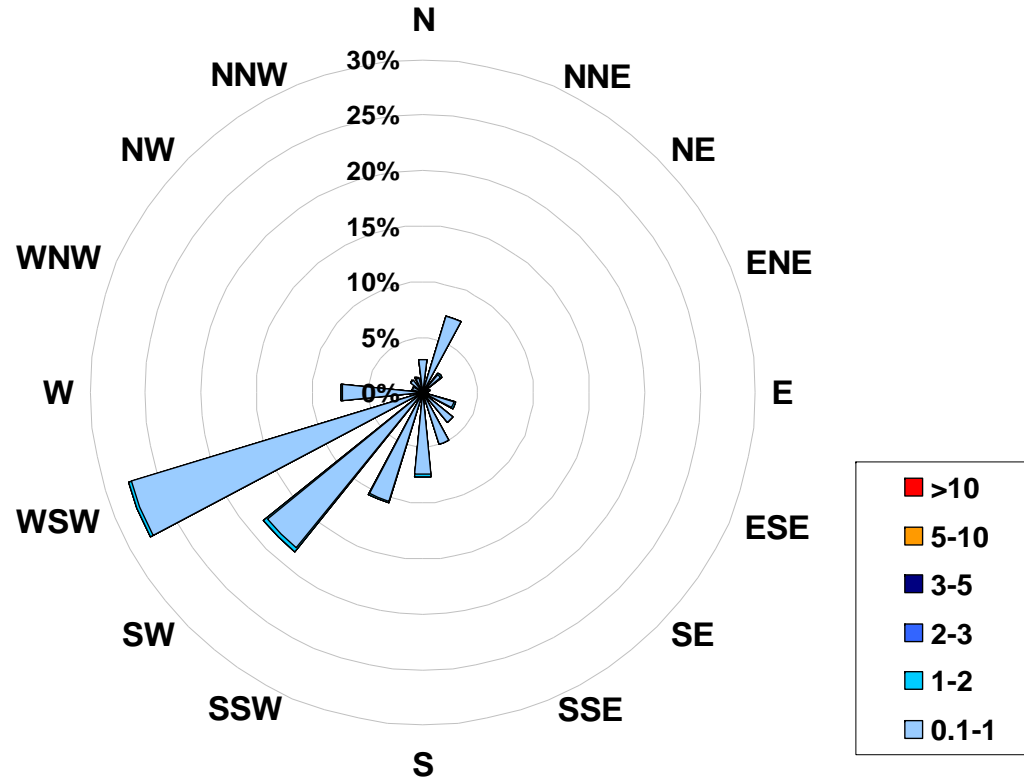


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	686
1	to	2	10
2	to	3	2
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			698

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

Station: Smoky Heights
 Station Owner: PASAA

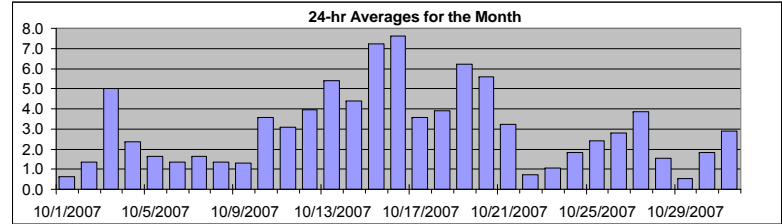
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2007 to November 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:	31.0 µg/m ³ 17-Oct 19:00 20:00
Maximum 24-hr Value:	7.6 µg/m ³ 16-Oct



AIC Time:	0 hrs	Operational Time:	738 hrs							
Calibration Time:	2 hrs	AMD Operational Uptime:	99.5%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	11.2	7.9	4.5	2.4	1.0	0.0	0.0	3.0	2 µg/m ³	2.4 µg/m ³

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-Oct-07	2	1	1	0	1	0	0	0	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	3.7
2-Oct-07	0	0	0	0	0	0	1	2	2	0	0	1	0	0	1	3	1	2	7	2	4	3	2	3		1.3	7.0	
3-Oct-07	2	3	3	4	4	3	6	7	7	6	P	5	5	4	5	5	10	13	16	5	1	2	0	1		5.0	16.0	
4-Oct-07	1	1	1	1	1	1	1	1	1	2	C	C	7	6	5	4	3	4	3	3	3	1	0	0		2.4	6.9	
5-Oct-07	1	2	0	1	2	2	3	2	3	3	4	3	2	1	1	0	0	1	2	1	2	1	2	1	2	1.7	3.6	
6-Oct-07	1	2	1	1	2	1	2	3	4	3	1	1	0	1	0	2	1	2	3	2	1	0	0	0		1.4	4.0	
7-Oct-07	0	1	0	1	1	0	1	1	1	1	1	2	2	3	2	8	2	2	2	0	2	1	2	2		1.6	8.1	
8-Oct-07	2	2	1	2	2	2	1	1	2	2	1	1	0	0	0	1	1	1	2	3	2	2	1	1		1.4	3.0	
9-Oct-07	1	1	0	0	0	0	0	1	1	2	0	1	1	1	1	2	2	1	2	2	3	3	2	2	3	1.3	3.1	
10-Oct-07	3	4	3	3	3	2	2	3	2	3	3	3	4	4	4	5	4	3	6	6	5	5	4	4		3.6	5.9	
11-Oct-07	6	5	4	4	3	2	3	3	3	1	1	1	2	2	2	2	3	2	3	6	4	3	3	3		3.1	6.0	
12-Oct-07	4	4	4	3	3	3	3	3	4	5	4	4	4	1	1	2	1	5	14	6	4	7	3	4		4.0	13.8	
13-Oct-07	3	5	4	5	5	3	5	5	4	4	4	3	4	5	7	6	7	10	7	9	8	5	5	5		5.4	10.5	
14-Oct-07	3	4	4	3	5	4	3	4	6	4	3	2	2	3	3	3	5	9	10	6	5	7	4	4		4.4	9.7	
15-Oct-07	4	5	5	3	6	5	6	8	6	8	7	6	7	7	8	9	10	11	10	11	7	7	7	7		7.2	11.3	
16-Oct-07	6	7	6	6	6	6	6	7	6	7	7	7	6	8	8	10	12	8	10	15	9	8	8	5		7.6	15.3	
17-Oct-07	1	1	1	1	1	0	0	2	0	5	3	6	2	0	0	2	0	1	13	31	5	2	5	2		3.6	31.0	
18-Oct-07	2	2	3	2	3	2	3	4	4	2	6	7	4	2	1	3	9	8	9	6	5	2	3	3		3.9	8.9	
19-Oct-07	4	4	3	3	4	4	4	7	8	6	5	7	7	6	9	9	9	10	11	7	6	4	4	8		6.2	11.1	
20-Oct-07	5	5	5	5	5	5	7	5	7	7	6	5	6	6	5	6	5	5	5	5	6	7	6	6		5.6	7.3	
21-Oct-07	5	6	5	5	5	5	5	4	4	5	3	3	1	1	2	2	2	5	3	0	1	2	2	2		3.2	5.9	
22-Oct-07	1	0	0	0	0	0	0	0	1	2	2	1	0	0	1	2	1	1	0	0	0	0	2	2		0.7	1.9	
23-Oct-07	3	1	1	0	0	1	0	0	0	0	0	1	1	0	0	0	1	0	2	4	9	0	0	0	0	1.1	9.4	
24-Oct-07	0	0	0	0	1	4	3	0	P	P	P	5	1	0	1	1	3	3	4	4	2	2	2	2		1.8	4.7	
25-Oct-07	3	2	3	1	2	2	2	2	2	2	2	1	0	0	1	2	3	2	2	3	3	5	6	6		2.4	6.1	
26-Oct-07	7	4	7	0	2	1	1	1	2	1	0	0	0	1	2	2	4	3	5	5	4	4	7	4		2.8	7.1	
27-Oct-07	3	2	1	1	1	2	2	4	10	3	6	7	7	7	7	5	5	4	3	3	2	3	3	2		3.9	9.9	
28-Oct-07	2	2	1	1	1	2	2	2	2	2	2	2	1	3	0	0	0	0	4	4	2	1	1	0		1.6	3.9	
29-Oct-07	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	2	3	2	1	0		0.5	2.8	
30-Oct-07	1	1	2	3	3	3	2	2	3	3	3	3	0	1	1	1	0	0	1	1	1	2	3	5		1.9	5.4	
31-Oct-07	5	6	5	4	3	2	1	1	3	3	2	3	3	2	2	2	2	3	3	3	3	3	3	3		2.9	5.6	
Hourly Avg	2.6	2.6	2.4	2.1	2.4	2.2	2.4	2.8	3.5	3.1	2.8	3.0	2.5	2.5	2.6	3.1	3.5	4.0	5.3	5.2	3.3	3.0	2.9	2.9				
Hourly Max	6.6	6.5	7.1	6.4	6.4	5.9	6.6	7.9	9.9	7.9	6.6	7.4	7.1	8.1	8.5	9.9	11.6	12.8	16.0	31.0	8.6	7.9	8.2	7.9				

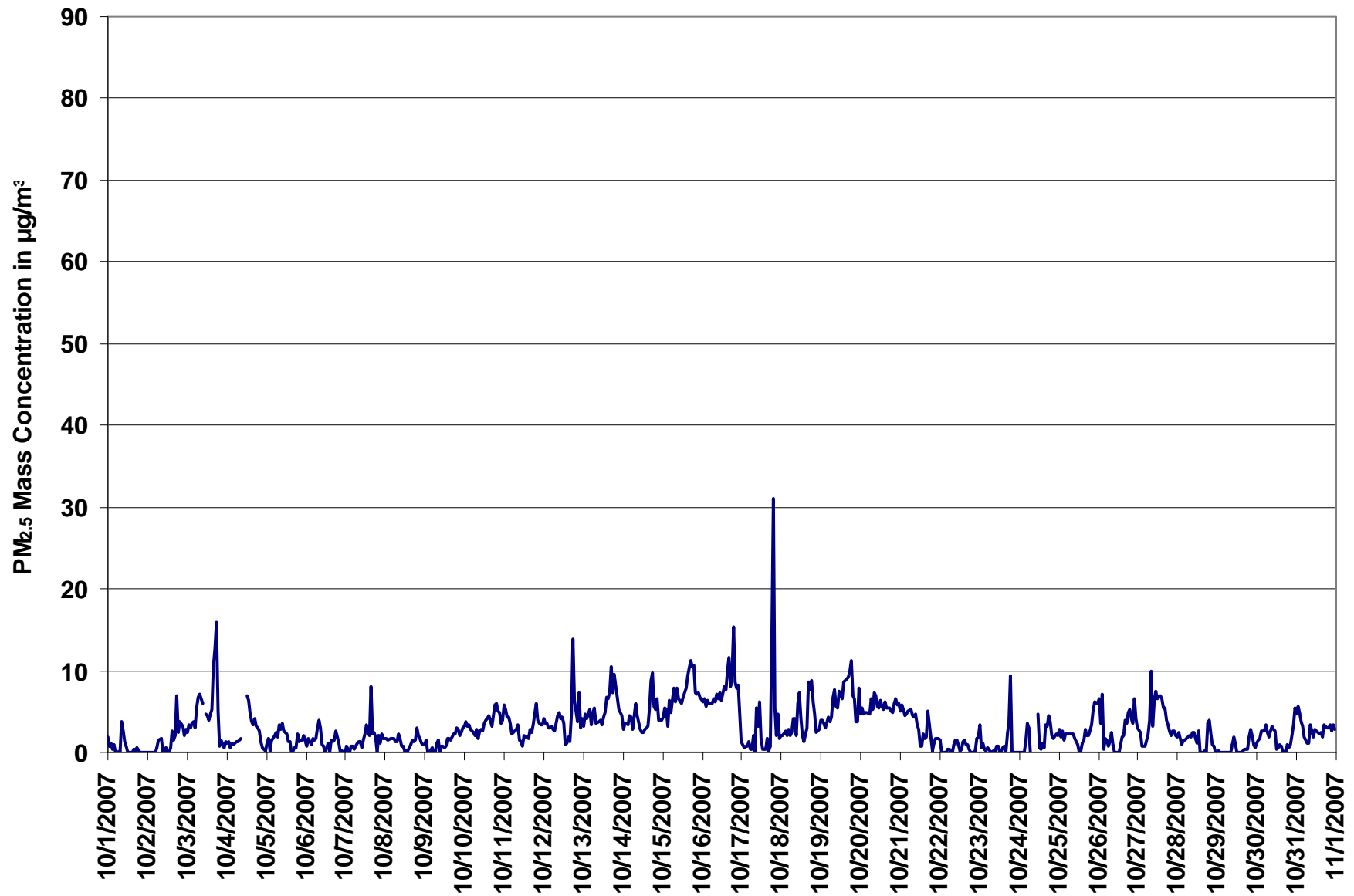


Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASAA

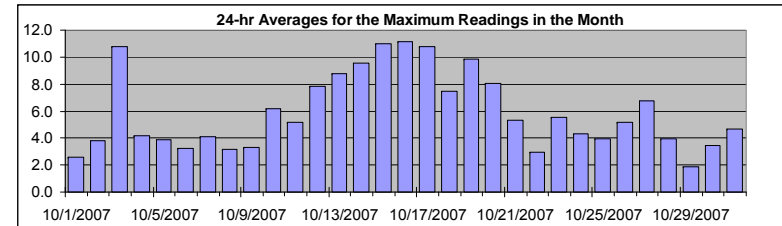
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	110.6	µg/m ³	17-Oct	19:00 20:00
Maximum 24-hr Value:	11.1	µg/m ³	16-Oct	



AIC Time:	0 hrs	Operational Time:	738 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	99.5%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	32.0	13.9	6.8	4.4	3.0	1.3	0.6	5.9 4 µg/m ³	5.3 µg/m ³

Status Flag Characters

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

Day Mountain Standard Time

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-Oct-07	3	2	3	2	3	2	1	7	9	5	4	3	1	1	2	2	4	2	2	1	2	1	1	2	2.6	8.6
2-Oct-07	1	1	2	1	1	2	2	5	4	1	1	3	1	2	3	7	5	5	21	5	6	4	3	4	3.8	21.4
3-Oct-07	4	6	5	5	5	5	10	9	10	8	P	8	10	6	6	11	40	34	45	10	4	3	3	2	10.8	45.5
4-Oct-07	2	2	2	2	2	3	3	2	5	4	C	C	10	8	7	5	5	6	5	5	4	4	3	3	4.1	9.8
5-Oct-07	3	3	2	6	3	4	6	4	7	5	5	6	5	4	4	2	3	3	2	3	3	3	3	4	3.9	6.8
6-Oct-07	2	3	3	4	4	3	4	5	6	7	2	3	3	4	1	3	3	3	4	4	3	2	2	1	3.2	6.7
7-Oct-07	2	3	1	2	3	2	3	3	5	3	3	3	4	5	4	14	7	6	5	2	6	5	4	4	4.1	14.3
8-Oct-07	4	3	3	4	4	4	3	3	4	4	2	2	1	2	2	4	3	3	3	5	4	2	3	3	3.1	4.6
9-Oct-07	2	3	1	1	3	2	2	4	4	3	2	3	2	3	4	4	5	4	4	5	5	3	4	5	3.3	5.4
10-Oct-07	6	5	5	7	6	5	4	5	4	6	5	6	6	6	7	7	7	5	8	10	10	6	5	6	6.2	10.4
11-Oct-07	8	7	5	6	5	4	4	4	5	3	5	4	4	5	3	4	5	4	9	12	6	5	5	5	5.2	11.7
12-Oct-07	5	5	5	4	4	6	4	4	7	6	6	5	5	3	3	5	3	22	40	10	6	19	4	6	7.8	40.2
13-Oct-07	5	8	6	6	7	10	12	12	6	5	6	7	6	7	14	10	10	20	11	12	10	8	8	6	8.8	19.9
14-Oct-07	5	6	5	5	13	7	4	11	21	21	4	4	5	4	5	19	19	15	16	8	9	12	6	5	9.6	21.4
15-Oct-07	6	7	8	5	14	7	10	15	16	16	10	8	8	10	9	12	17	18	13	15	11	10	9	10	11.0	18.2
16-Oct-07	7	8	7	8	8	8	8	8	7	11	9	10	9	10	9	14	15	14	13	37	15	10	12	11	11.1	37.0
17-Oct-07	3	2	3	2	3	2	4	5	1	15	8	12	4	3	2	4	2	2	34	111	13	4	16	3	10.7	110.6
18-Oct-07	4	4	5	4	4	5	5	7	6	4	14	11	8	4	3	5	26	13	11	12	12	4	4	4	7.5	25.6
19-Oct-07	5	7	5	5	6	6	6	10	12	8	7	9	10	9	23	22	14	14	14	10	8	5	7	14	9.8	22.5
20-Oct-07	6	7	6	6	6	7	13	6	10	9	7	7	10	11	12	12	8	7	6	7	7	8	7	7	8.0	12.7
21-Oct-07	6	7	7	6	8	7	6	7	7	6	6	5	3	3	5	5	4	8	8	2	3	4	3	4	5.3	8.1
22-Oct-07	4	4	4	2	2	2	2	1	3	4	3	3	2	3	4	3	3	3	3	3	2	4	4	3	2.9	4.1
23-Oct-07	6	2	4	4	4	3	3	2	2	3	3	4	3	3	2	3	2	10	31	33	1	1	2	2	5.5	32.5
24-Oct-07	3	1	0	1	4	11	7	0	P	P	P	7	4	7	3	3	7	5	7	5	4	3	3	3	4.3	11.2
25-Oct-07	4	3	4	3	3	3	3	4	3	5	3	3	2	2	3	3	4	3	4	4	5	7	8	7	3.9	7.7
26-Oct-07	8	8	12	5	3	3	3	3	5	4	2	1	2	2	3	5	6	7	8	7	7	6	9	7	5.2	12.2
27-Oct-07	5	4	2	2	3	3	4	10	20	6	14	14	8	11	9	7	9	7	5	4	3	5	4	5	6.8	19.6
28-Oct-07	3	5	3	5	3	3	4	4	3	4	4	4	3	6	2	2	2	2	14	6	5	3	3	1	3.9	13.5
29-Oct-07	1	1	1	1	1	0	0	2	3	3	4	3	0	1	2	2	2	2	2	3	4	3	2	1	1.9	4.2
30-Oct-07	3	3	3	4	4	4	4	3	4	5	5	4	2	3	3	2	2	1	2	2	3	3	5	8	3.5	8.0
31-Oct-07	6	7	7	5	5	4	2	3	4	4	4	6	5	5	4	4	3	5	5	5	6	4	6	4	4.7	7.4
Hourly Avg	4.3	4.4	4.2	4.0	4.6	4.3	4.8	5.5	6.7	6.2	5.3	5.6	4.8	4.9	5.4	6.6	7.8	8.1	11.4	11.5	6.0	5.2	5.1	4.8		
Hourly Max	7.9	7.9	12.2	8.3	13.7	11.2	12.7	14.5	20.6	21.4	14.2	13.8	10.3	10.8	22.5	21.8	39.9	33.7	45.5	110.6	14.8	19.0	15.7	14.2		

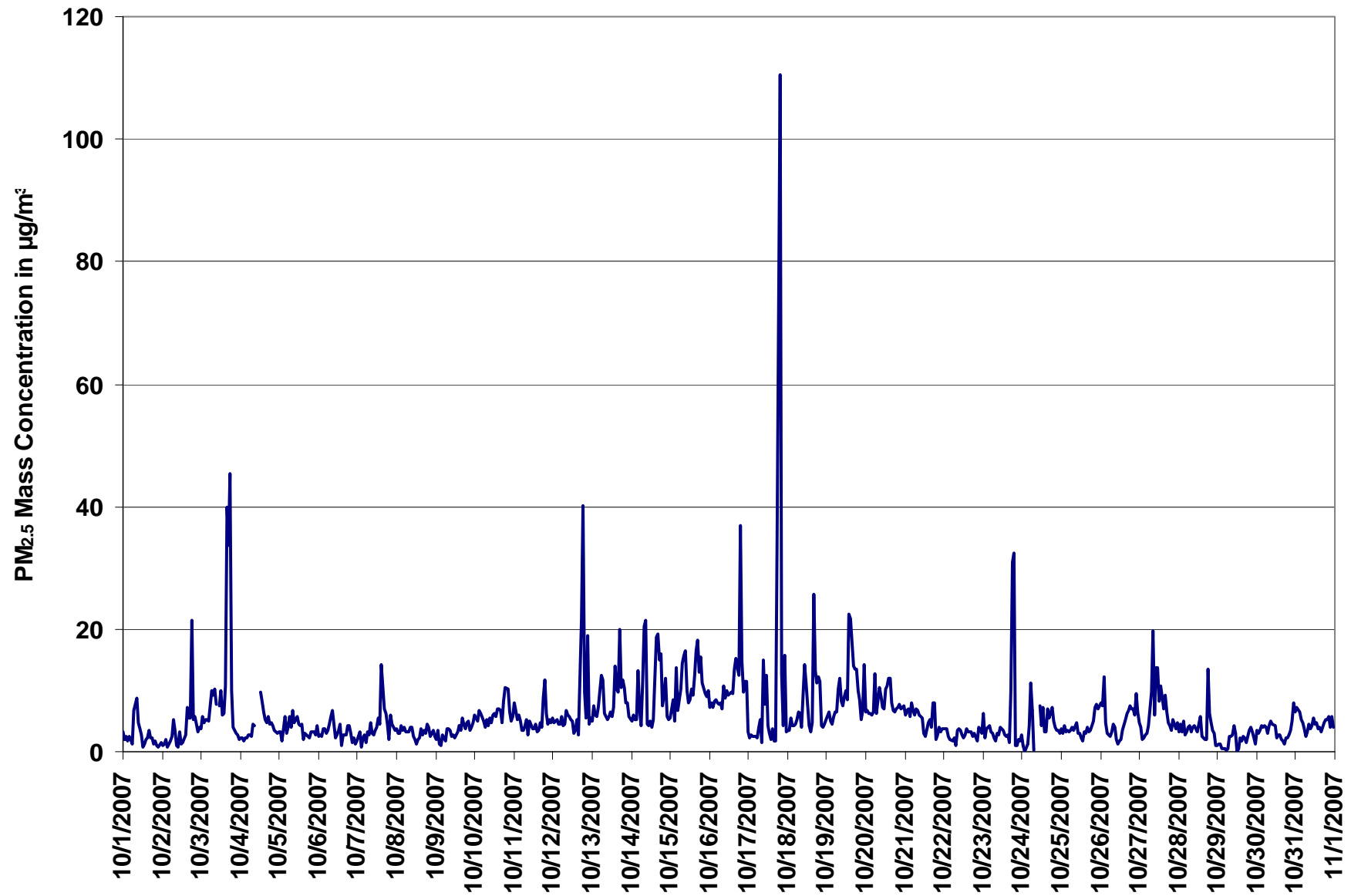
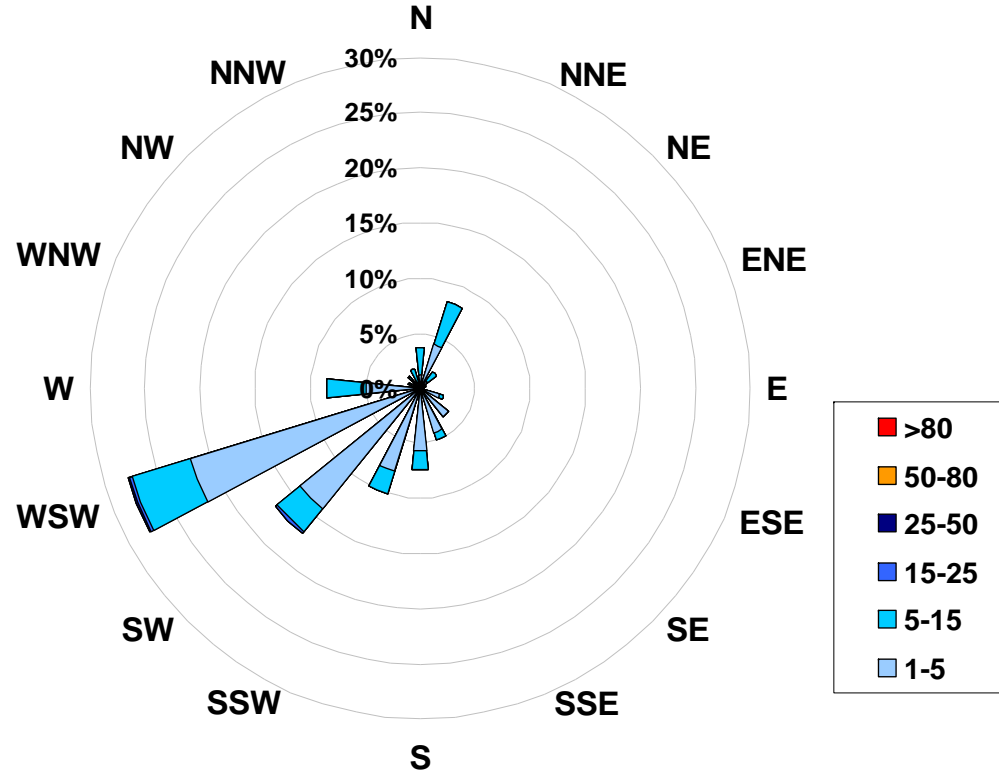


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	589
5	to	15	146
15	to	25	2
25	to	50	1
50	to	80	0
	>	80	0
Total Non-Zero Values			738

PASZA - Smoky Heights Temperature Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

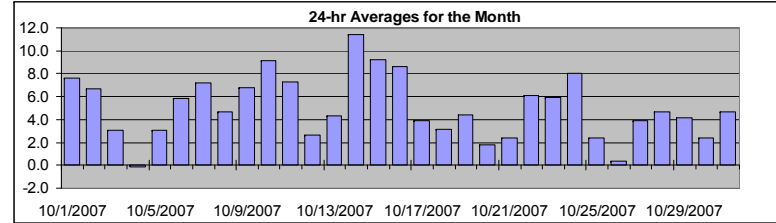
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	20.2 °C	14-Oct	15:00 16:00
Maximum 24-hr Value:	11.4 °C	14-Oct	



AIC Time:	0 hrs	Operational Time:	742 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	14.9	12.3	8.3	4.9	1.5	-1.8	-2.9	5.0 °C	4.9 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Oct-07	6	6	5	5	5	4	3	3	5	6	8	9	12	12	13	13	12	11	9	8	9	7	6	5	7.6	13.0	
2-Oct-07	2	2	5	6	6	5	4	4	6	8	8	10	11	12	12	12	12	11	9	4	5	4	2	1	6.7	12.5	
3-Oct-07	0	-1	-1	0	0	-1	-2	-1	2	4	7	7	9	9	9	8	6	6	4	4	2	0	0	0	3.1	9.0	
4-Oct-07	-1	-2	-2	-2	-2	-2	-2	-2	-2	-1	0	1	2	2	3	2	1	1	1	0	0	0	0	0	-0.1	3.1	
5-Oct-07	0	0	0	0	1	1	1	1	1	1	1	2	4	6	8	9	9	8	5	3	3	3	3	2	3.1	9.3	
6-Oct-07	2	2	1	1	3	2	3	4	4	7	9	10	10	11	11	11	11	9	8	7	5	4	3	3	5.9	11.3	
7-Oct-07	3	4	5	4	5	4	4	5	5	7	9	10	11	13	14	13	8	8	8	7	7	7	6	5	7.2	14.5	
8-Oct-07	4	2	2	3	3	1	0	-1	2	5	6	8	9	10	11	11	11	9	6	4	3	2	1	0	4.7	11.4	
9-Oct-07	-1	-1	-1	0	0	0	0	0	2	6	9	10	11	11	11	12	12	12	12	12	12	11	10	6.8	12.3		
10-Oct-07	10	10	10	10	10	10	9	9	9	9	9	10	10	10	11	11	11	10	9	8	7	6	5	5	9.1	11.3	
11-Oct-07	5	5	4	5	5	5	5	5	6	8	10	12	12	13	13	13	12	11	8	4	4	3	2	1	7.2	13.0	
12-Oct-07	1	0	0	-1	-2	-2	-2	-3	-1	1	4	7	9	10	10	10	10	8	5	0	0	1	-2	-2	2.6	10.4	
13-Oct-07	-3	-3	-3	-2	-2	-2	-2	-2	0	2	3	5	7	10	11	13	14	13	10	9	7	8	7	6	4.4	14.2	
14-Oct-07	6	5	5	5	5	5	5	5	8	11	13	15	17	19	20	20	19	15	14	14	13	12	12	10	11.4	20.2	
15-Oct-07	9	9	8	7	6	6	4	4	5	8	9	10	13	13	14	15	16	13	9	8	8	10	10	9	9.2	15.9	
16-Oct-07	9	8	7	8	7	6	6	6	6	7	8	10	11	13	14	13	12	10	10	8	7	8	6	6	8.6	14.0	
17-Oct-07	5	4	4	2	1	0	-1	-1	0	1	2	5	9	11	12	12	11	9	6	2	2	1	-1	-1	3.9	11.7	
18-Oct-07	-2	-2	-1	-3	-3	-3	-4	-4	-2	1	4	6	8	10	10	10	9	7	5	5	5	6	5	5	3.1	10.5	
19-Oct-07	4	4	3	3	2	2	2	1	2	3	6	7	9	10	10	10	9	5	3	3	4	3	1	-1	4.4	10.2	
20-Oct-07	-1	-2	-2	-1	-1	-1	-1	0	0	2	3	5	7	8	8	7	6	5	2	1	0	0	-1	-2	1.8	8.3	
21-Oct-07	-2	-2	-2	-2	-3	-4	-3	-2	-2	0	2	3	4	6	6	8	8	6	6	6	6	5	6	7	7	2.4	7.7
22-Oct-07	6	5	4	6	7	7	6	8	8	8	8	8	8	7	6	6	6	5	5	5	4	4	4	4	6.1	8.2	
23-Oct-07	4	4	4	4	5	4	3	3	3	4	5	7	8	8	8	9	9	8	6	6	7	7	7	8	5.9	8.8	
24-Oct-07	9	10	11	11	11	10	13	11	P	P	10	9	9	9	10	9	9	7	4	4	3	2	2	2	8.0	12.6	
25-Oct-07	2	1	1	1	2	1	0	0	1	3	4	6	7	7	7	6	5	4	1	0	0	0	-2	-2	2.4	6.8	
26-Oct-07	-1	1	-1	-1	-1	-2	-3	-5	-5	-1	0	1	2	4	5	6	6	3	2	1	0	-1	0	-1	0.4	6.4	
27-Oct-07	-1	-1	0	-1	-1	-2	-2	-2	-2	1	5	9	10	10	11	11	10	8	7	7	6	5	3	2	3.9	11.2	
28-Oct-07	1	2	2	3	3	2	2	4	3	3	4	6	6	7	9	9	8	7	6	5	5	4	4	4	4.7	9.1	
29-Oct-07	4	4	4	4	4	4	4	3	4	4	5	6	7	8	7	7	7	6	4	2	2	0	0	-1	4.2	7.8	
30-Oct-07	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	3	4	6	7	7	6	5	5	4	4	4	3	4	4	2.4	7.0	
31-Oct-07	4	4	4	3	1	1	1	2	4	5	5	7	9	10	11	10	8	6	5	4	2	1	1	1	4.6	10.6	
Hourly Avg	2.7	2.6	2.6	2.5	2.5	2.0	1.7	1.7	2.4	4.1	5.8	7.3	8.6	9.5	10.1	10.1	9.4	8.0	6.2	5.1	4.6	4.1	3.5	3.0			
Hourly Max	10.2	10.2	11.0	11.4	10.5	10.2	12.6	11.1	8.9	11.2	13.3	15.1	17.4	18.8	19.6	20.2	18.5	15.3	13.6	13.6	13.2	12.0	11.6	10.2			

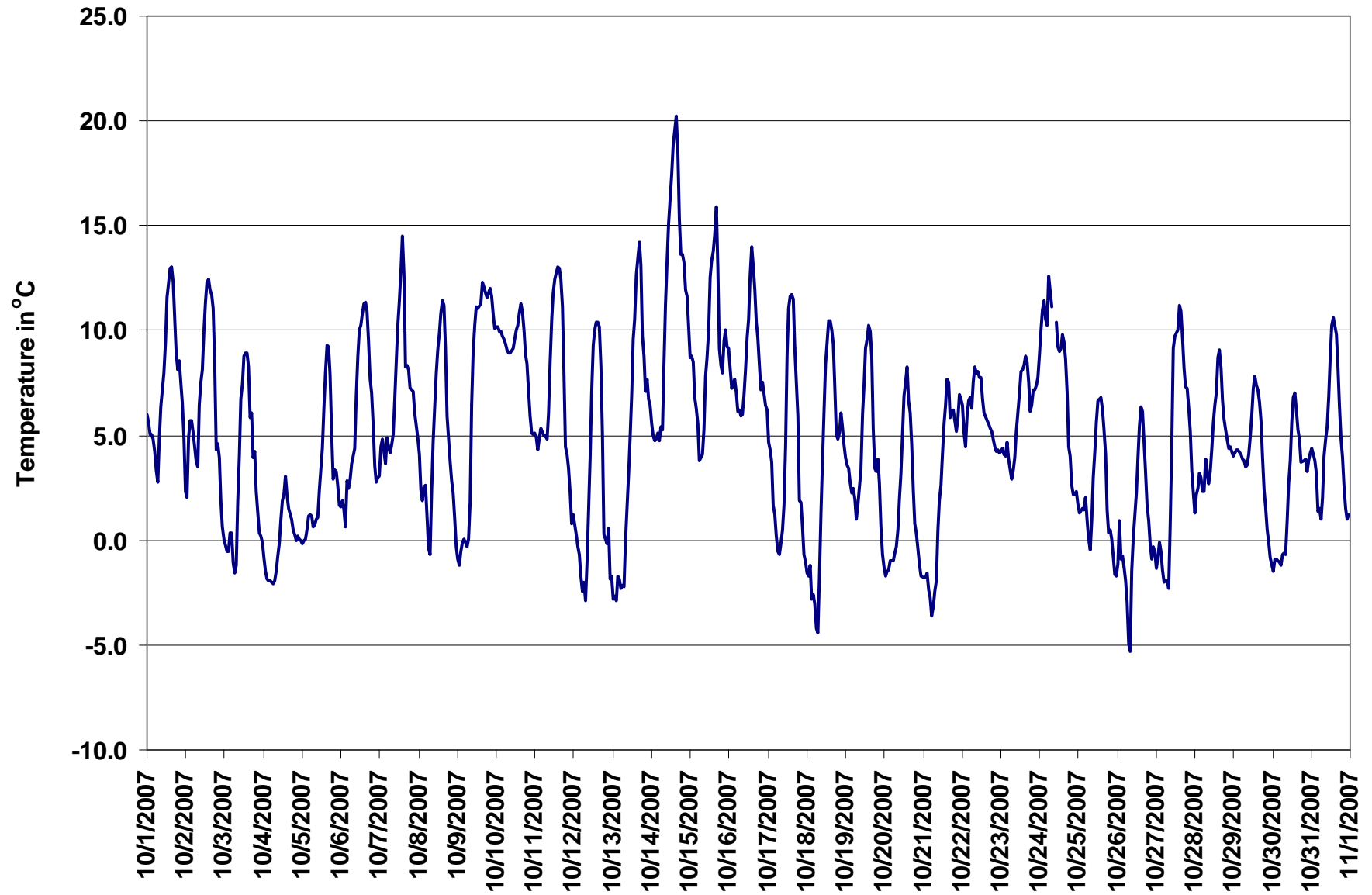


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend

PASZA - Smoky Heights Scalar Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

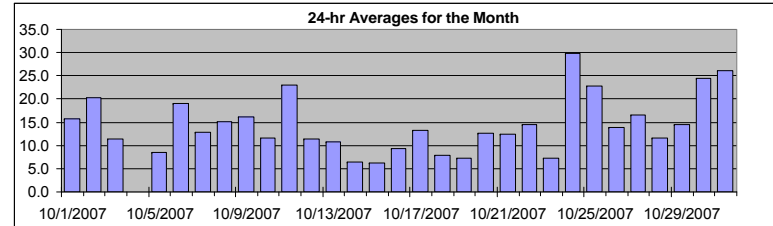
Wind Speed (WSs)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	50.4	km/hr	24-Oct	10:00 11:00
Maximum 24-hr Value:	29.9	km/hr	24-Oct	

Calm Time:	0 hrs	0% calms	Operational Time:	731 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	98.3%				
Percentile	99	95	75	50	25	5	1	AverageS
	42.9	32.3	18.3	11.9	7.9	4.5	3.1	14.3 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Oct-07	7	6	5	3	4	5	6	9	11	11	18	19	25	30	33	34	32	20	22	14	22	15	14	14	15.7	34.3	
2-Oct-07	8	5	16	13	16	12	4	7	12	20	30	31	37	37	38	35	36	30	18	11	18	19	15	17	20.2	38.2	
3-Oct-07	18	17	16	17	17	15	14	8	11	9	8	8	8	7	8	8	18	8	7	11	11	11	11	N	11.5	18.0	
4-Oct-07	N	N	N	N	N	N	N	N	N	N	9	9	8	8	8	8	6	6	8	8	5	7	8	7	N	9.4	
5-Oct-07	7	6	6	5	9	13	12	12	13	17	16	13	10	8	9	13	8	4	3	3	6	4	3	5	8.4	16.5	
6-Oct-07	11	6	6	8	14	8	11	16	17	25	33	38	38	38	42	37	30	17	17	19	14	8	4	3	19.1	42.4	
7-Oct-07	6	6	9	5	10	7	7	5	4	7	11	11	11	12	11	29	27	18	15	14	24	26	21	15	12.9	28.9	
8-Oct-07	15	13	14	19	20	18	11	13	15	18	26	24	22	19	18	20	16	11	11	10	12	5	6	6	15.1	26.1	
9-Oct-07	6	8	11	10	9	10	11	11	11	13	19	24	31	28	24	25	21	21	17	18	19	19	13	10	16.2	31.3	
10-Oct-07	11	14	15	17	16	16	15	13	12	14	13	12	13	12	10	7	11	12	7	8	7	8	8	10	11.7	17.3	
11-Oct-07	12	12	14	18	23	23	22	19	15	24	33	38	43	43	40	39	32	25	12	10	13	13	12	15	23.0	43.3	
12-Oct-07	16	16	15	15	12	10	10	9	8	10	10	13	16	20	18	17	14	9	4	4	6	7	7	7	11.4	20.2	
13-Oct-07	6	8	9	9	9	8	9	8	8	8	10	11	8	13	10	13	16	13	16	15	12	16	16	10	10.9	16.3	
14-Oct-07	9	4	4	4	3	3	2	4	3	6	5	8	7	9	6	5	8	8	10	12	9	9	9	8	6.5	11.7	
15-Oct-07	6	5	4	3	4	4	6	6	6	5	5	8	7	8	7	5	4	5	5	7	7	9	12	12	6.2	12.1	
16-Oct-07	12	11	10	8	9	6	6	8	7	6	5	8	9	10	12	11	8	7	9	6	13	13	15	12	9.3	15.0	
17-Oct-07	14	15	15	12	12	8	10	9	8	6	9	9	15	22	28	24	19	12	8	9	14	13	13	12	13.2	28.1	
18-Oct-07	9	10	10	8	9	6	7	7	7	8	8	7	7	6	7	6	3	6	8	8	11	13	10	10	7.9	12.5	
19-Oct-07	8	9	8	8	6	7	7	5	4	4	3	5	6	8	8	9	9	6	6	10	13	6	7	10	7.2	12.5	
20-Oct-07	13	13	15	14	11	13	11	10	9	11	10	11	12	15	19	16	15	8	10	10	12	14	15	15	12.6	18.7	
21-Oct-07	17	18	19	14	11	9	9	8	7	7	7	9	9	11	6	9	10	13	15	16	15	18	19	20	12.4	20.3	
22-Oct-07	17	10	5	13	17	17	12	21	18	18	20	19	20	18	14	11	9	10	14	15	13	13	13	9	14.4	20.5	
23-Oct-07	10	9	7	8	10	12	8	9	6	7	8	8	10	10	9	7	5	3	4	4	5	5	7	6	7.3	12.2	
24-Oct-07	10	15	16	13	7	16	39	41	P	P	50	45	43	49	47	50	45	32	21	25	21	22	23	26	29.9	50.4	
25-Oct-07	23	22	20	22	28	27	21	21	23	30	34	31	29	29	28	25	19	16	14	16	18	17	15	18	22.8	33.7	
26-Oct-07	21	32	23	25	20	10	8	6	5	8	10	16	16	16	15	13	12	12	13	12	9	9	12	9	13.9	31.6	
27-Oct-07	9	6	11	14	8	4	4	3	5	9	12	29	29	24	32	29	20	14	19	23	30	28	19	18	16.7	32.5	
28-Oct-07	15	18	16	19	19	16	17	10	8	8	7	8	10	12	13	15	15	8	5	8	9	7	7	7	11.6	19.1	
29-Oct-07	5	6	7	7	6	6	6	8	8	10	12	16	25	28	25	24	19	20	21	18	20	19	17	17	14.6	28.0	
30-Oct-07	19	18	19	22	22	17	18	21	19	19	20	22	31	36	38	26	22	28	23	28	31	27	29	27	24.4	38.4	
31-Oct-07	27	30	26	27	19	18	11	15	26	26	24	28	30	28	38	40	42	34	24	24	20	20	21	27	26.1	42.5	
1-hr Average	12.3	12.2	12.4	12.6	12.6	11.5	11.1	11.4	10.7	12.4	15.7	17.3	18.9	19.8	20.2	19.7	17.8	14.1	12.5	12.9	14.1	13.5	12.9	12.7			
Hourly Max	27.3	31.6	25.5	27.0	28.4	27.2	39.1	41.5	26.3	30.1	50.4	44.6	43.0	48.8	47.3	50.4	45.0	33.9	23.8	27.8	31.4	28.0	29.1	26.9			

PASZA - Smoky Heights Vector Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

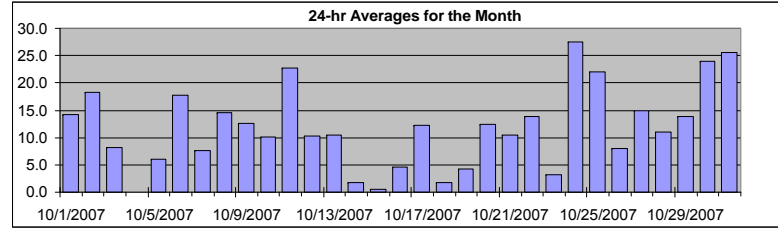
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	14.9	km/hr	7-Oct	15:00 16:00
Maximum 24-hr Value:	27.5	km/hr	24-Oct	



Calm Time:	0 hrs	0% calms	Operational Time:	731 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	98.3%				
Percentile	99	95	75	50	25	5	1	AverageV
	7.0	5.1	3.0	2.0	1.4	0.9	0.6	75.0 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-Oct-07	2	1	1	1	1	1	1	1	1	3	2	3	4	5	5	5	5	6	3	4	5	3	2	2		14.2	6.2
2-Oct-07	2	3	2	1	2	2	2	3	4	3	5	4	5	5	5	5	4	5	2	2	2	2	1	2		18.4	5.5
3-Oct-07	1	2	1	2	1	1	1	3	2	1	3	4	3	2	2	3	4	3	3	4	2	2	2	N		8.1	3.9
4-Oct-07	N	N	N	N	N	N	N	N	N	N	1	1	1	2	2	2	1	1	1	1	2	2	1	1		N	2.0
5-Oct-07	1	1	1	1	1	2	2	1	3	2	2	2	2	2	3	2	3	1	1	2	3	1	1	3		6.0	2.9
6-Oct-07	3	2	1	2	1	2	3	2	2	6	5	5	5	6	5	5	5	4	4	3	3	2	1	1		17.8	5.6
7-Oct-07	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	15	8	3	2	2	3	3	4	3		7.7	14.9
8-Oct-07	2	1	2	2	2	3	3	5	2	4	3	3	3	4	3	4	3	2	1	1	1	2	1	1		14.5	4.9
9-Oct-07	1	1	1	1	1	1	1	1	1	5	5	5	5	4	4	3	4	3	3	3	3	4	2	2		12.6	5.3
10-Oct-07	2	2	3	2	2	2	3	2	2	2	2	4	2	2	2	2	4	2	2	4	2	1	1	2		10.1	4.3
11-Oct-07	2	1	2	3	2	3	2	5	2	4	5	5	5	5	5	4	5	5	3	1	1	2	2	1		22.7	5.3
12-Oct-07	1	1	1	2	3	2	2	1	2	1	1	2	4	3	4	3	2	1	2	1	1	1	1	1		10.2	3.9
13-Oct-07	1	1	1	1	1	1	1	1	1	1	2	2	1	2	2	2	3	2	1	2	2	3	2	3		10.4	2.9
14-Oct-07	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	2	1	2	2	1	1	1		1.8	2.5
15-Oct-07	1	1	1	1	1	1	2	3	2	1	1	1	2	1	1	2	1	2	2	2	1	1	1	2		0.5	2.6
16-Oct-07	1	2	1	2	2	1	2	1	2	2	1	2	2	3	3	4	2	1	2	3	2	3	4	5		4.6	4.9
17-Oct-07	2	2	2	1	1	1	3	2	1	1	2	3	2	4	4	4	3	1	1	1	2	1	2	2		12.3	4.0
18-Oct-07	1	2	2	2	1	1	2	2	2	2	1	1	2	2	2	1	1	1	1	1	2	2	3	2		1.8	3.0
19-Oct-07	1	1	1	1	2	3	2	2	2	2	1	2	2	2	2	2	2	1	1	2	2	3	3	3		4.3	3.3
20-Oct-07	4	1	1	1	1	1	2	2	2	2	1	1	2	4	2	8	3	1	1	1	2	1	1	2		12.3	8.5
21-Oct-07	1	1	1	2	2	1	1	1	1	1	1	1	1	2	3	2	2	2	1	2	2	2	3	2		10.6	3.1
22-Oct-07	2	3	2	5	2	3	3	3	3	3	2	3	3	2	2	1	1	1	2	2	1	2	2	1		13.8	4.8
23-Oct-07	1	1	2	3	2	1	1	1	2	1	2	2	3	2	1	2	1	1	1	1	2	2	1	1		3.1	3.2
24-Oct-07	2	3	2	3	3	5	9	6	P	P	6	6	7	10	6	6	6	7	3	5	2	2	3	2		27.5	9.7
25-Oct-07	2	2	2	4	3	2	2	2	2	4	3	5	5	4	6	4	3	2	1	2	2	2	1	1		21.9	5.5
26-Oct-07	7	5	6	4	4	3	3	2	1	4	2	2	2	2	2	2	1	1	1	2	2	1	2	1		7.9	7.1
27-Oct-07	2	3	6	3	1	2	1	2	2	4	2	4	4	5	5	4	3	2	3	4	4	4	2	2		15.0	5.9
28-Oct-07	3	2	4	2	4	3	1	4	3	3	1	1	1	2	2	3	3	1	1	2	1	1	1	1		10.9	4.2
29-Oct-07	1	1	1	1	0	0	1	1	0	2	2	3	3	4	3	4	2	3	2	2	2	1	1	2		13.8	4.0
30-Oct-07	2	2	1	1	2	2	2	2	2	2	2	3	5	5	5	5	4	3	2	3	4	3	3	3		23.9	5.3
31-Oct-07	4	3	3	2	4	3	4	7	5	3	4	4	5	6	4	6	5	7	3	3	2	4	2	2		25.5	7.2
1-hr Vector	7.9	7.1	6.5	7.7	8.2	7.9	7.2	8.4	8.1	9.5	11.7	12.3	12.9	13.4	14.3	14.0	13.0	9.7	8.3	8.8	10.2	9.5	8.9	9.2			
Hourly Max	7.1	4.5	5.9	4.8	4.2	4.6	9.3	7.2	4.7	5.6	5.8	5.7	6.6	9.7	6.1	14.9	8.4	7.3	5.3	4.9	4.8	4.0	4.0	4.9			

PASZA - Smoky Heights Wind Direction Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	731 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	98.3%				
Percentile	99	95	75	50	25	5	1	Average
	347.7	280.5	247.7	225.6	172.7	18.3	7.5	250 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-Oct-07	309	49	2	14	157	249	222	215	236	238	232	235	238	249	251	249	247	244	236	226	231	231	225	218	240	WSW
2-Oct-07	233	204	185	184	186	182	215	170	229	217	224	228	251	255	244	260	258	258	258	226	244	255	249	260	238	WSW
3-Oct-07	257	262	261	259	259	257	260	264	266	263	308	294	292	18	19	348	253	271	258	3	350	19	31	N	283	WNW
4-Oct-07	N	N	N	N	N	N	N	N	N	N	18	16	18	20	24	21	17	19	17	21	11	5	27	21	N	-
5-Oct-07	19	27	40	94	150	157	157	165	210	202	208	191	170	168	163	168	165	106	288	264	189	198	211	172	175	S
6-Oct-07	165	222	205	182	178	211	193	219	231	240	240	247	249	241	246	243	247	253	232	240	255	209	172	151	235	SW
7-Oct-07	123	176	162	110	83	43	100	172	234	166	154	140	155	155	157	278	270	240	217	209	217	235	242	239	211	SSW
8-Oct-07	249	248	231	240	233	229	216	232	235	228	238	240	239	234	240	253	246	262	268	263	279	161	246	279	241	WSW
9-Oct-07	9	20	22	22	17	36	40	25	26	76	111	119	126	134	128	126	116	118	113	115	125	124	108	107	103	ESE
10-Oct-07	121	134	139	144	144	146	152	150	130	140	147	150	146	137	140	124	145	146	174	215	210	249	222	240	152	SSE
11-Oct-07	212	218	237	236	236	229	226	234	234	229	231	235	237	238	237	248	249	246	239	235	245	242	250	261	237	WSW
12-Oct-07	261	262	253	255	248	219	216	193	192	178	175	190	239	254	255	243	241	248	269	247	237	250	240	213	236	WSW
13-Oct-07	202	214	213	209	223	207	212	232	212	214	204	179	175	177	177	179	185	207	209	202	220	225	203	190	202	SSW
14-Oct-07	182	202	107	207	226	188	112	234	246	185	165	143	104	54	10	44	28	1	352	342	357	16	3	23	29	NNE
15-Oct-07	28	25	357	303	313	235	227	192	211	196	179	169	164	173	166	156	97	339	346	346	6	3	356	12	343	NNW
16-Oct-07	14	21	20	17	23	66	23	36	10	119	339	40	53	35	33	17	17	12	11	226	247	261	238	236	7	N
17-Oct-07	229	249	254	252	229	203	243	182	195	191	181	214	231	245	244	255	255	252	254	243	265	241	243	259	240	WSW
18-Oct-07	250	255	186	179	217	210	196	211	220	205	206	178	165	136	150	167	299	7	17	11	32	49	29	23	191	S
19-Oct-07	15	18	10	14	15	357	38	222	206	103	46	22	62	25	359	14	17	17	334	312	307	233	262	253	355	N
20-Oct-07	261	255	258	261	254	258	256	259	257	239	244	240	242	230	230	264	262	261	263	250	264	262	260	253	253	WSW
21-Oct-07	258	260	260	250	251	264	249	224	233	215	195	187	178	180	189	178	167	184	183	185	204	210	217	237	218	SW
22-Oct-07	246	209	340	205	216	221	217	208	225	222	223	229	244	242	239	231	224	211	221	214	223	212	228	260	226	SW
23-Oct-07	262	242	245	267	267	215	222	173	143	135	117	86	115	119	117	126	131	340	35	314	243	232	211	222	190	S
24-Oct-07	178	163	159	163	249	265	267	258	P	P	246	245	247	247	250	248	252	248	230	250	236	242	239	238	243	WSW
25-Oct-07	240	239	236	240	249	244	246	245	254	258	259	263	282	273	282	292	269	261	242	247	252	243	256	239	256	WSW
26-Oct-07	272	322	338	315	323	323	340	256	162	189	201	197	194	206	230	211	214	194	203	237	244	249	203	196	251	WSW
27-Oct-07	197	201	193	199	212	214	78	339	154	173	187	247	236	244	253	250	255	245	232	247	239	234	247	247	235	SW
28-Oct-07	211	222	214	237	236	228	220	255	184	179	209	202	188	194	236	220	224	235	238	227	215	203	178	180	217	SW
29-Oct-07	189	198	195	197	216	227	230	212	217	212	233	246	256	260	254	248	236	243	252	244	245	241	253	261	242	WSW
30-Oct-07	256	255	258	262	258	254	253	256	257	256	252	250	255	255	253	251	237	237	230	224	231	238	234	234	247	WSW
31-Oct-07	231	229	236	233	227	231	259	209	217	215	209	212	211	215	236	240	245	237	230	226	235	240	242	237	229	SW
Hourly Avg	241	245	237	236	235	230	232	226	225	214	222	224	229	233	240	245	243	242	238	238	242	238	239	241		

PASZA - Smoky Heights Standard Deviation of Wind Direction Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	731 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	98.3%			
Percentile	99	95	75	50	25	5	1
	81.3	51.2	15.5	8.9	5.8	3.4	2.4

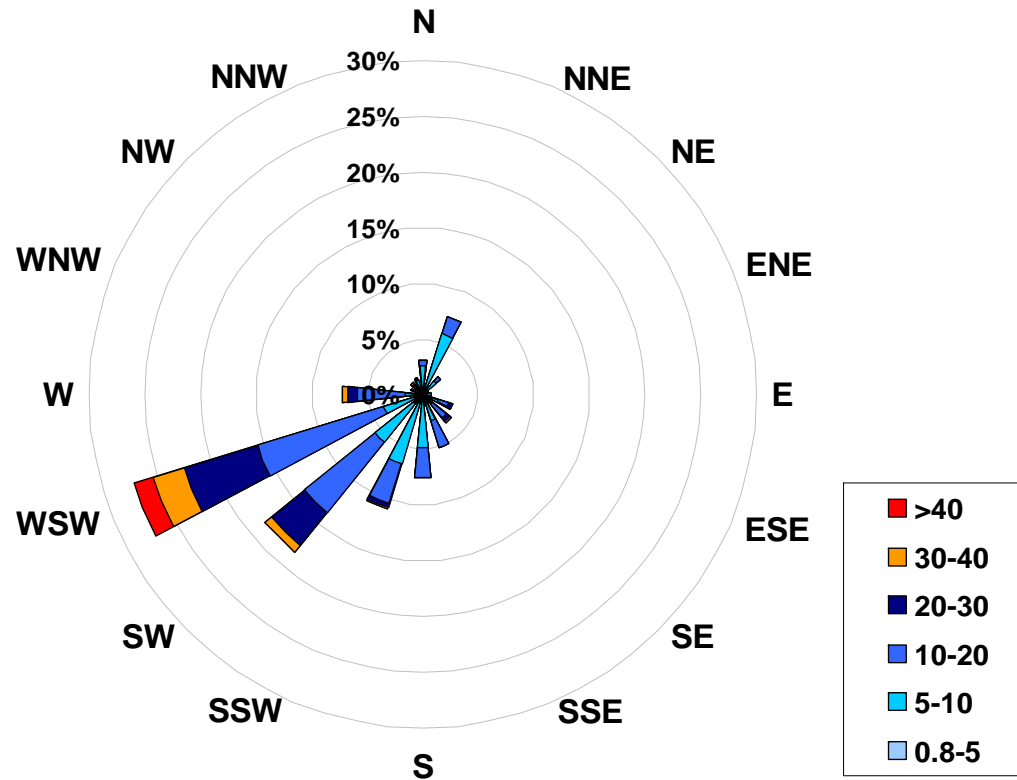
Status Flag Characters

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

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-Oct-07	32	63	49	94	36	8	19	14	5	9	6	7	10	10	7	8	9	8	4	5	6	6	3	4		94.0	
2-Oct-07	18	23	7	6	5	6	58	85	12	5	5	7	10	8	9	10	7	6	11	7	5	4	5	5		85.1	
3-Oct-07	3	5	6	4	3	7	8	42	5	12	40	29	30	62	42	38	11	12	48	55	11	11	4	N		62.2	
4-Oct-07	N	N	N	N	N	N	N	N	N	N	5	6	5	5	6	5	11	7	5	6	11	14	10	9		14.0	
5-Oct-07	8	15	10	55	9	6	7	23	7	9	14	16	12	21	27	11	22	14	48	76	47	23	27	23		76.3	
6-Oct-07	8	60	22	17	10	32	14	4	9	7	6	7	6	7	8	6	7	16	5	6	25	29	34	60		60.0	
7-Oct-07	67	72	10	27	12	15	55	37	47	11	6	6	8	7	11	51	6	14	15	8	12	7	4	8		71.8	
8-Oct-07	9	12	6	6	4	6	16	8	8	5	9	9	11	14	11	11	8	6	3	7	10	72	30	7		72.3	
9-Oct-07	38	10	4	4	5	11	9	5	5	30	8	8	9	7	8	8	7	5	6	7	9	6	7	9		38.3	
10-Oct-07	6	10	6	4	5	7	4	5	12	8	9	16	9	7	11	21	11	8	29	42	45	13	8	16		44.8	
11-Oct-07	13	9	11	9	4	3	4	5	10	5	5	5	7	6	6	6	5	4	8	6	4	7	7	3		12.9	
12-Oct-07	6	4	6	8	9	19	8	12	8	6	10	17	13	12	11	11	9	6	36	23	12	10	42	15		41.7	
13-Oct-07	19	9	7	11	7	18	10	5	9	10	11	10	15	14	12	11	11	6	6	10	22	5	9	8		21.5	
14-Oct-07	11	40	52	56	28	35	70	42	26	22	25	21	27	20	38	68	16	10	8	5	11	12	12	9		69.9	
15-Oct-07	17	25	24	23	73	43	35	24	22	35	20	17	16	9	10	37	36	44	29	11	8	8	10	4		72.8	
16-Oct-07	3	6	12	21	13	30	37	19	16	80	62	27	22	16	12	23	15	7	5	78	15	14	8	19		79.7	
17-Oct-07	9	9	6	8	26	15	18	9	14	12	11	16	9	10	8	10	6	5	10	12	12	3	12	8		26.1	
18-Oct-07	8	10	29	21	21	22	11	13	7	8	10	26	22	43	21	17	86	21	4	4	20	11	16	7		86.5	
19-Oct-07	6	6	15	9	19	52	28	68	83	46	49	59	88	32	14	8	10	10	7	5	41	22	35		87.9		
20-Oct-07	8	8	4	5	5	6	10	5	10	13	8	8	14	13	11	47	10	6	3	12	5	4	5	4		46.5	
21-Oct-07	3	2	1	9	8	10	16	14	12	20	13	10	9	8	14	13	12	5	4	5	7	9	8	6		19.8	
22-Oct-07	10	15	91	13	3	4	6	4	12	14	5	10	12	5	5	6	8	8	5	8	7	11	3	8		91.2	
23-Oct-07	6	9	14	33	30	6	15	18	11	12	12	25	20	10	13	16	18	70	22	80	39	30	17	12		79.8	
24-Oct-07	14	4	3	6	43	12	5	5	P	P	4	5	6	8	5	5	4	5	9	4	5	4	3	2		43.0	
25-Oct-07	2	3	3	4	3	3	3	4	3	4	5	6	9	8	9	13	4	4	9	5	4	3	10	5		12.8	
26-Oct-07	29	11	11	10	8	16	28	50	9	9	13	12	11	17	10	11	7	15	8	9	6	15	14	8		50.3	
27-Oct-07	8	54	65	7	7	35	87	82	52	46	16	7	7	11	7	8	5	8	8	11	5	6	5	14		87.4	
28-Oct-07	9	10	19	13	6	8	11	29	20	21	9	9	10	15	10	13	4	7	19	19	4	18	5	6		28.8	
29-Oct-07	7	9	3	3	8	8	5	5	7	12	10	10	8	9	6	6	5	7	4	8	5	2	5	4		12.1	
30-Oct-07	2	4	2	2	4	4	3	2	4	4	4	5	6	5	4	7	7	5	3	8	9	3	3	4		9.3	
31-Oct-07	4	2	6	3	3	6	29	17	3	3	6	4	6	11	5	5	7	6	4	4	5	6	7	3		28.7	
Hourly Max	67	72	91	94	73	52	87	85	83	80	62	59	59	88	42	68	86	70	48	80	47	72	42	60			

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



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	53
5	to	10	246
10	to	20	287
20	to	30	98
30	to	40	33
	>	40	14
Total Non-Zero Values			731

PASZA – Beaverlodge Station

Monthly Summary Tables, Graphs and Roses

PASZA - Beaverlodge AQI Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

Air Quality Index (AQI)

Monitoring Dates: October 1, 2007 to November 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:	692
Number of 1-hr Fair Readings:	1
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-Oct-07	11	12	13	7	N	5	3	2	4	N	N	N	N	N	N	16	N	11	N	N	N	12	12	
2-Oct-07	11	11	11	12	N	10	13	14	14	16	16	16	17	16	16	16	15	14	13	12	13	12	13	12
3-Oct-07	11	9	10	9	N	7	7	7	7	7	13	13	14	15	14	14	13	13	12	11	9	10	10	11
4-Oct-07	6	6	8	10	N	10	10	9	10	10	11	11	11	11	11	10	9	9	8	8	6	6	6	6
5-Oct-07	6	5	6	5	N	5	4	5	5	6	6	6	7	8	12	13	12	10	11	10	9	9	10	12
6-Oct-07	13	13	13	13	N	11	11	12	13	15	15	15	15	17	18	18	18	16	15	13	14	12	12	13
7-Oct-07	15	15	16	15	N	13	12	11	11	9	10	11	12	12	11	17	18	19	19	18	17	16	15	14
8-Oct-07	15	15	15	15	N	15	14	13	13	14	15	17	18	18	18	18	17	16	16	16	16	15	11	10
9-Oct-07	11	10	10	12	N	12	10	11	12	12	13	13	13	12	13	14	13	12	12	11	11	10	6	3
10-Oct-07	3	3	2	3	N	2	3	4	5	5	5	8	6	6	5	6	5	5	4	4	5	4	6	10
11-Oct-07	13	14	15	15	N	13	11	12	14	16	18	19	19	19	18	18	18	18	17	16	15	13	14	13
12-Oct-07	12	12	12	12	N	10	10	9	7	9	10	13	19	19	19	20	19	17	18	13	15	15	14	13
13-Oct-07	11	10	10	10	N	12	12	9	7	8	6	10	12	13	15	16	16	14	12	14	14	13	15	15
14-Oct-07	14	15	14	13	N	13	13	14	13	12	15	16	17	17	17	16	15	15	15	15	11	13	11	11
15-Oct-07	10	11	11	12	N	12	8	8	7	6	9	8	9	14	17	18	14	16	15	17	14	15	11	14
16-Oct-07	12	11	9	10	N	8	8	9	8	7	10	7	7	8	11	11	11	9	12	10	7	12	17	14
17-Oct-07	14	13	11	12	N	10	10	6	5	5	7	10	14	17	19	19	18	17	14	16	16	15	15	13
18-Oct-07	13	12	11	11	N	12	12	11	8	9	11	14	15	15	17	18	14	13	15	14	15	15	14	15
19-Oct-07	14	12	10	6	N	4	3	4	3	8	12	13	14	15	17	17	15	12	12	11	11	12	13	13
20-Oct-07	14	13	11	11	N	8	7	7	7	6	8	7	11	13	14	14	15	13	11	12	12	11	11	12
21-Oct-07	12	11	11	12	N	10	7	8	9	9	8	9	9	8	9	9	11	12	15	14	13	15	16	17
22-Oct-07	14	15	15	13	N	14	15	15	15	14	11	13	13	14	13	11	8	9	8	7	7	6	7	7
23-Oct-07	7	11	13	16	N	13	11	11	14	12	11	10	10	9	9	8	7	6	5	4	3	2	2	2
24-Oct-07	2	2	2	1	N	12	N	N	18	18	18	17	N	19	19	19	18	18	18	17	18	17	18	17
25-Oct-07	17	17	17	17	N	16	16	16	16	N	N	N	18	N	1	0	26	24	21	20	18	18	21	20
26-Oct-07	20	18	17	15	N	14	14	8	10	11	16	16	16	18	19	19	19	19	17	16	16	15	15	16
27-Oct-07	15	14	15	16	N	14	12	15	19	20	22	23	24	24	23	22	23	22	21	20	18	18	19	18
28-Oct-07	18	17	17	16	N	16	12	15	16	15	10	13	8	15	18	18	13	12	12	13	14	14	12	10
29-Oct-07	12	13	14	13	N	11	9	7	5	4	7	N	N	19	19	18	18	17	16	15	15	14	14	14
30-Oct-07	14	14	15	16	N	15	15	14	14	15	15	17	18	18	18	18	18	17	15	14	15	15	18	18
31-Oct-07	18	18	17	17	N	16	15	16	16	18	16	19	22	23	22	21	20	19	18	17	14	15	16	16

PASZA - Beaverlodge Sulphur Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

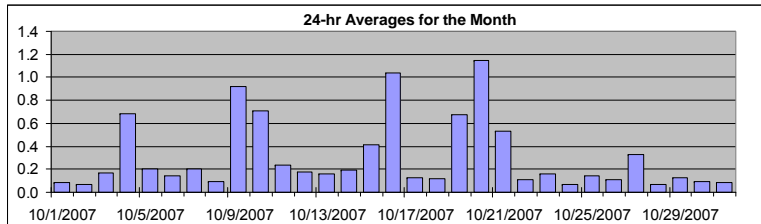
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2007 to November 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:	5.7 ppb 16-Oct 18:00 19:00
Maximum 24-hr Average:	1.1 ppb 20-Oct



AIC Time:	32 hrs	Operational Time:	710 hrs					
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%					
Percentile 99	95	75	50	25	5	1	Average	Median
2.2	1.2	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-Oct-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
2-Oct-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-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.2	0.7	
4-Oct-07	0	0	0	0	A	0	0	0	1	1	1	1	1	2	2	3	1	0	0	0	0	0	1	0	0.7	2.5	
5-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
6-Oct-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	1.1	
7-Oct-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	0.7	
8-Oct-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	
9-Oct-07	0	0	0	0	A	0	0	1	1	1	2	1	2	1	1	1	2	1	1	1	1	1	1	0	0.9	2.1	
10-Oct-07	0	0	0	0	A	0	0	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	0	0	0.7	2.8	
11-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0.2	2.3	
12-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
13-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
14-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
15-Oct-07	0	0	0	0	A	1	0	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0.4	1.1	
16-Oct-07	1	1	1	1	A	1	0	1	1	1	1	1	1	1	1	1	1	2	6	1	0	0	0	0	1.0	5.7	
17-Oct-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	0.5	
18-Oct-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	
19-Oct-07	0	0	0	0	A	0	0	0	0	0	1	2	1	1	1	1	1	1	1	1	1	1	0	0	0.7	1.6	
20-Oct-07	1	1	0	0	A	0	0	0	1	1	1	1	4	3	1	1	1	2	2	1	2	1	0	2	1.1	4.0	
21-Oct-07	4	2	1	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.5	4.3	
22-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.1	0.7	
23-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0.2	0.6	
24-Oct-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	
25-Oct-07	0	0	0	0	A	0	0	0	1	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0	
26-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
27-Oct-07	0	0	0	0	A	0	0	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0.3	1.3	
28-Oct-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	0.1	
29-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.1	0.8	
30-Oct-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	0.5	
31-Oct-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	0.1	
Hourly Avg	0.3	0.2	0.2	0.2	N	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.5	0.4	0.3	0.4	0.5	0.4	0.5	0.4	0.3	0.2	0.2	0.3			
Hourly Max	4.3	2.2	1.3	0.7	0.0	0.9	0.5	0.8	1.4	1.2	2.1	1.5	4.0	3.2	1.7	2.5	2.3	2.2	5.7	2.8	2.1	1.0	0.7	2.2			

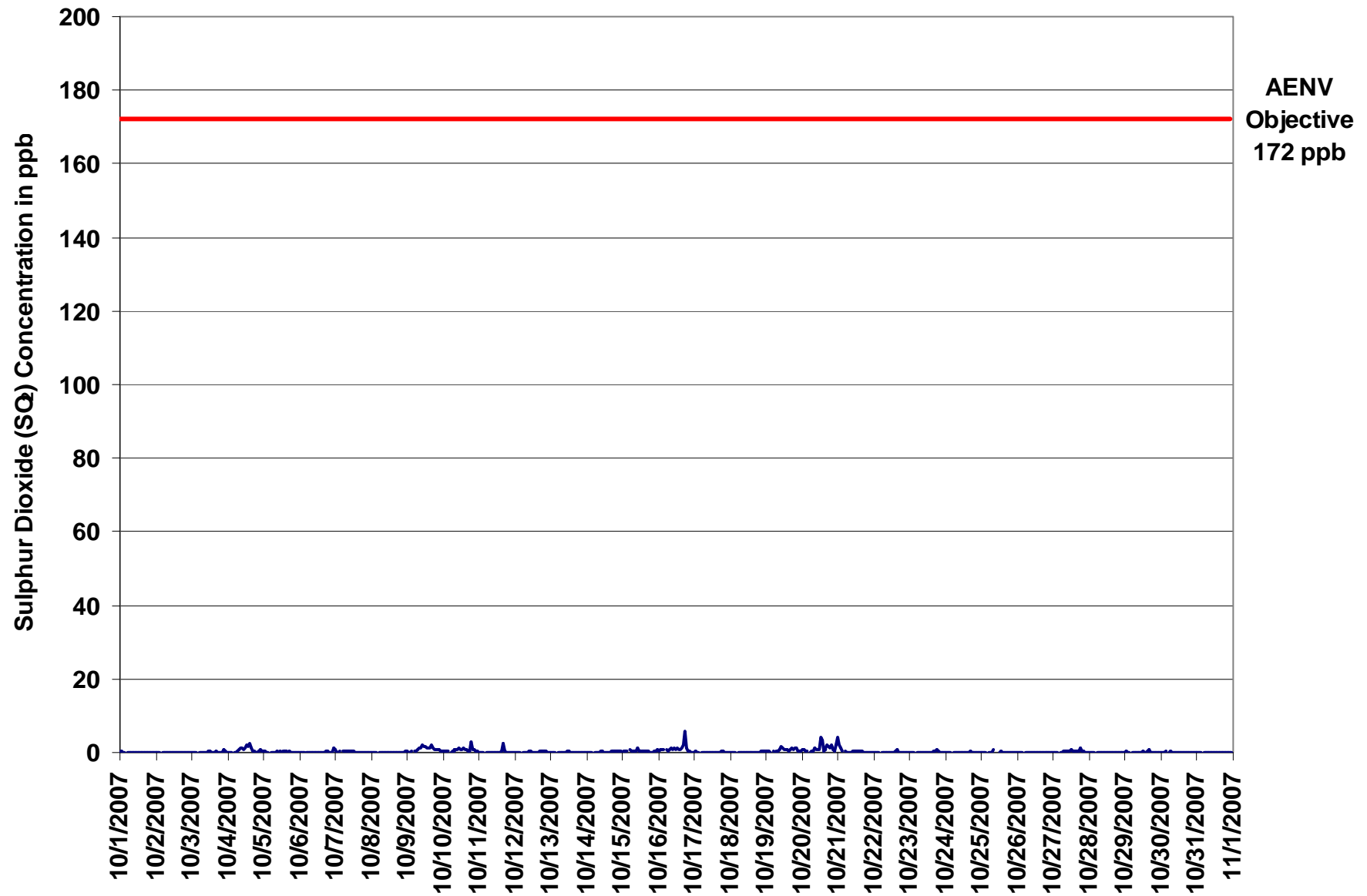


Figure 34. PASZA - Beaverlodge Sulphur Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

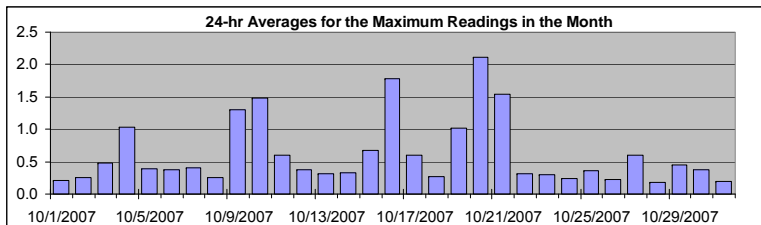
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	11.6	ppb	21-Oct	0:00 1:00
Maximum 24-hr Value:	2.1	ppb	20-Oct	



AIC Time:	32 hrs	Operational Time:	710 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.4	2.2	0.6	0.3	0.2	0.1	0.1	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

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-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
2-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0.3	0.5
3-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	2	1	0	0.5	2.0
4-Oct-07	0	0	0	0	A	0	0	1	1	2	2	2	2	3	3	3	2	1	0	0	0	1	1	1	1.0	3.1
5-Oct-07	1	0	0	0	A	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0.4	1.2
6-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	3	0.4	2.6
7-Oct-07	2	0	0	1	A	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.2
8-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	1.1
9-Oct-07	1	0	0	0	A	0	0	1	2	2	5	2	2	2	1	1	2	2	1	1	1	1	1	1	1.3	5.3
10-Oct-07	0	0	0	0	A	0	0	1	2	2	2	2	2	1	5	1	1	1	2	7	1	1	1	0	1.5	7.0
11-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	3	5	1	0	0	0	0	0	0	0.6	4.8
12-Oct-07	0	0	0	0	A	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	1	1	0	0	0.4	1.6
13-Oct-07	0	0	0	0	A	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0.3	1.3
14-Oct-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	0.3	0.6
15-Oct-07	0	0	0	1	A	1	1	1	1	1	2	1	1	0	0	0	1	1	0	0	0	1	1	1	0.7	2.0
16-Oct-07	1	3	2	1	A	2	1	1	2	1	1	1	1	1	1	2	3	8	6	1	0	0	0	0	1.8	7.8
17-Oct-07	0	2	0	0	A	0	0	0	0	0	0	0	0	0	0	1	0	3	4	0	0	0	0	0	0.6	3.9
18-Oct-07	0	0	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
19-Oct-07	0	0	0	0	A	1	0	1	1	1	2	1	3	1	1	1	1	2	1	2	1	1	1	1	1.0	2.6
20-Oct-07	1	1	1	0	A	0	1	0	3	1	1	1	6	5	1	1	2	3	2	2	5	3	1	7	2.1	7.2
21-Oct-07	12	11	5	1	A	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1.5	11.6
22-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0.3	2.1
23-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0.3	0.8
24-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.2	1.8
25-Oct-07	0	0	0	0	A	0	0	1	3	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.8
26-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
27-Oct-07	0	0	0	0	A	0	0	0	1	1	1	1	1	1	0	1	0	0	4	0	0	0	0	0	0.6	4.0
28-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
29-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	1	0	0	2	3	0	0	0	0	0	0	0	0.5	3.0
30-Oct-07	0	0	1	2	A	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.0
31-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
Hourly Avg	0.7	0.8	0.5	0.4	N	0.3	0.4	0.4	0.6	0.5	0.8	0.6	0.8	0.7	0.6	0.7	0.9	0.6	0.9	0.9	0.5	0.5	0.3	0.6		
Hourly Max	11.6	11.0	5.5	1.8	0.0	1.8	2.0	1.5	2.8	2.0	5.3	2.2	6.5	5.2	5.2	3.1	4.8	3.4	7.8	7.0	4.8	2.9	1.0	7.2		

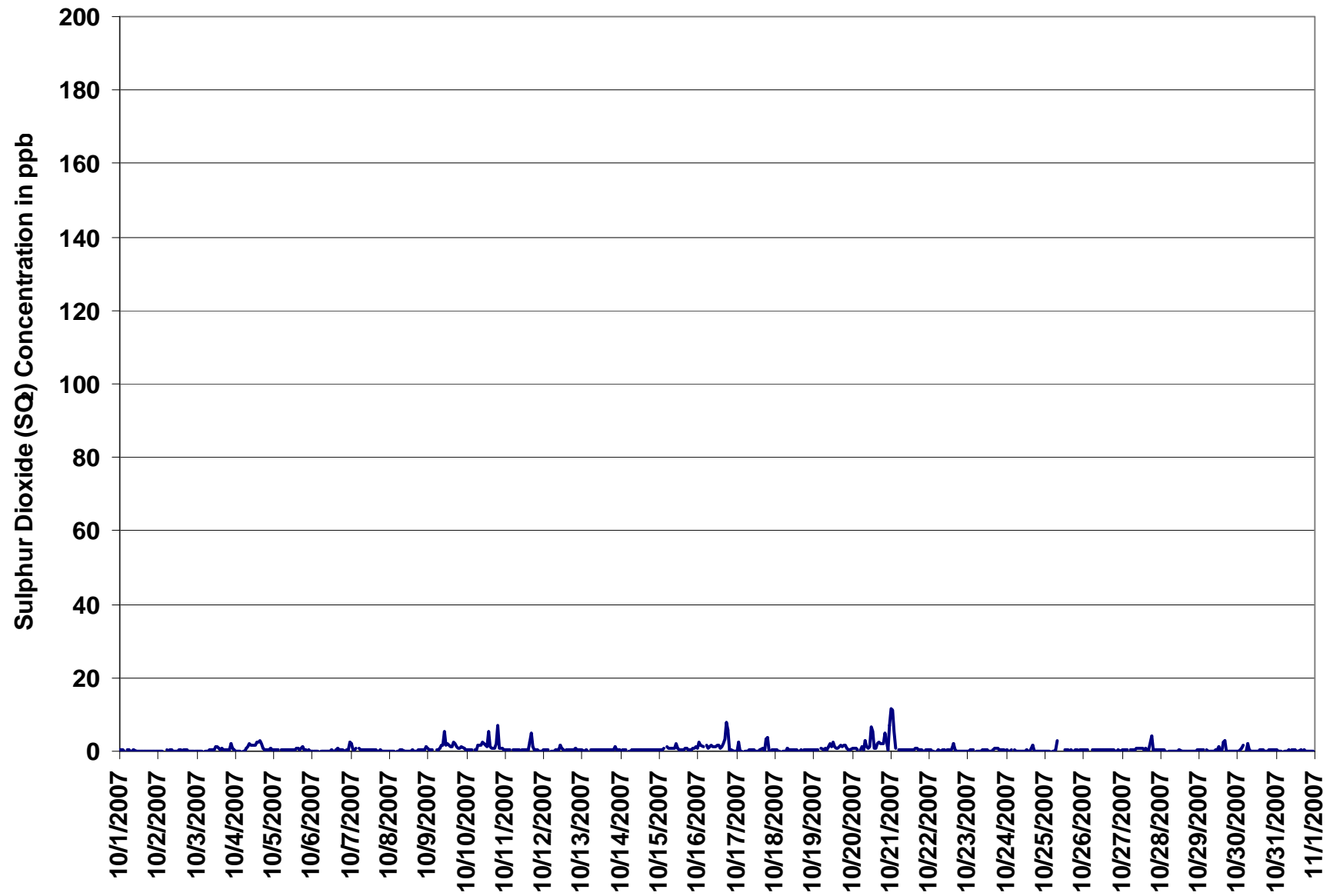
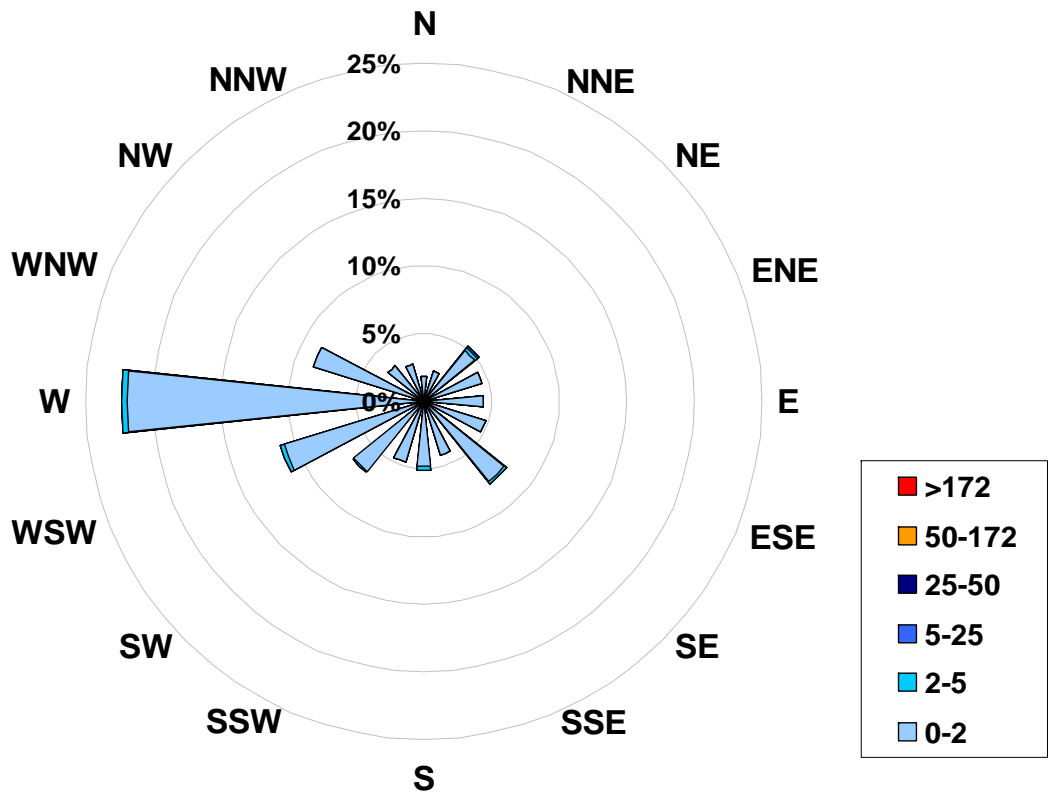


Figure 35. PASZA - Beaverlodge Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	< 2		697
2	to 5		12
5	to 25		1
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			710

PASZA - Beaverlodge Nitrogen Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

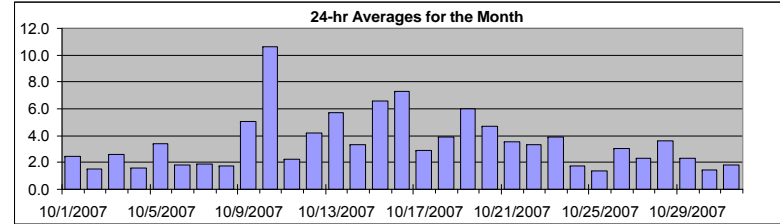
Nitrogen Dioxide (NO₂)

Monitoring Dates: October 1, 2007 to November 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:	14.8	ppb	16-Oct	7:00 8:00
Maximum 24-hr Average:	10.6	ppb	10-Oct	



AIC Time:	32 hrs	Operational Time:	708 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	11.7	9.3	4.9	2.8	1.2	0.8	0.5	3.5 ppb	2.8 ppb

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Oct-07	4	4	3	4	A	4	5	7	3	1	1	1	1	1	1	1	1	1	2	3	2	2	2	2	2.4	7.2
2-Oct-07	2	2	2	2	A	4	2	2	4	1	1	1	1	1	1	1	1	1	2	2	3	1	1	1	1.5	3.9
3-Oct-07	1	2	2	2	A	4	5	7	5	5	2	1	1	1	1	1	2	2	2	3	4	3	3	1	2.6	7.0
4-Oct-07	1	1	1	0	A	1	2	2	2	1	1	1	1	1	1	1	1	1	2	2	4	4	4	3	1.6	4.4
5-Oct-07	3	4	3	3	A	3	4	4	2	2	1	1	1	2	1	2	3	6	5	6	7	7	4	2	3.4	7.1
6-Oct-07	2	2	2	2	A	2	2	1	1	1	1	1	1	1	1	1	1	1	3	6	2	3	2	3	1.8	6.4
7-Oct-07	2	1	1	2	A	2	3	3	3	4	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1.8	4.3
8-Oct-07	1	1	1	1	A	1	2	3	3	3	1	1	0	0	0	0	1	2	2	1	1	1	6	6	1.7	6.4
9-Oct-07	4	3	6	3	A	4	6	5	5	5	4	5	5	5	4	4	5	5	5	4	5	8	10	5.1	9.7	
10-Oct-07	10	11	10	9	A	9	9	11	11	10	11	10	11	11	10	12	10	9	11	13	13	14	11	7	10.6	14.4
11-Oct-07	4	2	1	2	A	4	5	4	2	2	1	1	1	1	1	1	1	1	2	3	3	4	3	3	2.2	5.3
12-Oct-07	3	3	4	4	A	5	5	7	9	5	4	3	1	1	1	1	2	4	3	9	7	5	5	6	4.2	9.3
13-Oct-07	6	7	7	5	A	3	4	7	11	7	7	7	5	5	3	3	4	8	9	6	8	5	3	2	5.7	10.9
14-Oct-07	3	4	4	3	A	3	4	3	3	5	5	2	1	1	1	1	2	4	3	3	4	8	3	5	3.3	8.2
15-Oct-07	5	4	4	4	A	6	8	8	12	9	14	8	7	5	4	3	9	5	5	3	8	6	8	5	6.6	14.3
16-Oct-07	7	6	7	6	A	9	9	15	8	9	6	9	10	10	6	5	6	7	6	9	10	4	1	2	7.3	14.8
17-Oct-07	2	2	2	2	A	2	2	7	6	7	4	3	2	1	1	1	1	2	5	3	4	2	3	2	2.9	7.1
18-Oct-07	3	4	4	3	A	4	4	5	7	7	4	3	3	3	2	1	4	5	4	5	4	4	5	3	3.9	7.4
19-Oct-07	4	4	5	6	A	14	9	13	9	8	3	3	2	2	2	2	5	8	6	9	10	6	4	4	6.0	14.0
20-Oct-07	3	4	5	4	A	6	7	7	7	9	5	4	2	2	2	3	3	5	9	6	7	5	3	2	4.7	9.3
21-Oct-07	1	2	1	1	A	2	5	4	4	3	6	5	5	6	6	5	5	5	2	3	4	2	2	1	3.5	6.1
22-Oct-07	3	2	1	2	A	4	3	2	2	2	5	2	3	2	2	3	5	4	5	7	4	5	4	4	3.3	6.9
23-Oct-07	4	2	1	1	A	4	6	5	2	3	3	2	2	2	3	3	4	4	6	6	9	6	6	6	3.9	9.4
24-Oct-07	6	6	6	5	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1.7	6.4
25-Oct-07	1	0	1	1	A	1	1	1	1	C	C	C	C	A	1	1	1	2	3	3	3	2	1	1	1.4	3.3
26-Oct-07	1	1	2	4	A	6	5	11	6	5	2	2	2	1	1	1	1	1	2	3	4	3	3	2	3.0	10.8
27-Oct-07	4	3	3	3	A	6	8	5	3	2	1	1	1	1	1	1	1	1	2	2	1	1	1	1	2.3	7.9
28-Oct-07	1	1	1	1	A	2	6	2	1	3	7	3	7	2	1	1	8	5	9	5	4	3	5	4	3.6	8.5
29-Oct-07	3	3	3	3	A	6	4	6	5	5	3	1	1	1	1	1	1	1	1	1	1	1	1	1	2.3	5.6
30-Oct-07	1	1	1	1	A	1	1	3	3	1	1	1	1	1	1	1	1	1	2	3	3	3	1	2	1.4	3.2
31-Oct-07	1	1	1	1	A	3	5	3	4	1	4	2	1	1	1	1	1	1	1	1	4	3	1	1	1.8	4.7
Hourly Avg	3.0	3.0	3.1	2.9	N	4.0	4.6	5.4	4.7	4.3	3.7	2.9	2.7	2.4	2.0	2.1	3.0	3.4	3.8	4.3	4.7	3.9	3.4	3.1		
Hourly Max	10.0	10.7	9.9	9.0	0.0	14.0	9.1	14.8	11.6	9.7	14.3	10.3	10.9	10.6	10.4	11.7	10.4	9.3	10.5	13.5	13.3	14.4	10.9	9.7		

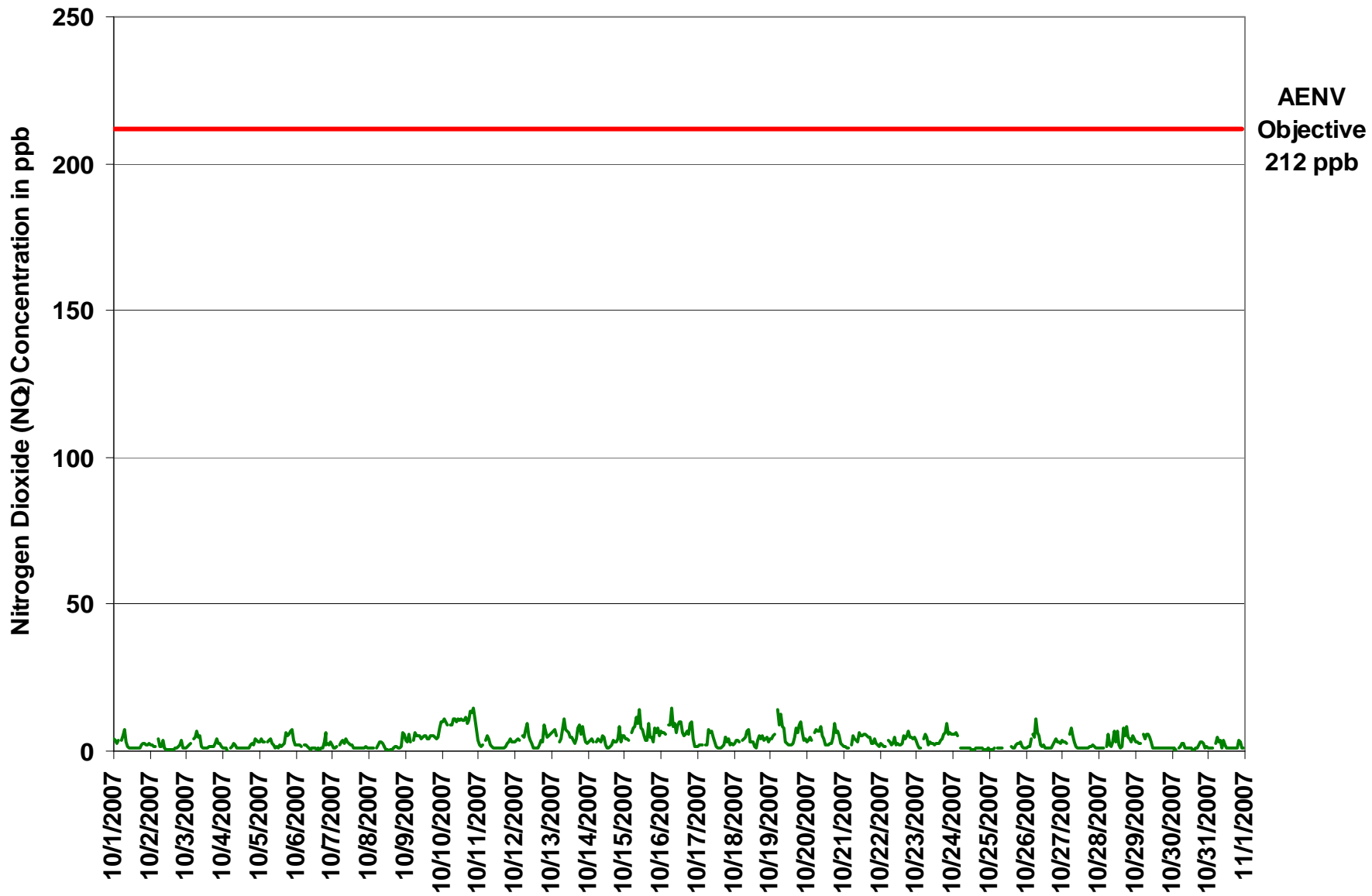


Figure 36. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

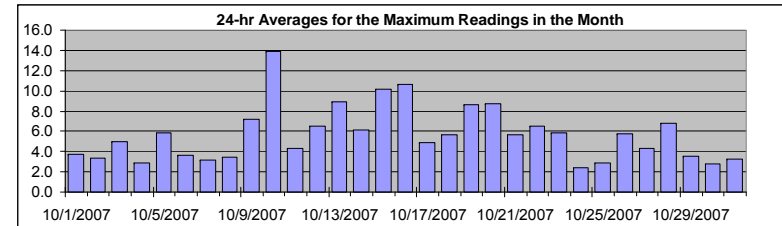
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	33.6	ppb	10-Oct	10:00 11:00
Maximum 24-hr Value:	13.9	ppb	10-Oct	



AIC Time:	32 hrs	Operational Time:	708 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	20.8	14.3	7.8	4.1	2.0	1.0	0.9	5.7 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

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-Oct-07	4	4	7	5	A	5	10	9	6	2	1	1	1	2	1	1	1	2	6	5	3	3	4	3	3.8	10.2
2-Oct-07	2	2	3	2	A	11	3	3	10	3	1	1	1	1	1	1	2	3	6	4	10	4	1	2	3.4	11.1
3-Oct-07	2	2	3	7	A	7	6	11	9	6	4	2	2	4	12	2	4	3	3	6	7	4	4	3	5.0	12.2
4-Oct-07	2	1	1	1	A	2	3	4	4	1	1	1	1	1	2	2	1	3	4	4	3	15	5	5	2.9	15.0
5-Oct-07	4	6	4	4	A	4	5	6	4	3	2	2	2	3	2	3	5	23	14	7	9	13	5	3	5.9	22.9
6-Oct-07	2	3	2	4	A	3	4	2	2	1	1	1	7	1	1	4	1	3	9	14	5	5	3	5	3.6	13.8
7-Oct-07	5	2	2	2	A	3	4	5	5	7	4	3	3	4	4	2	2	3	2	2	2	2	3	1	3.2	7.1
8-Oct-07	1	1	1	2	A	2	4	4	6	6	2	1	1	3	3	1	1	8	4	2	3	3	10	9	3.4	10.2
9-Oct-07	5	4	15	9	A	5	10	9	6	6	5	6	7	8	5	6	7	7	7	6	5	5	9	11	7.2	15.3
10-Oct-07	11	11	12	10	A	10	11	14	19	14	34	15	14	12	18	14	11	10	12	15	14	15	14	9	13.9	33.6
11-Oct-07	7	4	3	3	A	10	13	8	3	3	1	2	2	2	2	2	2	2	4	6	6	6	4	3	4.3	13.2
12-Oct-07	4	4	5	5	A	6	8	14	17	6	4	3	2	2	2	2	4	8	10	12	9	8	7	7	6.6	17.4
13-Oct-07	8	8	8	7	A	4	6	10	14	8	8	8	6	7	4	4	15	18	11	13	22	7	4	3	8.9	22.1
14-Oct-07	4	4	5	4	A	5	8	7	5	15	7	3	2	1	2	3	4	6	6	4	8	22	7	7	6.1	21.9
15-Oct-07	5	5	4	4	A	10	13	15	21	14	21	10	8	6	5	5	15	10	9	6	13	12	13	6	10.2	21.5
16-Oct-07	8	8	8	8	A	12	12	21	24	13	8	15	15	12	8	7	7	9	7	14	12	9	2	3	10.6	23.5
17-Oct-07	5	4	3	3	A	4	4	14	8	8	6	5	2	1	2	1	4	4	8	5	8	4	4	3	4.9	14.3
18-Oct-07	3	4	4	4	A	12	5	6	13	10	5	4	3	4	2	2	7	6	7	7	5	6	6	3	5.6	13.3
19-Oct-07	5	5	8	12	A	20	12	18	14	10	8	3	2	2	2	4	7	10	9	12	13	9	5	5	8.6	20.5
20-Oct-07	4	4	7	5	A	11	21	17	12	15	8	8	3	2	4	4	4	9	14	13	15	9	5	3	8.7	20.7
21-Oct-07	2	2	2	2	A	6	10	5	4	4	9	8	7	7	6	6	14	8	4	4	9	3	3	3	5.7	14.3
22-Oct-07	4	3	2	4	A	8	7	6	5	7	7	4	5	7	4	5	11	6	8	17	7	7	6	7	6.5	17.4
23-Oct-07	5	4	2	2	A	9	12	10	4	4	4	3	3	3	3	4	4	5	7	8	11	11	7	7	5.8	12.2
24-Oct-07	7	6	8	6	A	4	1	2	2	1	1	1	1	1	1	1	2	2	2	1	2	1	1	1	2.4	8.2
25-Oct-07	1	1	1	1	A	2	2	2	1	C	C	C	C	A	3	1	2	6	6	7	7	4	3	2	2.9	6.9
26-Oct-07	1	2	2	8	A	21	13	16	8	8	3	3	3	2	1	2	3	3	5	7	10	5	5	3	5.7	21.5
27-Oct-07	6	5	4	3	A	9	16	10	6	4	2	2	2	3	2	3	3	3	3	4	4	3	3	1	4.3	16.1
28-Oct-07	2	2	3	1	A	5	10	4	3	9	11	8	14	5	3	4	14	9	12	8	9	9	9	6	6.8	13.7
29-Oct-07	4	4	3	3	A	9	7	8	8	6	5	3	2	2	1	2	2	2	2	3	3	3	1	2	3.6	9.1
30-Oct-07	2	2	2	1	A	2	3	6	5	3	2	2	1	2	1	1	2	2	4	5	7	6	2	3	2.8	6.8
31-Oct-07	1	2	1	3	A	5	10	5	7	3	6	4	2	1	2	2	2	3	2	2	6	5	2	2	3.3	9.7
Hourly Avg	4.1	3.9	4.4	4.4	N	7.4	8.2	8.8	8.3	6.7	6.0	4.4	4.1	3.7	3.5	3.2	5.3	6.3	6.7	7.3	8.0	7.1	5.1	4.3		
Hourly Max	10.5	11.2	15.3	12.2	0.0	21.5	20.7	20.8	23.5	15.3	33.6	15.1	15.3	12.3	17.5	13.6	15.4	22.9	14.3	17.4	22.1	21.9	14.3	11.2		

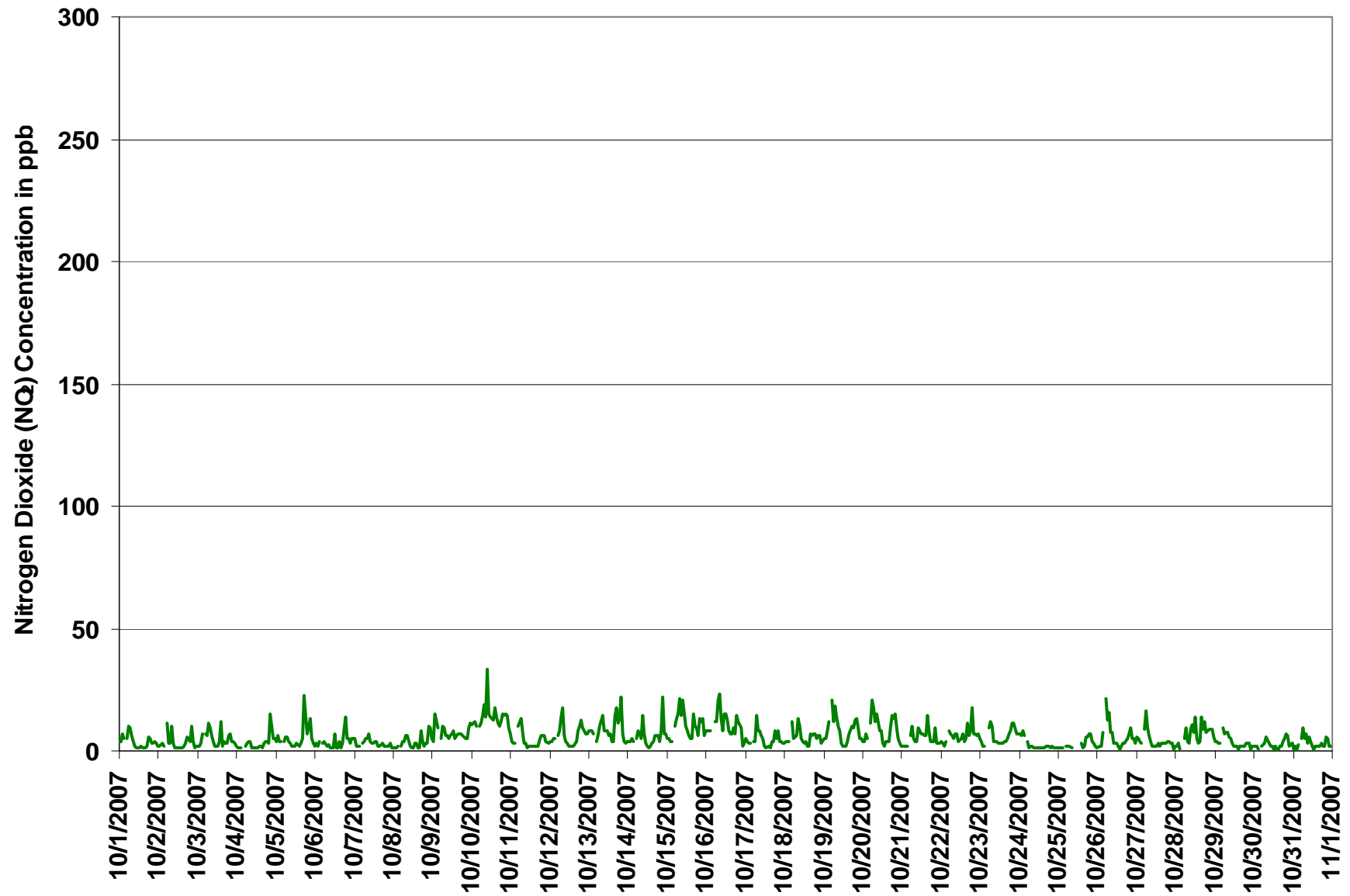
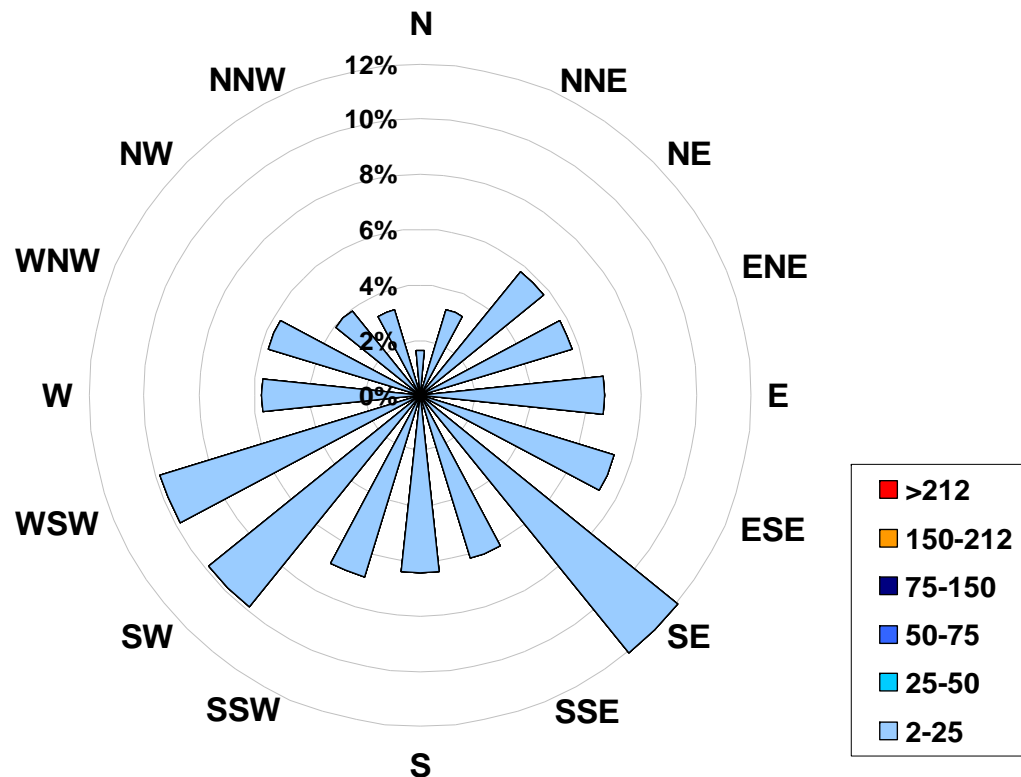


Figure 37. PASZA - Beaverlodge Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		706
25	to 50		2
50	to 75		0
75	to 150		0
150	to 212		0
	> 212		0
Total Non-Zero Values			708

PASZA - Beaverlodge Nitric Oxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Nitric Oxide (NO)

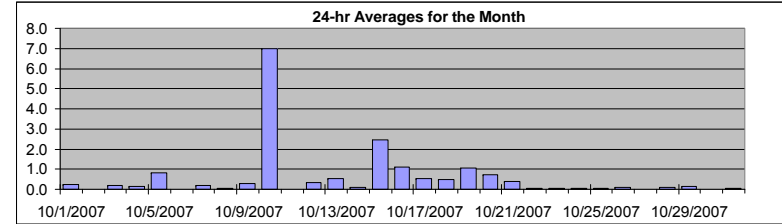
Monitoring Dates: October 1, 2007 to November 1, 2007

Guideline Limit:

1-hr	na	ppb	24-hr	na	ppb
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 Summary

Maximum 1-hr Average:	30.3	ppb	10-Oct	11:00	12:00
Maximum 24-hr Average:	7.0	ppb	10-Oct		



AIC Time:	32 hrs	Operational Time:	708 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	11.0	2.6	0.1	0.0	0.0	0.0	0.0	0.6 ppb	0.0 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
1-Oct-07	0	0	0	0	A	0	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.5
2-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3
3-Oct-07	0	0	0	0	A	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.2	1.3
4-Oct-07	0	0	0	0	A	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0.2	0.8
5-Oct-07	0	0	0	0	A	0	0	1	2	4	2	3	2	2	1	1	1	1	0	0	0	0	0	0	0	0.8	3.5
6-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
7-Oct-07	0	0	0	0	A	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.4
8-Oct-07	0	0	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6
9-Oct-07	0	0	0	0	A	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.3	1.2
10-Oct-07	0	0	0	0	A	1	3	12	13	13	22	30	17	11	8	9	10	4	2	2	2	2	0	0	7.0	30.3	
11-Oct-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	
12-Oct-07	0	0	0	0	A	0	0	0	3	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.7	
13-Oct-07	0	0	0	0	A	0	0	0	1	1	2	3	2	1	0	0	0	0	0	0	1	0	0	0	0.5	2.8	
14-Oct-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	0.1	1.4	
15-Oct-07	0	0	0	0	A	0	0	0	8	6	28	7	4	2	1	0	0	0	0	0	0	0	0	0	2.4	27.7	
16-Oct-07	0	0	0	0	A	1	0	8	1	3	1	3	3	3	1	1	1	0	0	0	0	0	0	0	1.1	7.9	
17-Oct-07	0	0	0	0	A	0	0	1	2	5	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0.5	4.5	
18-Oct-07	0	0	0	0	A	0	0	0	4	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0.5	4.0	
19-Oct-07	0	0	0	0	A	5	1	4	7	5	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1.1	6.9	
20-Oct-07	0	0	0	0	A	0	2	0	2	7	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0.7	6.9	
21-Oct-07	0	0	0	0	A	0	0	0	0	0	2	1	1	1	2	1	0	0	0	0	0	0	0	0	0.4	2.1	
22-Oct-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	0.5	
23-Oct-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	0.3	
24-Oct-07	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.8	
25-Oct-07	0	0	0	0	A	0	0	0	0	C	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
26-Oct-07	0	0	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.4	
27-Oct-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	
28-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0.1	2.0	
29-Oct-07	0	0	0	0	A	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.8	
30-Oct-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	
31-Oct-07	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.6	
Hourly Avg	0.0	0.0	0.0	0.0	N	0.2	0.2	0.9	1.5	1.9	2.5	1.9	1.2	0.8	0.5	0.4	0.4	0.2	0.1	0.1	0.1	0.1	0.0	0.0			
Hourly Max	0.0	0.0	0.4	0.8	0.0	4.7	2.8	12.4	12.5	12.7	27.7	30.3	16.7	11.1	7.7	9.3	9.6	4.5	1.7	2.4	2.5	1.8	0.1	0.1			

PASZA - Beaverlodge Oxides of Nitrogen Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

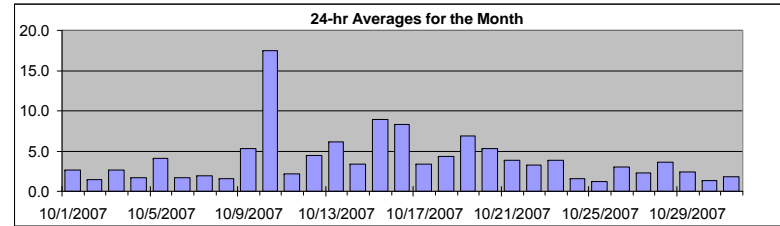
Monitoring Dates: October 1, 2007 to November 1, 2007

Guideline Limit: Alberta Environment:

1-hr	na	ppb	24-hr	na	ppb
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 Summary

Maximum 1-hr Average:	42.0	ppb	15-Oct	10:00 11:00
Maximum 24-hr Average:	17.5	ppb	10-Oct	



AIC Time:	32 hrs	Operational Time:	708 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	22.3	10.8	5.1	2.8	1.2	0.6	0.2	4.0 ppb	2.8 ppb

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Oct-07	4	3	2	4	A	4	6	10	5	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2.6	9.6
2-Oct-07	2	2	2	1	A	4	2	1	4	1	1	0	1	0	1	1	1	1	2	2	3	1	1	1	1.5	3.9
3-Oct-07	1	1	2	2	A	4	4	7	6	6	2	1	1	2	1	1	2	1	2	3	4	3	2	1	2.7	7.4
4-Oct-07	1	1	0	0	A	1	2	3	2	1	2	1	1	2	1	1	1	2	2	2	4	3	3	3	1.7	4.4
5-Oct-07	3	4	3	3	A	3	4	5	4	6	4	5	3	4	2	3	3	7	5	5	6	7	4	2	4.1	7.1
6-Oct-07	2	2	2	2	A	2	2	1	1	1	1	1	1	1	1	1	1	1	3	6	2	2	2	3	1.7	6.2
7-Oct-07	2	1	1	2	A	2	3	3	3	5	5	4	3	2	2	1	1	1	1	1	1	1	1	1	1.9	5.0
8-Oct-07	1	1	0	1	A	1	2	3	4	3	2	0	0	0	0	0	1	2	1	1	1	1	6	6	1.6	6.1
9-Oct-07	3	3	6	3	A	4	6	5	6	6	5	6	6	6	5	5	5	6	5	4	4	7	10	10	5.3	9.6
10-Oct-07	10	11	10	9	A	9	11	24	23	22	33	41	28	22	18	21	20	14	12	16	16	16	11	7	17.5	40.6
11-Oct-07	4	2	1	2	A	3	5	4	2	2	1	1	1	1	1	1	1	1	2	2	3	4	3	3	2.1	5.3
12-Oct-07	3	3	4	4	A	5	5	7	12	8	5	4	1	1	1	1	2	4	3	9	6	5	5	5	4.4	11.9
13-Oct-07	6	7	7	5	A	3	4	7	12	9	9	9	6	6	4	3	4	8	8	6	9	5	3	2	6.1	12.0
14-Oct-07	3	3	4	3	A	3	4	3	3	7	6	2	1	1	1	1	2	3	3	3	4	8	3	5	3.4	8.0
15-Oct-07	5	4	4	4	A	6	8	9	19	16	42	15	11	7	5	4	10	5	5	3	7	6	7	5	8.9	42.0
16-Oct-07	7	6	6	5	A	10	9	23	9	12	7	12	14	13	7	6	6	7	6	9	10	4	1	2	8.3	22.6
17-Oct-07	2	2	2	2	A	2	2	8	8	11	8	5	2	1	1	1	1	2	5	3	4	2	3	2	3.3	11.4
18-Oct-07	3	4	3	3	A	4	4	5	10	11	6	4	4	3	2	1	4	5	4	5	4	4	5	3	4.3	10.9
19-Oct-07	4	4	5	6	A	19	10	17	15	13	4	4	3	2	2	3	5	8	6	9	10	6	3	4	6.9	18.6
20-Oct-07	3	3	5	4	A	6	9	7	9	15	8	6	3	2	2	3	3	5	9	6	7	5	3	2	5.3	15.4
21-Oct-07	1	1	1	1	A	2	5	4	4	3	8	6	6	7	8	6	5	5	2	2	4	2	2	1	3.8	7.6
22-Oct-07	3	2	1	2	A	3	3	2	2	3	5	2	3	2	2	3	6	4	5	7	4	5	4	4	3.3	6.8
23-Oct-07	4	2	1	1	A	4	6	5	2	3	3	2	2	3	3	3	4	4	6	6	9	6	6	6	3.9	9.4
24-Oct-07	6	6	7	6	A	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	0	0	0	1.5	6.8
25-Oct-07	0	0	0	0	A	1	1	1	1	C	C	C	C	A	1	1	1	2	3	3	3	2	1	1	1.2	3.1
26-Oct-07	0	1	1	4	A	6	5	11	7	7	2	2	2	1	1	1	1	1	2	3	4	3	3	2	3.1	10.9
27-Oct-07	4	3	3	3	A	6	8	5	3	2	1	1	1	1	1	1	1	1	2	2	1	1	1	1	2.2	7.8
28-Oct-07	1	1	1	1	A	2	6	2	1	3	7	3	9	2	1	1	8	5	8	4	4	3	5	4	3.6	8.8
29-Oct-07	3	3	2	2	A	6	4	6	6	6	4	1	1	1	1	1	1	1	1	1	1	1	1	1	2.4	6.4
30-Oct-07	1	1	0	0	A	1	1	3	3	1	1	1	1	1	1	1	1	1	2	3	3	3	1	1	1.3	3.1
31-Oct-07	1	1	1	1	A	3	5	3	4	1	4	2	1	1	1	1	1	1	1	1	4	3	1	1	1.8	4.7
Hourly Avg	2.9	2.8	2.8	2.7	N	4.1	4.7	6.2	6.2	6.3	6.2	4.8	3.9	3.2	2.5	2.5	3.3	3.5	3.8	4.2	4.6	3.8	3.2	2.9		
Hourly Max	9.8	10.5	9.8	8.8	0.0	18.6	11.5	23.6	23.5	22.4	42.0	40.6	27.6	21.7	17.9	20.8	20.0	13.8	12.2	15.8	15.7	16.2	10.7	9.6		

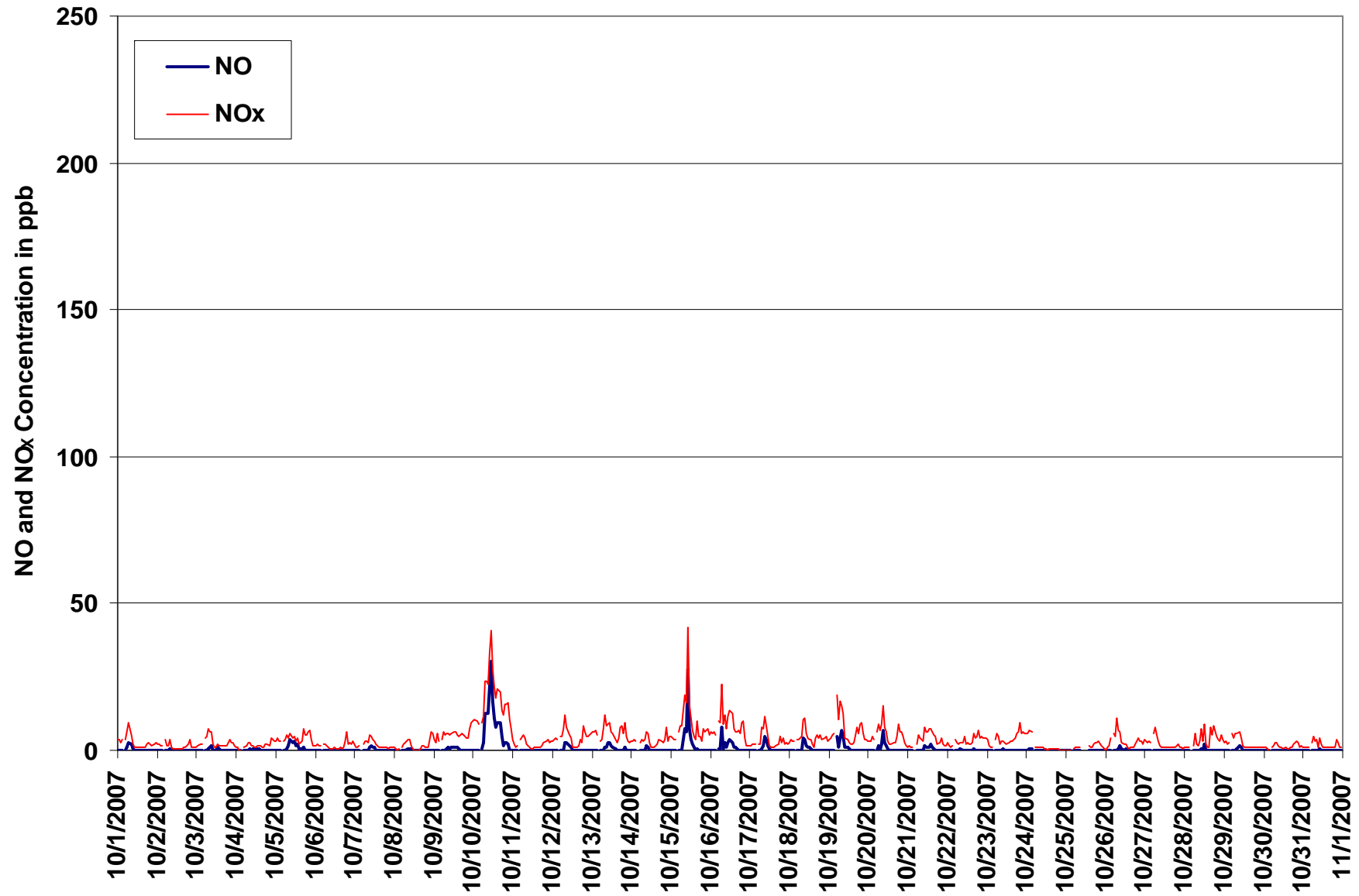


Figure 38. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

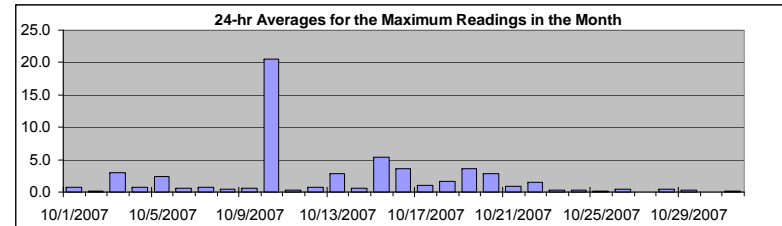
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	72.3	ppb	10-Oct	10:00 11:00
Maximum 24-hr Value:	20.4	ppb	10-Oct	



AIC Time:	32 hrs	Operational Time:	708 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	39.8	8.4	1.0	0.0	0.0	0.0	0.0	1.9 ppb	0.0 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	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-Oct-07	0	0	0	0	A	0	6	5	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	6.0
2-Oct-07	0	0	0	0	A	1	0	0	1	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0.2	1.0
3-Oct-07	0	0	0	0	A	0	0	3	11	2	1	1	1	37	12	0	1	0	0	0	0	0	0	0	3.0	36.7
4-Oct-07	0	1	0	0	A	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	4	0	0	0.7	4.0
5-Oct-07	0	0	0	0	A	0	1	2	4	6	5	4	3	6	2	1	1	12	6	0	0	1	0	0	2.4	12.1
6-Oct-07	0	0	0	0	A	0	0	0	0	1	0	0	1	0	0	6	0	0	4	1	0	0	0	0	0.6	6.0
7-Oct-07	0	0	0	0	A	0	0	0	1	2	2	2	1	1	7	0	0	0	0	0	0	0	0	0	0.7	7.0
8-Oct-07	0	0	0	0	A	0	0	0	2	2	1	0	0	2	2	0	0	1	0	0	0	0	0	0	0.4	2.0
9-Oct-07	0	0	0	0	A	0	0	0	1	1	1	2	2	2	1	2	1	0	0	0	0	0	1	0	0.6	2.3
10-Oct-07	0	0	0	0	A	6	11	37	42	52	72	60	40	15	56	19	14	10	9	17	6	4	0	0	20.4	72.3
11-Oct-07	0	0	0	0	A	0	2	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0.3	1.8
12-Oct-07	0	0	0	0	A	0	1	3	5	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0.7	4.8
13-Oct-07	0	0	0	0	A	0	0	0	2	2	4	5	3	1	1	0	4	1	0	0	44	0	0	0	2.9	43.7
14-Oct-07	0	0	0	0	A	0	0	1	1	8	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0.6	8.0
15-Oct-07	0	0	0	0	A	0	3	2	26	14	54	11	6	3	1	1	1	1	1	0	0	0	0	0	5.4	54.5
16-Oct-07	0	0	0	0	A	5	4	32	3	7	1	9	11	4	3	1	1	1	0	2	0	0	0	0	3.7	32.3
17-Oct-07	0	0	0	0	A	0	0	6	3	6	5	4	1	0	0	0	0	0	0	0	0	0	0	0	1.1	6.4
18-Oct-07	0	0	0	0	A	1	0	0	22	6	3	2	1	1	0	0	1	1	0	0	0	0	0	0	1.7	22.1
19-Oct-07	0	0	0	0	A	23	6	19	15	10	5	1	1	1	0	0	1	0	0	0	0	0	0	0	3.6	23.2
20-Oct-07	0	0	0	0	A	0	21	3	9	19	5	4	2	1	0	0	0	0	0	0	1	0	0	0	2.9	21.5
21-Oct-07	0	0	0	0	A	0	0	0	1	1	3	3	2	2	3	2	4	0	0	0	0	0	0	0	0.9	4.0
22-Oct-07	0	0	0	0	A	0	0	0	21	9	1	0	0	1	0	0	1	1	0	1	0	0	0	0	1.5	21.1
23-Oct-07	0	0	0	0	A	0	1	1	0	0	1	0	0	0	1	1	0	0	0	1	1	1	0	1	0.4	1.0
24-Oct-07	0	0	3	4	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	4.0
25-Oct-07	0	0	0	0	A	0	0	0	0	C	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0.1	0.2
26-Oct-07	0	0	0	0	A	0	0	1	2	3	1	1	1	3	0	0	0	0	0	0	0	0	0	0	0.5	2.9
27-Oct-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
28-Oct-07	0	0	0	0	A	0	0	0	0	0	1	1	8	1	0	0	1	0	0	0	0	0	0	0	0.5	7.6
29-Oct-07	0	0	0	0	A	0	0	0	1	3	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0.4	2.9
30-Oct-07	0	0	0	0	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.0	0.9
31-Oct-07	0	0	0	0	A	0	1	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.7
Hourly Avg	0.0	0.0	0.1	0.1	N	1.2	1.9	3.8	5.8	5.4	5.9	3.9	2.8	2.8	2.9	1.1	1.0	1.0	0.6	0.7	1.7	0.4	0.0	0.1		
Hourly Max	0.1	1.0	3.0	4.0	0.0	23.2	21.5	37.1	42.4	52.2	72.3	60.5	40.0	36.7	55.5	18.8	14.1	12.1	8.6	16.8	43.7	4.0	0.1	1.0		

Station: Beaverlodge
 Station Owner: PASZA

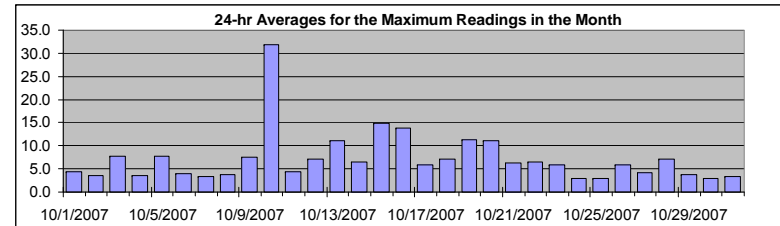
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	89.4	ppb	10-Oct	10:00 11:00
Maximum 24-hr Value:	31.9	ppb	10-Oct	



AIC Time:	32 hrs	Operational Time:	708 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	51.2	20.2	8.5	4.8	2.9	1.0	0.9	7.2 ppb	4.8 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-Oct-07	4	4	7	5	A	5	13	11	11	4	2	1	1	2	2	1	2	2	6	5	3	3	4	3	4.4	13.4
2-Oct-07	2	2	2	2	A	12	4	3	11	3	1	1	1	1	2	2	2	4	6	4	11	4	1	2	3.6	11.8
3-Oct-07	2	2	3	7	A	7	6	13	20	8	4	2	2	41	23	3	4	3	3	6	7	4	4	3	7.7	40.6
4-Oct-07	2	2	1	1	A	2	4	4	5	2	2	2	3	2	2	2	2	3	4	4	3	18	5	5	3.5	18.4
5-Oct-07	3	5	4	4	A	4	6	7	6	9	7	6	6	9	4	4	7	35	15	7	9	14	5	3	7.8	35.1
6-Oct-07	2	3	2	4	A	3	4	3	3	2	1	1	8	1	1	5	2	3	12	15	5	5	3	5	4.0	14.6
7-Oct-07	5	2	2	2	A	2	4	5	6	9	6	4	4	4	5	2	2	4	2	2	2	1	3	1	3.4	9.0
8-Oct-07	1	1	1	2	A	2	4	4	8	9	3	1	1	6	5	1	1	8	4	2	3	3	10	9	3.8	10.1
9-Oct-07	4	3	15	9	A	5	10	9	7	7	6	8	9	10	6	7	7	7	7	7	5	5	9	12	7.6	15.1
10-Oct-07	11	11	11	10	A	14	20	51	58	62	89	72	51	27	57	32	25	20	20	31	19	18	14	9	31.9	89.4
11-Oct-07	7	3	3	3	A	10	14	9	4	3	2	2	2	3	3	2	2	2	5	6	6	6	3	3	4.5	14.1
12-Oct-07	4	4	5	4	A	6	9	17	20	10	6	5	2	2	3	2	4	8	10	12	9	7	6	7	7.0	20.3
13-Oct-07	8	7	8	7	A	4	6	10	15	10	12	13	8	8	6	4	18	18	11	13	55	7	4	3	11.2	55.3
14-Oct-07	4	4	4	4	A	5	8	8	5	22	9	4	3	1	2	3	4	6	7	4	8	22	6	6	6.5	22.4
15-Oct-07	5	5	4	4	A	10	16	17	38	27	76	21	13	9	6	6	16	10	10	6	12	12	13	6	14.9	75.7
16-Oct-07	8	8	8	8	A	16	15	51	24	19	9	23	26	16	10	8	8	9	7	17	12	9	2	3	13.8	51.2
17-Oct-07	5	4	3	3	A	4	4	20	10	15	11	8	3	2	2	1	4	4	9	5	8	4	4	3	5.9	20.2
18-Oct-07	3	4	4	4	A	12	5	6	34	16	8	6	4	5	3	2	8	7	7	7	5	6	6	3	7.2	34.4
19-Oct-07	5	5	8	12	A	42	16	31	24	19	14	4	3	3	2	4	8	10	9	12	13	9	4	5	11.4	42.4
20-Oct-07	4	4	7	5	A	11	42	20	17	32	13	12	5	3	4	4	4	9	14	13	15	9	5	3	11.1	41.9
21-Oct-07	2	2	2	2	A	6	10	5	5	4	12	11	8	9	9	7	19	8	4	4	9	3	3	3	6.4	18.5
22-Oct-07	4	2	2	3	A	8	7	6	5	7	7	5	5	8	4	6	12	6	8	18	8	7	6	7	6.6	18.1
23-Oct-07	5	3	2	2	A	9	12	10	4	4	5	4	3	3	4	4	4	5	7	9	12	12	7	7	6.0	12.1
24-Oct-07	7	7	11	10	A	5	2	2	2	1	2	1	1	1	1	1	2	2	2	1	2	1	1	1	2.9	11.0
25-Oct-07	1	1	1	1	A	3	2	3	2	C	C	C	C	A	4	2	2	6	6	7	7	4	3	2	3.0	6.9
26-Oct-07	1	2	2	8	A	22	13	16	9	11	4	3	3	3	1	2	3	3	5	7	10	5	5	3	6.0	21.5
27-Oct-07	5	4	4	3	A	9	16	10	7	4	3	2	2	3	2	3	3	3	3	4	4	2	3	1	4.2	16.5
28-Oct-07	2	2	2	1	A	5	10	4	3	9	11	9	21	6	3	4	14	9	12	7	9	9	9	6	7.1	21.2
29-Oct-07	4	4	3	3	A	9	7	8	9	8	8	5	2	2	1	2	2	2	2	3	3	3	1	1	3.9	8.8
30-Oct-07	2	2	2	1	A	2	3	6	5	3	3	2	2	3	2	1	2	2	4	6	7	7	2	3	3.0	6.8
31-Oct-07	1	2	1	2	A	5	10	5	7	3	8	5	2	1	2	2	2	3	2	2	6	5	2	2	3.3	9.7
Hourly Avg	3.9	3.7	4.3	4.4	N	8.3	9.8	12.0	12.4	11.4	11.5	8.1	6.8	6.4	5.8	4.1	6.2	7.1	7.1	7.9	9.2	7.2	4.9	4.2		
Hourly Max	10.7	11.1	15.1	12.1	0.0	42.4	41.9	51.2	57.5	62.5	89.4	71.9	51.0	40.6	56.7	32.1	25.3	35.1	20.2	31.3	55.3	22.2	14.1	12.1		

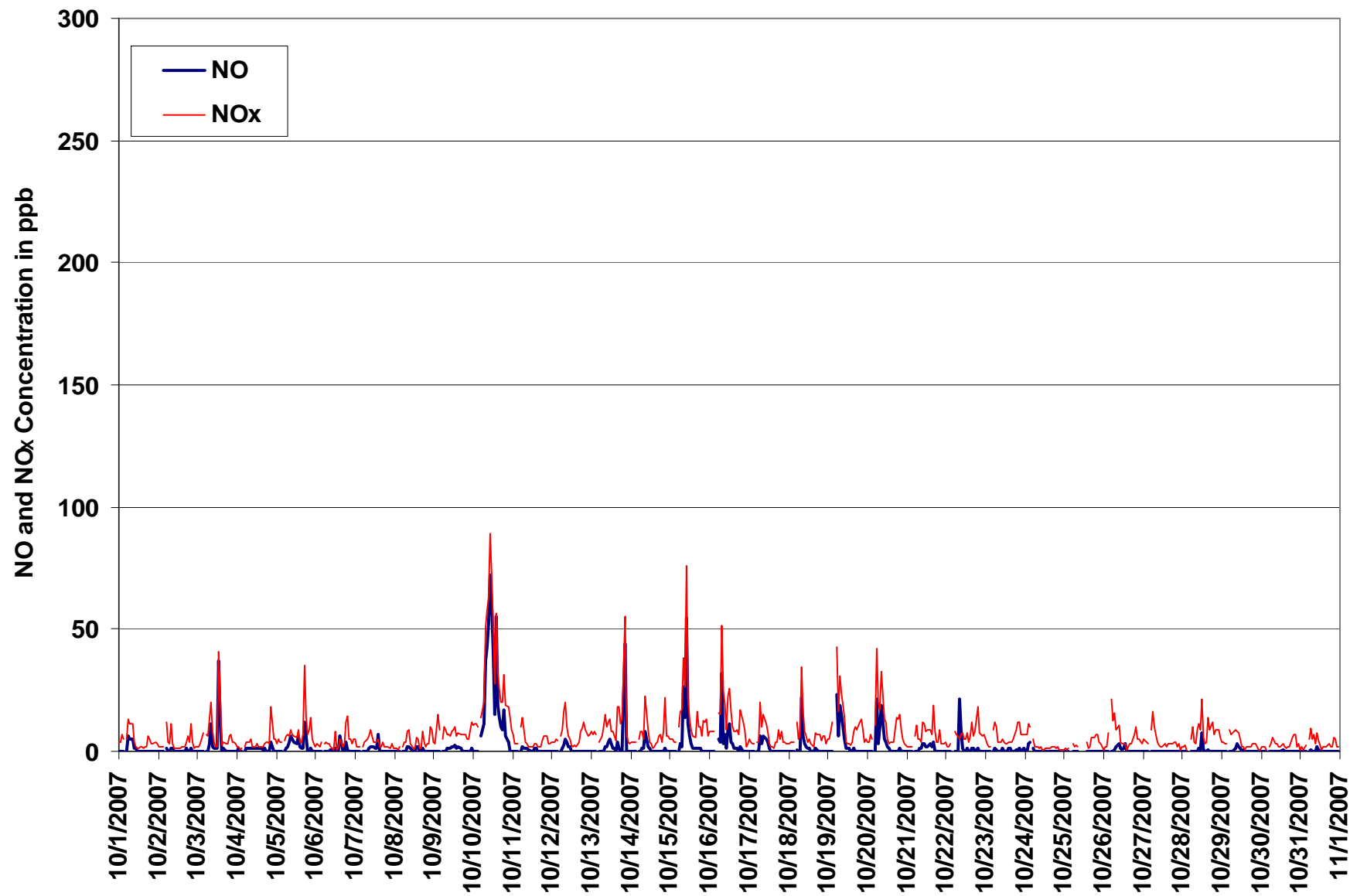


Figure 39. PASZA - Beaverlodge Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Beaverlodge Ozone Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

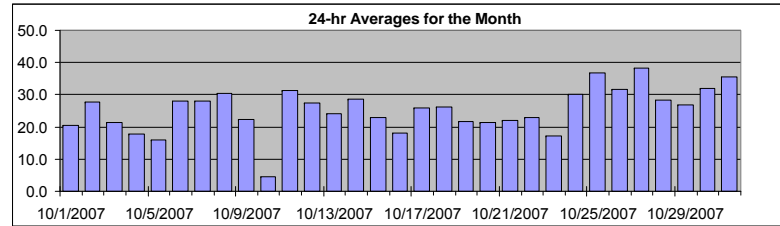
Ozone (O₃)

Monitoring Dates: October 1, 2007 to November 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:	51.2	ppb	25-Oct	16:00 17:00
Maximum 24-hr Average:	38.1	ppb	27-Oct	



AIC Time:	33 hrs	Operational Time:	706 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	45.4	37.7	31.5	26.1	20.4	6.6	3.0	25.3 ppb	26.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Oct-07	22	23	26	14	A	9	6	4	8	C	C	C	A	27	27	27	32	28	22	19	20	24	25	24	20.4	31.5	
2-Oct-07	22	23	23	23	A	20	27	29	28	32	33	33	33	33	32	32	31	30	28	26	23	26	25	24	27.6	33.3	
3-Oct-07	22	18	20	18	A	14	14	14	14	14	25	26	27	29	28	29	27	25	25	22	18	21	20	22	21.5	29.1	
4-Oct-07	13	12	16	19	A	20	19	19	19	21	21	21	22	22	21	21	20	19	17	15	15	12	12	11	17.7	21.8	
5-Oct-07	11	11	11	11	A	10	8	9	11	12	11	11	14	17	24	25	24	21	23	19	18	18	20	25	15.8	25.4	
6-Oct-07	26	25	25	25	A	22	22	24	26	29	29	30	31	34	35	36	35	33	29	25	29	24	25	26	28.1	35.6	
7-Oct-07	29	30	31	30	A	26	23	21	21	18	20	22	23	24	22	33	36	39	37	36	34	33	30	27	28.1	38.7	
8-Oct-07	29	29	30	29	A	30	27	26	26	28	31	34	36	36	36	36	35	32	31	32	32	30	22	20	30.3	36.5	
9-Oct-07	22	21	19	24	A	24	19	23	24	24	25	25	25	25	26	27	26	25	23	23	22	21	13	7	22.3	27.3	
10-Oct-07	6	5	4	5	A	3	4	1	2	6	3	2	3	4	6	5	3	3	2	3	1	1	13	19	4.6	19.1	
11-Oct-07	26	29	30	30	A	26	22	24	29	31	36	37	38	38	37	37	36	35	34	32	31	27	28	26	31.2	37.7	
12-Oct-07	25	24	24	25	A	20	20	18	14	19	21	25	37	38	38	39	38	35	36	26	29	29	27	25	27.5	39.3	
13-Oct-07	23	21	20	21	A	25	23	18	14	15	13	19	24	26	30	33	32	27	24	29	28	27	30	29	24.0	32.6	
14-Oct-07	28	29	28	27	A	25	25	29	27	25	29	32	33	35	35	34	31	29	30	30	30	21	25	22	28.7	34.9	
15-Oct-07	19	21	22	24	A	23	15	15	9	12	6	12	18	28	35	37	29	31	30	34	28	29	22	27	22.9	36.6	
16-Oct-07	24	22	18	19	A	9	8	6	14	10	20	13	15	16	22	23	21	18	23	14	11	24	33	29	17.9	33.0	
17-Oct-07	28	26	22	23	A	20	20	13	11	10	14	21	29	34	37	37	36	34	29	32	32	31	30	26	25.8	37.4	
18-Oct-07	26	23	21	22	A	24	24	23	15	17	23	27	30	31	34	36	27	25	30	28	30	30	28	30	26.3	36.3	
19-Oct-07	27	25	21	12	A	5	6	4	7	15	24	26	28	31	34	33	30	24	25	21	21	24	27	27	21.7	33.8	
20-Oct-07	27	27	22	22	A	16	14	14	14	12	16	15	21	26	27	28	29	26	22	24	24	22	22	24	21.5	29.3	
21-Oct-07	24	21	23	24	A	20	15	16	17	18	17	17	18	17	17	19	21	24	30	28	26	30	32	34	22.1	34.0	
22-Oct-07	29	31	30	27	A	29	30	30	29	28	23	25	25	27	26	23	17	17	16	14	14	12	14	14	23.0	30.5	
23-Oct-07	13	23	26	31	A	27	21	23	28	23	23	21	20	19	17	16	15	12	9	9	6	5	5	4	17.2	31.4	
24-Oct-07	5	5	5	3	A	24	37	39	36	37	35	34	36	38	37	37	36	36	36	35	36	35	35	34	30.1	39.1	
25-Oct-07	34	34	34	33	A	32	31	31	32	33	35	36	36	C	C	A	51	48	42	40	36	37	41	40	36.7	51.2	
26-Oct-07	39	37	35	29	A	27	28	16	21	23	32	33	33	37	38	38	38	38	35	32	31	31	30	31	31.7	39.0	
27-Oct-07	30	29	31	32	A	29	24	30	37	40	43	46	48	47	46	45	45	45	42	40	37	37	38	37	38.1	47.5	
28-Oct-07	36	35	33	32	A	31	25	30	32	30	21	27	17	29	36	35	26	25	23	25	28	28	24	20	28.2	36.3	
29-Oct-07	25	25	29	26	A	21	17	13	11	8	13	31	37	38	38	36	36	35	32	31	30	29	28	28	26.9	37.9	
30-Oct-07	28	28	30	31	A	31	30	28	28	30	31	35	37	36	36	36	35	33	30	28	29	31	36	36	31.8	36.5	
31-Oct-07	37	36	35	34	A	33	30	32	33	37	31	39	43	46	44	41	39	38	37	35	29	29	32	31	35.6	45.7	
Hourly Avg	24.4	24.1	24.0	23.5	N	21.7	20.5	20.0	20.5	21.9	23.5	25.9	27.9	29.5	30.8	31.1	30.3	28.7	27.5	26.0	25.1	25.0	25.5	25.2			
Hourly Max	39.0	36.6	34.9	34.5	0.0	32.7	37.1	39.1	37.1	40.4	43.0	46.1	47.5	47.4	45.8	44.8	51.2	47.6	42.4	40.2	36.8	36.8	41.1	40.1			

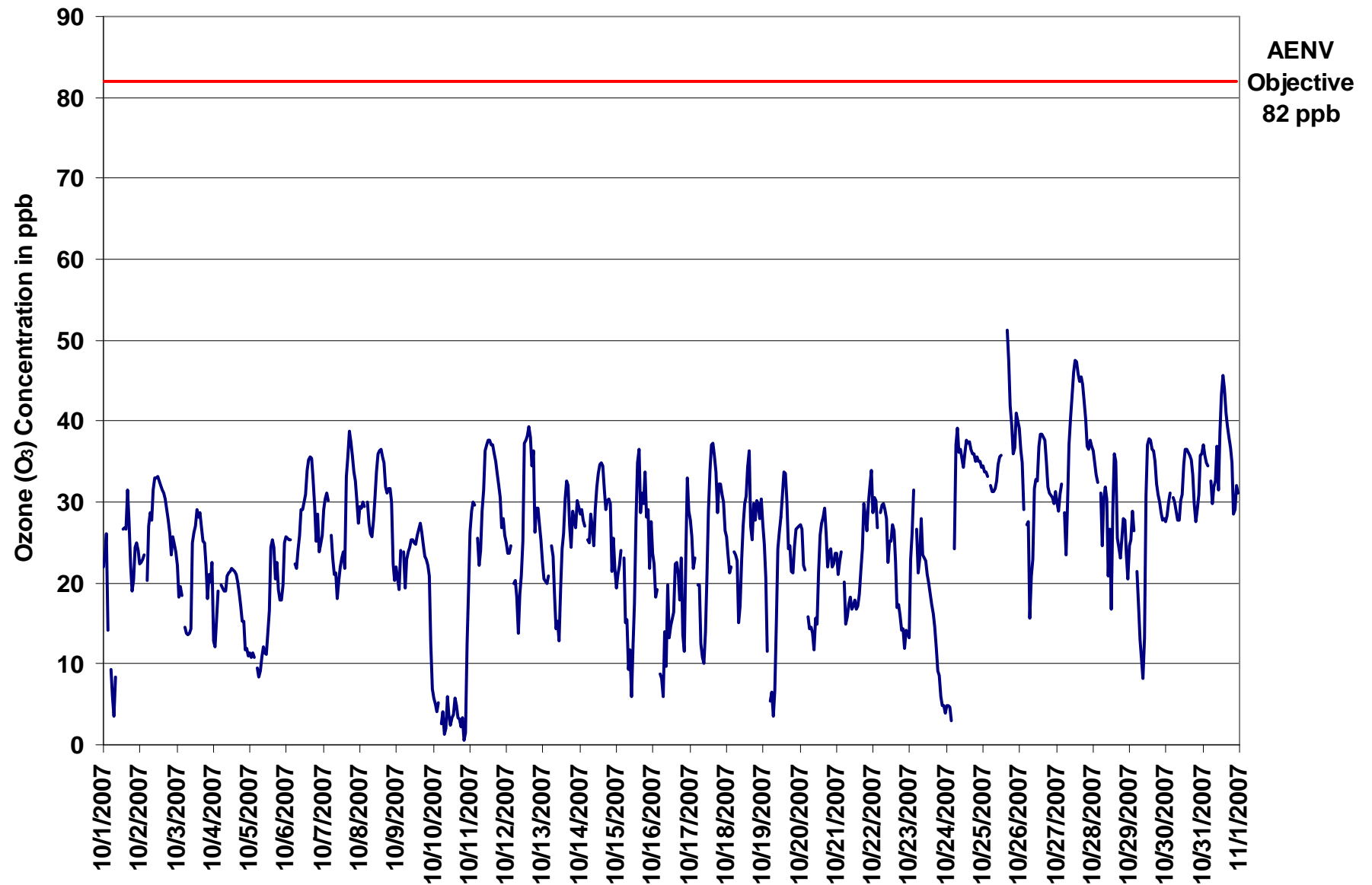


Figure 40. PASZA - Beaverlodge Ozone 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

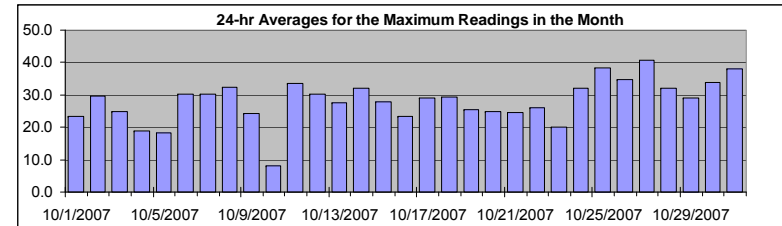
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	53.2	ppb	25-Oct	16:00 17:00
Maximum 24-hr Value:	40.7	ppb	27-Oct	



AIC Time:	33 hrs	Operational Time:	706 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	46.8	39.4	34.4	29.2	23.0	11.0	5.1	28.2 ppb	29.2 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-Oct-07	24	26	31	24	A	12	9	5	12	C	C	C	A	28	29	28	33	30	27	21	23	26	27	26	23.3	33.4
2-Oct-07	25	25	26	26	A	26	29	31	32	34	34	34	34	33	33	32	32	32	31	28	25	27	26	26	29.6	34.3
3-Oct-07	24	23	23	22	A	16	20	19	17	19	28	28	29	32	30	30	31	28	27	27	27	24	24	26	24.9	32.2
4-Oct-07	18	14	18	20	A	20	20	20	21	21	21	22	22	22	22	22	21	20	18	16	16	14	14	12	19.0	22.5
5-Oct-07	12	14	12	12	A	11	10	11	11	14	14	13	15	22	28	29	29	24	26	20	20	23	22	27	18.3	28.7
6-Oct-07	27	26	27	27	A	25	24	26	29	31	30	31	33	35	36	37	37	35	33	31	31	31	27	27	30.2	37.4
7-Oct-07	33	35	32	31	A	27	25	22	23	19	22	24	24	26	26	38	38	41	39	38	35	34	32	30	30.2	41.3
8-Oct-07	31	30	31	31	A	32	30	29	29	31	33	36	37	37	37	37	36	35	32	32	32	33	30	25	32.4	37.4
9-Oct-07	23	23	22	27	A	27	22	24	25	26	26	26	27	26	27	29	29	26	25	24	23	22	16	11	24.2	28.9
10-Oct-07	7	6	5	8	A	7	9	4	6	14	11	9	8	5	8	7	4	5	4	11	1	5	17	26	8.2	26.4
11-Oct-07	32	32	31	31	A	29	26	28	31	36	37	38	39	39	38	38	37	37	35	34	33	30	30	28	33.5	38.9
12-Oct-07	27	25	25	25	A	21	21	21	18	21	24	38	38	39	40	40	40	38	39	31	32	31	30	28	30.2	40.4
13-Oct-07	24	22	22	23	A	27	26	22	19	17	17	25	26	29	36	35	36	33	28	35	36	32	33	32	27.7	36.4
14-Oct-07	29	30	29	29	A	32	33	33	33	32	34	34	34	36	36	36	33	32	33	31	33	29	31	25	32.0	36.4
15-Oct-07	25	23	24	27	A	26	23	19	22	19	18	17	24	39	39	39	35	33	35	35	32	32	26	31	28.0	39.5
16-Oct-07	30	25	25	26	A	23	14	13	18	19	23	22	19	20	24	26	24	22	25	23	15	36	35	31	23.4	35.9
17-Oct-07	30	29	24	25	A	25	22	20	14	12	18	26	33	37	38	39	37	35	35	34	36	35	34	31	29.2	39.0
18-Oct-07	29	25	22	24	A	26	25	25	20	21	27	30	32	33	38	38	38	30	39	30	31	32	32	32	29.4	39.0
19-Oct-07	29	27	27	17	A	13	16	11	16	19	26	27	31	33	36	37	35	27	26	24	24	26	28	28	25.4	37.0
20-Oct-07	28	28	26	23	A	20	20	19	20	16	18	20	26	28	30	31	31	30	27	28	28	26	26	27	24.9	31.3
21-Oct-07	27	24	24	26	A	23	18	18	19	20	19	20	19	19	20	20	25	30	32	31	28	32	34	35	24.4	35.4
22-Oct-07	32	33	32	31	A	33	33	32	31	30	27	27	29	30	28	27	23	20	18	19	17	15	15	15	26.0	33.5
23-Oct-07	16	28	28	36	A	36	28	29	30	27	25	23	21	20	19	17	16	14	11	10	9	8	7	5	20.1	36.5
24-Oct-07	7	7	7	8	A	35	42	41	38	38	37	36	38	39	38	38	38	37	37	36	36	36	35	35	32.1	42.0
25-Oct-07	35	35	35	34	A	33	32	32	32	34	36	37	37	C	C	A	53	51	46	42	38	42	42	41	38.4	53.2
26-Oct-07	40	39	37	32	A	32	32	25	23	33	35	34	34	39	39	39	39	39	37	36	35	32	33	34	34.8	40.1
27-Oct-07	34	31	33	33	A	32	31	38	40	43	47	48	49	49	47	46	47	46	44	43	39	39	39	39	40.7	48.7
28-Oct-07	38	37	35	35	A	33	31	33	34	34	30	31	28	34	38	37	33	29	27	29	30	29	30	25	32.1	37.9
29-Oct-07	26	28	30	29	A	27	20	16	14	10	18	37	39	39	39	38	38	37	35	33	31	30	29	28	29.2	38.9
30-Oct-07	29	30	32	32	A	32	31	30	30	33	34	36	37	38	37	37	37	36	33	29	34	37	37	39	33.9	38.9
31-Oct-07	38	37	36	36	A	34	33	34	35	39	37	43	47	47	46	43	41	39	38	36	34	34	34	32	37.9	46.8
Hourly Avg	26.8	26.3	26.2	26.1	N	25.6	24.3	23.5	24.0	25.4	26.9	29.1	30.3	31.7	32.8	33.1	33.1	31.3	30.4	29.0	27.9	28.4	28.2	27.7		
Hourly Max	40.1	39.4	37.3	35.7	0.0	36.5	42.0	41.0	40.3	42.7	46.7	47.7	48.7	48.7	47.2	46.2	53.2	50.7	45.8	42.5	39.4	42.0	42.2	41.1		

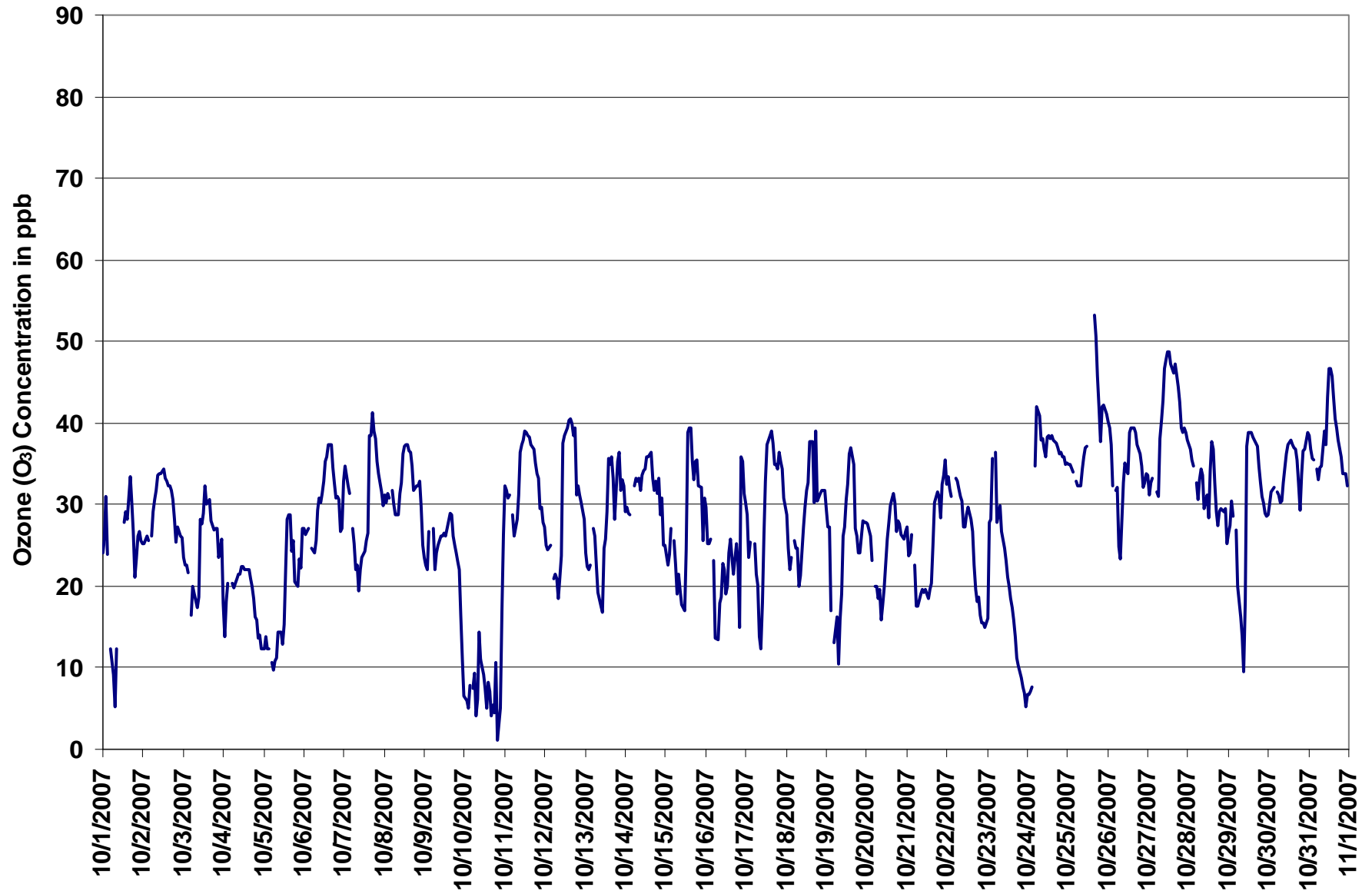
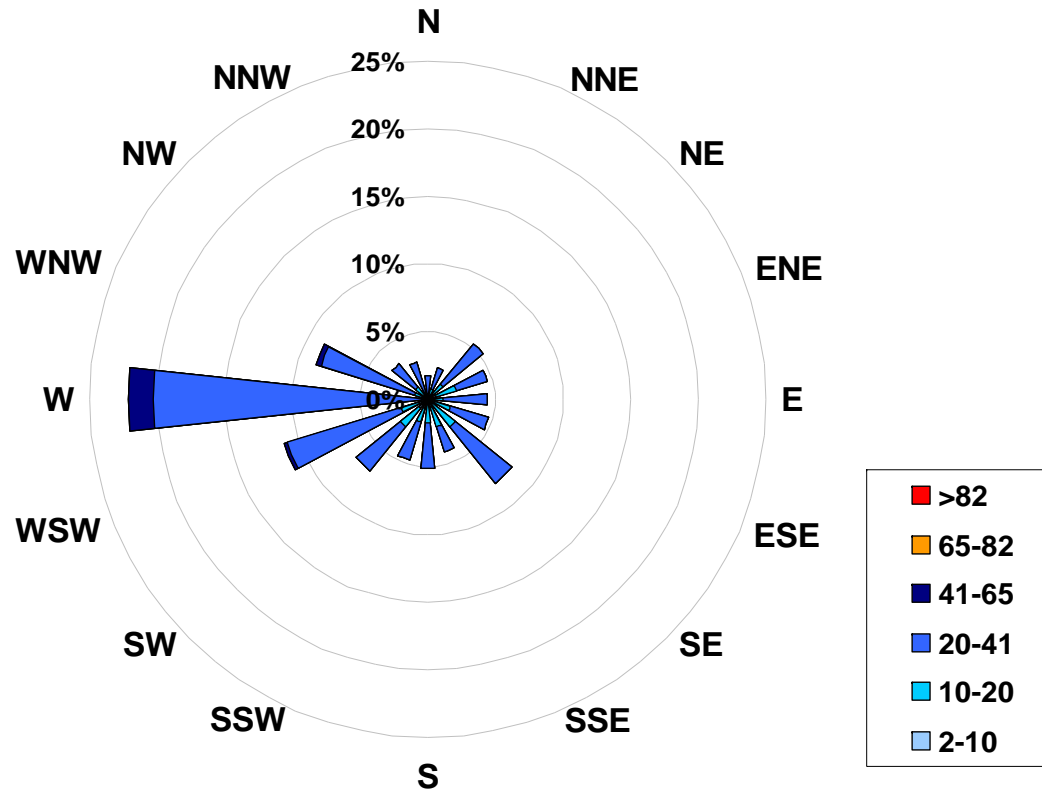


Figure 41. PASZA - Beaverlodge Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	<	10	50
10	to	20	120
20	to	41	519
41	to	65	17
65	to	82	0
	>	82	0
Total Non-Zero Values			706

PASZA - Beaverlodge Ozone Eight Hour Average Summary

Station: Beaverlodge
 Station Owner: PASZA

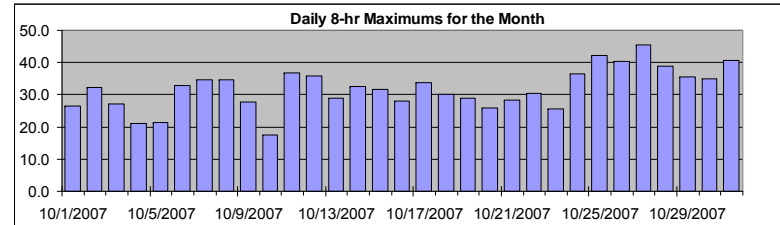
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: October 1, 2007 to November 1, 2007

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

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	45.6	ppb	27-Oct	17:00	18:00		



Percentile	99	95	75	50	25	5	1
	42.1	36.4	30.5	25.6	20.6	10.5	3.5

Status Flag Characters

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

Day	Mountain Standard Time																							Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Oct-07	27	26	25	23	23	20	18	15	13	N	N	N	N	N	N	N	N	N	N	N	26	25	25	25	24	26.6
2-Oct-07	23	22	23	23	24	23	23	24	25	26	27	29	29	31	31	32	32	32	31	31	31	29	29	28	27	32.2
3-Oct-07	26	24	23	22	22	20	19	17	16	15	16	17	19	20	22	24	26	27	27	26	25	24	23	23	23	27.0
4-Oct-07	21	19	18	18	18	17	17	17	18	19	20	20	20	21	21	21	21	21	20	20	19	18	16	15	15	21.2
5-Oct-07	14	13	12	12	11	11	10	10	10	10	10	10	11	12	14	16	17	18	20	21	21	22	21	21	21	21.5
6-Oct-07	21	22	22	23	23	24	24	24	24	25	25	26	27	28	30	31	32	33	33	32	32	31	29	28	28	32.9
7-Oct-07	27	27	27	28	28	28	28	27	26	24	23	22	22	22	21	23	25	27	29	31	33	34	35	34	34	34.6
8-Oct-07	33	32	31	30	30	29	29	29	28	28	28	29	30	30	32	33	34	34	35	34	34	33	31	29	29	34.5
9-Oct-07	28	26	25	24	23	22	21	22	22	22	23	24	24	24	25	25	26	26	25	25	25	25	24	23	20	27.6
10-Oct-07	17	15	13	10	9	6	5	4	3	4	4	3	3	3	4	4	4	4	4	4	3	3	4	6	17.4	
11-Oct-07	9	12	15	19	21	25	26	27	27	27	28	29	30	32	34	35	36	37	36	36	35	34	32	31	31	36.7
12-Oct-07	30	28	27	26	25	24	23	22	21	20	19	20	22	24	26	29	32	34	36	36	35	34	32	31	31	35.9
13-Oct-07	29	27	25	24	24	23	22	21	20	20	19	18	19	19	20	22	24	26	27	28	29	29	29	28	28	28.8
14-Oct-07	28	28	29	28	28	28	27	27	27	26	27	27	28	29	30	31	32	32	33	32	32	30	29	27	27	32.5
15-Oct-07	26	25	24	23	22	22	21	20	19	17	15	13	14	14	17	19	22	24	27	30	31	31	30	29	29	31.5
16-Oct-07	28	27	26	24	23	20	18	15	14	12	12	11	12	13	15	17	17	19	19	19	19	19	21	22	22	28.1
17-Oct-07	22	23	23	24	26	26	24	21	19	17	16	15	17	19	21	24	27	30	32	33	34	33	33	31	31	33.9
18-Oct-07	30	29	28	26	26	25	24	23	22	21	21	22	23	24	25	27	28	29	30	30	30	30	29	29	29	30.2
19-Oct-07	29	29	27	25	25	21	18	14	11	10	10	13	15	18	21	25	28	29	29	29	28	27	26	25	25	29.0
20-Oct-07	25	25	25	25	25	24	22	20	18	16	15	14	15	17	18	20	22	24	24	26	26	25	25	24	24	25.9
21-Oct-07	23	23	23	23	23	23	21	20	19	19	18	17	17	17	17	17	18	19	20	22	23	24	26	28	28	28.2
22-Oct-07	29	30	30	30	30	30	30	29	29	29	28	28	27	27	27	26	24	23	22	21	19	18	16	15	15	30.3
23-Oct-07	14	15	16	18	19	21	22	23	26	26	25	24	23	22	22	21	19	18	16	15	13	11	10	8	8	25.7
24-Oct-07	7	6	5	5	4	7	12	17	21	26	30	35	35	37	37	36	36	36	36	36	36	36	36	35	35	36.5
25-Oct-07	35	35	35	34	34	34	33	33	32	32	32	33	33	33	N	N	N	N	N	N	N	N	N	42	42	42.0
26-Oct-07	40	39	38	37	37	35	34	30	27	25	25	26	26	28	29	32	34	36	36	36	36	35	34	33	33	40.3
27-Oct-07	32	31	31	31	31	30	29	29	30	32	34	36	37	39	42	44	45	46	46	45	43	42	41	40	40	45.6
28-Oct-07	39	38	37	36	35	35	33	32	31	31	29	28	27	26	28	28	28	27	27	27	28	28	27	25	25	38.9
29-Oct-07	25	25	25	26	25	24	24	22	20	18	16	16	19	21	24	26	30	33	35	35	35	33	32	31	31	35.5
30-Oct-07	30	29	29	29	29	29	29	29	29	30	30	30	31	32	33	34	35	35	35	34	33	32	32	32	32	34.9
31-Oct-07	32	33	33	34	35	35	34	34	33	33	33	33	33	35	36	38	39	40	40	41	40	39	36	35	34	40.8

Hourly Max 40.3 38.9 38.0 36.7 36.8 35.4 34.4 33.8 33.2 33.3 33.6 35.5 37.0 39.4 42.1 44.0 45.1 45.6 45.5 44.8 43.4 42.1 42.0 41.8

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

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

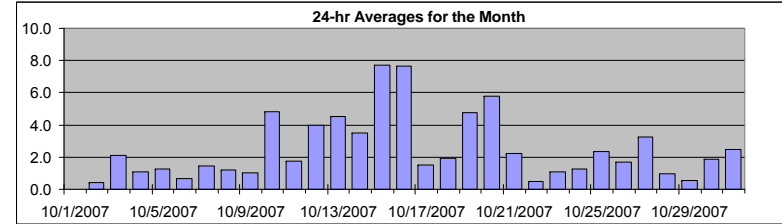
Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2007 to November 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:	15.6	µg/m ³	15-Oct	19:00 20:00
Maximum 24-hr Value:	7.7	µg/m ³	15-Oct	

AIC Time:	0 hrs	Operational Time:	728 hrs							
Calibration Time:	7 hrs	AMD Operational Uptime:	98.8%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	10.8	7.4	3.7	1.7	0.8	0.0	0.0	2.5	2 µg/m ³	1.9 µg/m ³



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Oct-07	1	1	0	1	0	0	0	1	2	C	C	C	C	C	C	C	0	D	0	D	D	D	0	0	N	2.2
2-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	2	0.4	1.9
3-Oct-07	1	2	2	2	2	2	3	3	4	4	2	2	2	3	2	0	2	2	2	2	2	2	2	1	2.1	3.9
4-Oct-07	0	0	2	1	1	1	1	2	2	1	1	1	1	0	1	0	1	2	2	2	1	1	2	1	1.1	2.4
5-Oct-07	1	2	2	1	2	1	1	0	1	4	2	1	2	1	0	0	0	2	0	1	1	1	1	0	1.2	4.1
6-Oct-07	0	1	1	1	2	0	2	1	1	1	1	0	0	0	0	2	1	0	1	1	0	0	0	0	0.7	1.8
7-Oct-07	1	1	0	0	0	1	2	1	1	2	2	2	2	0	9	1	0	0	5	0	1	1	2	1	1.5	9.2
8-Oct-07	2	3	1	2	2	1	1	2	2	1	0	0	0	0	0	1	1	1	2	2	1	1	2	1	1.2	2.6
9-Oct-07	1	1	1	0	0	0	0	1	1	0	2	1	2	1	1	1	2	1	1	1	2	2	1	2	1.0	2.3
10-Oct-07	2	2	2	2	3	2	3	4	6	5	6	10	7	7	6	7	6	6	5	5	6	5	4	3	4.8	9.8
11-Oct-07	3	2	2	2	2	2	2	2	2	1	1	1	0	1	0	1	2	1	1	2	2	3	3	3	1.7	3.4
12-Oct-07	2	2	2	2	2	2	2	3	4	4	7	6	0	0	2	5	7	5	7	8	7	5	5	5	4.0	8.0
13-Oct-07	4	4	3	3	2	3	3	5	4	6	6	6	5	5	7	5	7	9	5	4	5	3	2	4.5	8.8	
14-Oct-07	3	2	2	1	2	2	2	3	3	1	5	4	2	2	3	3	4	5	4	4	6	7	5	7	3.5	7.4
15-Oct-07	8	7	7	5	6	6	6	7	8	7	11	10	8	6	3	3	5	4	8	16	14	10	11	10	7.7	15.6
16-Oct-07	12	12	11	9	7	10	9	11	10	9	4	8	7	8	6	7	6	6	7	12	8	4	0	0	7.6	12.3
17-Oct-07	1	1	1	0	2	1	1	1	2	2	2	1	1	0	0	1	0	0	2	2	2	4	5	1.5	4.9	
18-Oct-07	3	3	2	2	2	1	2	2	1	2	1	1	1	2	0	1	5	2	2	2	1	1	2	2	1.9	5.4
19-Oct-07	3	4	5	4	5	5	4	5	4	3	3	4	3	4	4	4	7	6	5	8	10	5	4	5	4.8	10.4
20-Oct-07	4	5	6	7	8	7	7	7	7	7	6	7	6	5	4	6	4	5	6	5	6	6	5	4	5.8	8.0
21-Oct-07	5	5	5	4	5	4	4	3	2	1	1	1	2	3	3	1	0	0	0	0	0	1	1	1	2.2	5.3
22-Oct-07	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	2	1	1	0	0	0	0	2	1	0.5	1.9
23-Oct-07	2	1	0	0	0	1	0	0	0	0	0	2	2	1	2	2	4	3	1	0	1	0	0	0	1.1	3.7
24-Oct-07	0	0	1	1	6	4	D	D	0	0	0	0	D	0	1	1	2	1	1	1	1	3	2	1.3	5.7	
25-Oct-07	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	0	2	2	5	6	5	4	3	3	2.3	5.9
26-Oct-07	3	4	2	2	1	2	0	1	0	0	0	0	1	1	1	4	3	2	3	2	2	2	1	1.7	4.3	
27-Oct-07	3	2	2	3	2	2	3	3	7	7	6	6	7	5	4	2	2	2	3	3	1	1	0	3.2	7.5	
28-Oct-07	1	0	0	1	2	1	2	2	1	1	2	1	2	0	0	0	1	0	1	2	1	1	1	0	1.0	2.0
29-Oct-07	0	0	0	0	0	0	0	0	0	1	1	D	D	0	0	0	0	3	2	1	1	1	1	1	0.5	2.5
30-Oct-07	2	2	1	2	2	2	3	2	3	2	1	0	0	0	0	1	1	2	3	1	2	4	5	5	1.8	5.2
31-Oct-07	6	4	3	2	1	1	0	1	0	1	2	0	2	2	1	1	3	4	5	4	4	3	5	4	2.4	5.5
Hourly Avg	2.6	2.5	2.2	2.0	2.3	2.2	2.1	2.4	2.7	2.6	2.5	2.6	2.3	2.0	2.1	2.2	2.5	2.5	3.0	3.3	3.2	2.8	2.6	2.4		
Hourly Max	11.8	11.8	10.8	8.6	8.0	9.6	9.3	10.8	10.1	8.7	11.3	9.8	7.9	8.1	9.2	7.4	7.2	7.0	8.8	15.6	13.8	10.4	11.4	10.5		

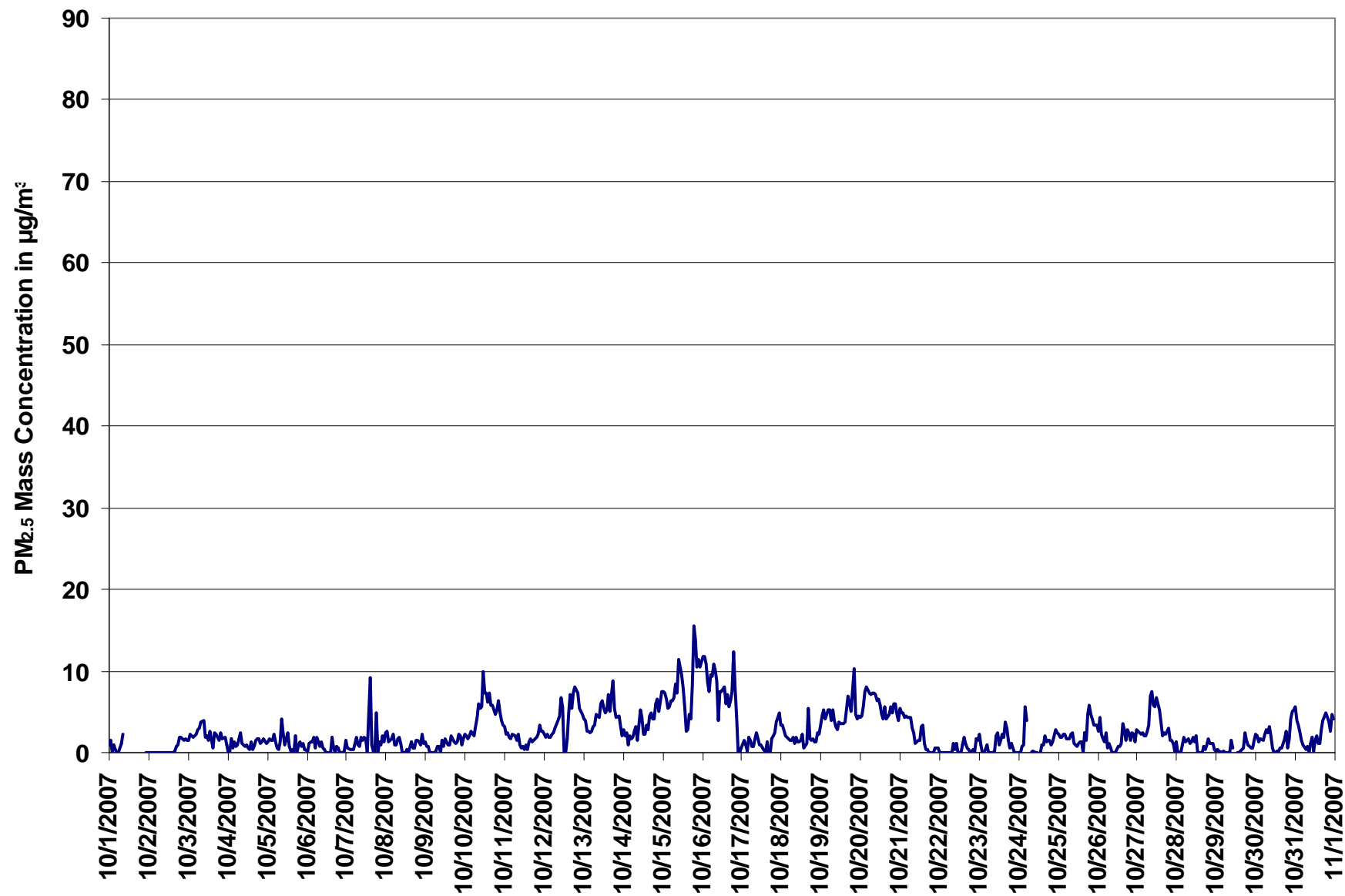


Figure 42. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

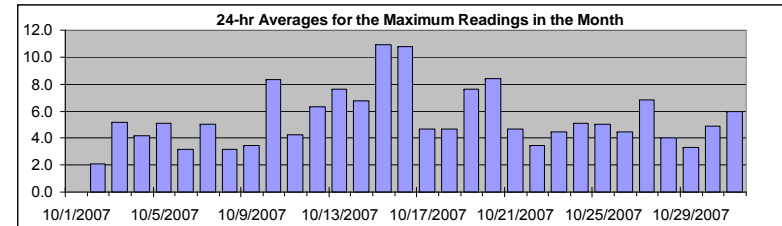
Particulate Matter (PM_{2.5})

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	23.9	µg/m ³	16-Oct	19:00 20:00
Maximum 24-hr Value:	11.0	µg/m ³	15-Oct	

AIC Time:	0 hrs	Operational Time:	737 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	14.7	11.0	6.6	4.8	3.5	1.6	0.0	5.4	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

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-Oct-07	2	3	2	2	3	3	1	3	6	C	C	C	C	C	C	0	0	0	0	0	0	0	0	0	N	6.3
2-Oct-07	0	0	0	1	0	1	3	2	1	1	4	3	0	2	1	1	4	3	4	5	4	4	4	3	2.1	4.8
3-Oct-07	3	4	5	3	5	5	5	6	6	6	5	5	7	10	5	3	5	6	5	6	5	5	4	5	5.2	9.9
4-Oct-07	3	3	3	3	3	3	2	4	4	5	2	4	4	3	3	2	4	7	5	6	6	6	6	6	4.2	6.5
5-Oct-07	6	6	6	6	7	5	5	4	5	11	8	3	10	3	4	4	3	7	3	3	3	4	5	3	5.1	11.2
6-Oct-07	2	3	4	4	6	3	4	3	4	4	3	3	4	2	2	5	2	2	3	4	2	1	2	3	3.2	5.6
7-Oct-07	4	3	2	4	3	4	5	3	3	5	5	5	5	7	18	7	2	5	9	4	5	5	5	3	5.0	17.5
8-Oct-07	4	5	4	4	4	3	3	3	4	3	3	2	1	3	2	4	2	2	5	3	4	2	4	3	3.2	4.6
9-Oct-07	2	3	2	1	1	1	2	3	4	3	3	4	4	3	5	4	6	5	4	5	5	4	4	5	3.5	6.1
10-Oct-07	5	6	5	5	6	6	6	10	11	9	9	18	11	11	8	9	8	11	8	7	9	7	6	7	8.3	17.7
11-Oct-07	5	5	5	5	4	4	5	4	5	3	3	4	4	3	3	5	5	3	4	4	4	5	5	5	4.2	5.2
12-Oct-07	4	4	4	4	4	4	4	6	7	6	9	9	1	2	6	7	9	8	11	10	10	8	8	8	6.4	10.6
13-Oct-07	7	7	5	6	5	5	5	6	7	7	10	10	10	7	8	9	7	11	12	9	8	10	7	5	7.6	11.7
14-Oct-07	7	6	5	4	5	5	5	5	7	8	11	10	5	4	6	7	7	6	6	7	8	10	8	12	6.8	11.8
15-Oct-07	12	10	11	9	9	8	8	10	12	12	16	12	10	9	8	6	8	7	12	18	17	12	14	14	11.0	17.9
16-Oct-07	15	15	14	10	11	12	11	13	15	15	7	11	10	10	7	9	8	9	9	24	9	12	1	2	10.8	23.9
17-Oct-07	2	5	5	3	6	5	5	5	5	5	4	4	4	4	3	5	2	3	6	4	6	6	7	7	4.7	7.3
18-Oct-07	6	6	4	3	4	4	3	4	4	5	4	4	5	5	2	4	12	6	6	4	4	5	5	4	4.7	11.8
19-Oct-07	6	7	8	9	8	9	7	8	6	5	7	7	6	6	5	5	8	9	8	11	14	8	7	7	7.6	13.9
20-Oct-07	6	7	9	10	10	9	9	11	11	12	8	10	9	8	7	8	6	7	8	7	10	9	6	5	8.4	12.1
21-Oct-07	7	6	8	7	7	6	5	6	4	4	4	3	3	8	6	3	4	3	1	5	3	3	3	3	4.6	8.0
22-Oct-07	3	3	4	0	3	2	2	3	6	4	5	3	1	5	6	4	4	4	3	3	4	4	4	5	3.4	6.0
23-Oct-07	6	4	3	3	4	4	4	1	4	4	5	5	3	5	5	4	8	7	4	6	6	6	4	1	4.4	8.2
24-Oct-07	2	4	4	6	15	10	0	3	4	5	3	4	0	6	5	6	7	7	7	5	4	5	6	5	5.1	15.1
25-Oct-07	5	4	5	5	5	4	4	4	4	12	2	3	4	4	4	3	6	4	7	9	8	6	5	5	5.0	12.1
26-Oct-07	4	9	5	4	4	5	3	3	5	3	2	2	3	4	4	9	5	4	6	5	4	4	5	4	4.4	9.0
27-Oct-07	6	5	6	6	5	6	6	7	10	10	8	9	9	9	9	6	6	7	6	6	5	5	8	3	6.8	10.1
28-Oct-07	4	3	3	6	6	5	5	5	4	4	7	5	6	2	1	2	3	3	4	4	4	5	4	4	4.0	6.9
29-Oct-07	2	3	3	2	3	2	1	2	3	6	3	2	0	3	3	5	5	7	5	3	4	4	4	4	3.3	6.5
30-Oct-07	5	5	4	5	4	5	5	5	5	5	4	3	5	3	4	3	5	5	7	4	5	6	9	8	4.9	8.7
31-Oct-07	7	7	7	5	5	3	2	5	4	4	4	4	8	5	4	9	8	8	8	8	7	6	8	7	6.0	8.8
Hourly Avg	4.9	5.2	5.0	4.7	5.3	4.8	4.4	5.0	5.8	6.2	5.6	5.7	5.1	5.2	5.1	5.4	5.5	5.7	5.9	6.4	6.1	5.7	5.3	5.0		
Hourly Max	14.5	14.6	14.1	10.5	15.1	12.3	11.0	13.0	14.7	14.6	15.7	17.7	11.0	11.0	17.5	9.3	11.8	11.4	11.7	23.9	16.9	12.3	14.0	14.1		

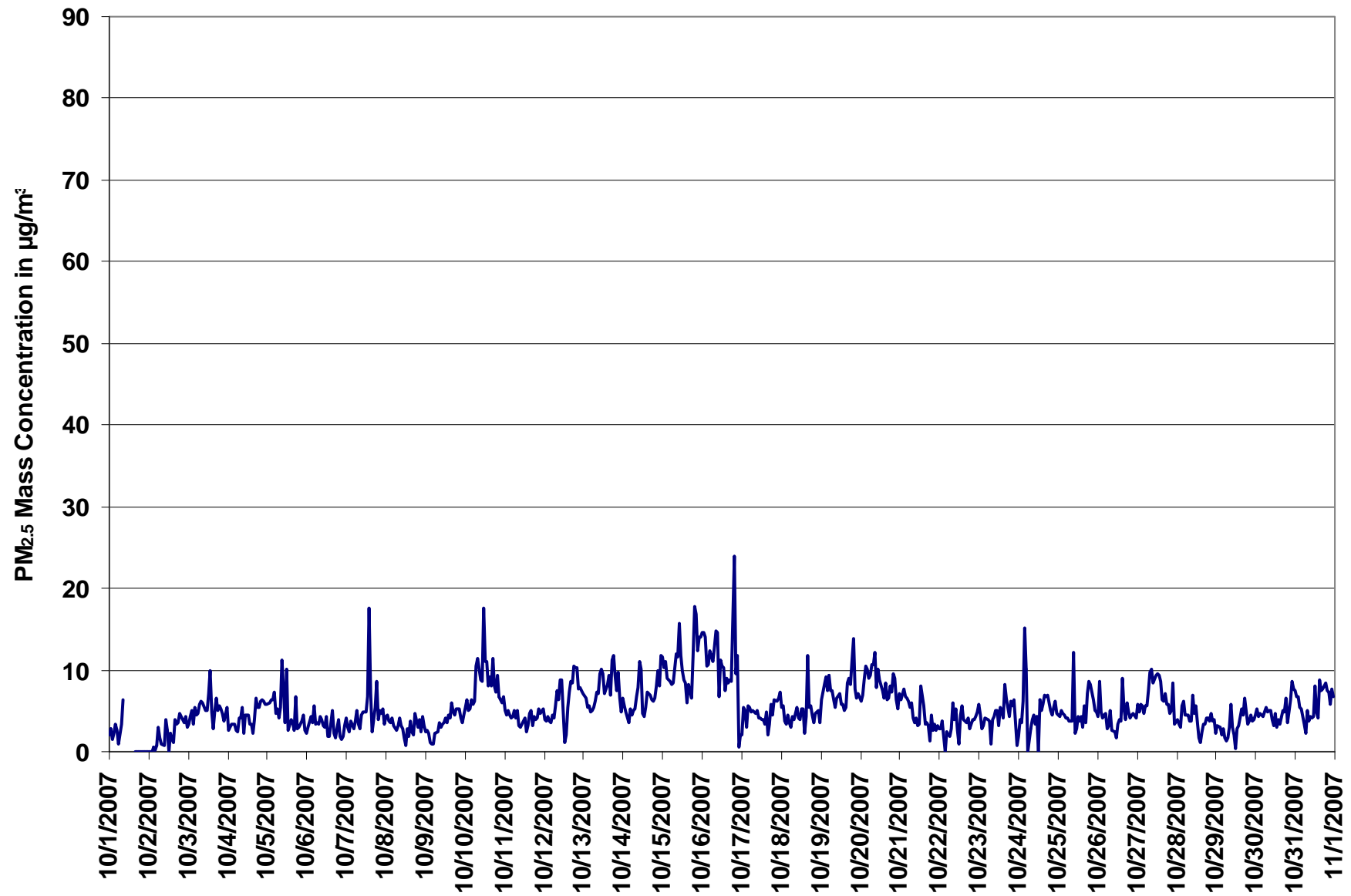
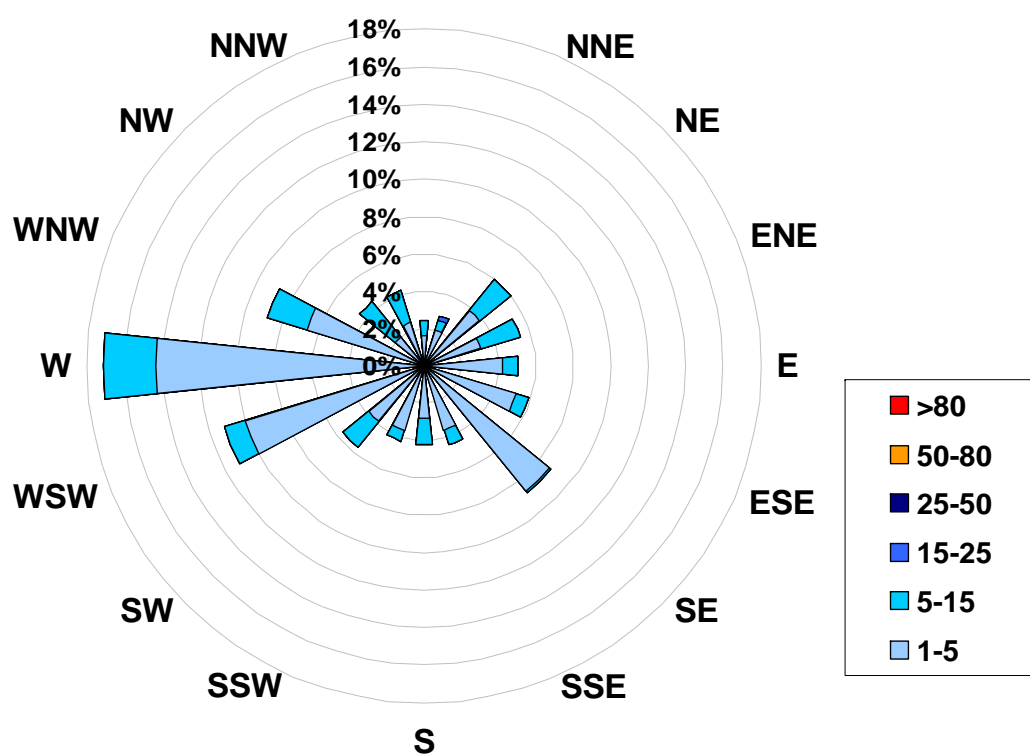


Figure 43. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			Frequency (hrs)
Range			
1.0	< 5		615
5	to 15		112
15	to 25		1
25	to 50		0
50	to 80		0
	> 80		0
Total Non-Zero Values			728

PASZA - Beaverlodge Relative Humidity Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

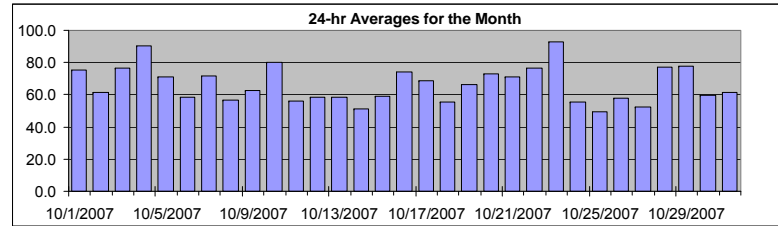
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	97.1	%	17-Oct	7:00 8:00
Maximum 24-hr Value:	92.5	%	23-Oct	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	96.6	95.7	78.9	66.4	53.9	36.4	31.8	66.3 %	66.4 %

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	23:00		
1-Oct-07	89	89	89	94	95	96	97	97	93	81	69	57	54	53	49	52	55	59	65	74	76	72	72	74	75.0	96.6
2-Oct-07	75	75	73	74	72	75	73	74	71	64	50	43	36	35	34	36	39	44	55	67	74	76	80	78	61.4	79.9
3-Oct-07	82	85	83	83	83	84	85	83	80	75	58	55	49	71	67	57	69	72	84	85	86	85	89	94	76.8	93.9
4-Oct-07	97	97	97	96	96	96	96	95	94	91	87	83	80	76	78	78	81	86	91	94	92	94	94	95	90.2	97.0
5-Oct-07	95	93	95	96	96	95	95	93	88	70	62	56	47	52	47	46	54	60	56	65	64	62	66	59	71.3	96.1
6-Oct-07	57	56	60	61	63	68	72	71	69	66	61	56	49	41	39	36	41	50	57	60	61	69	69	64	58.2	72.2
7-Oct-07	63	76	78	78	77	80	77	75	71	71	62	52	47	46	84	82	76	70	69	71	72	75	81	82	71.5	84.5
8-Oct-07	75	77	76	77	77	70	74	71	63	57	51	42	35	32	31	33	35	42	49	50	52	57	67	71	56.9	77.2
9-Oct-07	74	80	79	71	67	64	68	64	60	59	58	57	56	55	53	51	49	51	56	60	63	64	73	79	62.9	79.9
10-Oct-07	82	82	84	84	86	88	84	86	85	80	81	79	77	75	73	75	77	79	83	79	85	81	72	70	80.3	88.1
11-Oct-07	71	72	74	72	69	77	80	74	61	52	43	40	36	33	33	33	37	38	45	51	57	65	66	70	56.1	79.6
12-Oct-07	73	73	73	74	80	81	81	80	76	67	60	50	36	32	32	31	34	40	44	53	53	55	59	63	58.3	81.4
13-Oct-07	65	68	68	67	66	64	65	67	68	70	72	56	43	42	39	41	43	49	54	53	54	62	61	64	58.3	72.1
14-Oct-07	63	60	60	62	57	63	62	57	55	48	40	40	39	36	37	37	43	47	48	49	47	56	58	61	51.1	63.3
15-Oct-07	67	66	66	63	60	65	76	78	78	69	67	62	51	38	32	36	43	49	54	55	58	58	68	63	59.3	78.3
16-Oct-07	66	66	73	73	73	80	82	79	75	77	66	69	66	63	60	64	65	70	67	84	92	91	85	88	73.9	92.0
17-Oct-07	90	93	95	96	96	96	97	97	94	88	78	64	55	47	35	32	36	41	50	48	47	54	56	66	68.8	97.1
18-Oct-07	66	67	71	71	69	67	71	71	66	62	53	43	37	39	34	34	49	54	48	52	50	49	52	51	55.3	71.2
19-Oct-07	57	62	67	80	80	82	86	88	81	65	59	52	47	42	39	45	51	61	66	71	75	78	81	82	66.5	88.0
20-Oct-07	82	83	85	83	85	87	89	93	85	74	72	77	63	56	57	55	55	58	60	62	64	73	79	77	73.2	92.7
21-Oct-07	75	82	80	80	81	81	84	84	79	75	72	75	74	71	64	61	58	58	59	61	64	64	64	62	71.2	84.3
22-Oct-07	70	66	67	72	66	62	61	61	63	65	68	64	62	69	73	86	92	94	95	95	96	96	96	96	76.4	96.0
23-Oct-07	96	88	86	84	85	91	94	95	92	93	90	92	91	91	91	92	94	96	96	97	96	96	96	96	92.5	96.6
24-Oct-07	97	95	94	94	85	81	73	68	65	53	49	46	32	27	27	27	30	35	40	41	37	42	43	46	55.3	96.6
25-Oct-07	46	48	49	53	55	54	56	55	52	46	40	36	36	35	37	32	35	44	58	65	69	70	56	55	49.2	69.7
26-Oct-07	55	56	62	68	71	73	74	81	72	61	56	53	47	40	38	39	45	49	55	58	58	60	61	58	57.9	80.7
27-Oct-07	56	60	56	53	51	48	53	50	47	48	44	46	44	40	38	42	45	49	55	61	67	70	65	67	52.3	70.0
28-Oct-07	70	74	73	75	75	76	78	76	74	72	76	72	75	65	61	63	68	78	80	89	92	94	95	96	77.0	95.6
29-Oct-07	96	96	96	96	96	96	96	97	97	96	88	68	52	51	46	45	47	54	64	69	76	79	82	79	77.5	96.7
30-Oct-07	79	76	70	65	66	66	66	70	66	60	56	47	43	43	43	45	47	52	60	64	64	63	57	57	59.4	78.7
31-Oct-07	57	61	62	64	67	68	71	71	69	62	63	49	42	39	42	46	53	57	66	73	80	77	69	74	61.6	79.5
Hourly Avg	73.6	74.9	75.5	76.1	75.7	76.6	77.9	77.5	73.8	68.3	62.9	57.4	51.6	49.6	48.8	49.5	53.1	57.6	62.3	66.4	68.4	70.6	71.3	72.2		
Hourly Max	96.6	97.0	96.9	96.1	96.1	96.0	97.0	97.1	96.7	96.0	89.9	91.8	91.0	91.5	91.2	92.2	94.2	95.7	96.4	96.6	96.4	96.3	96.4	96.4		

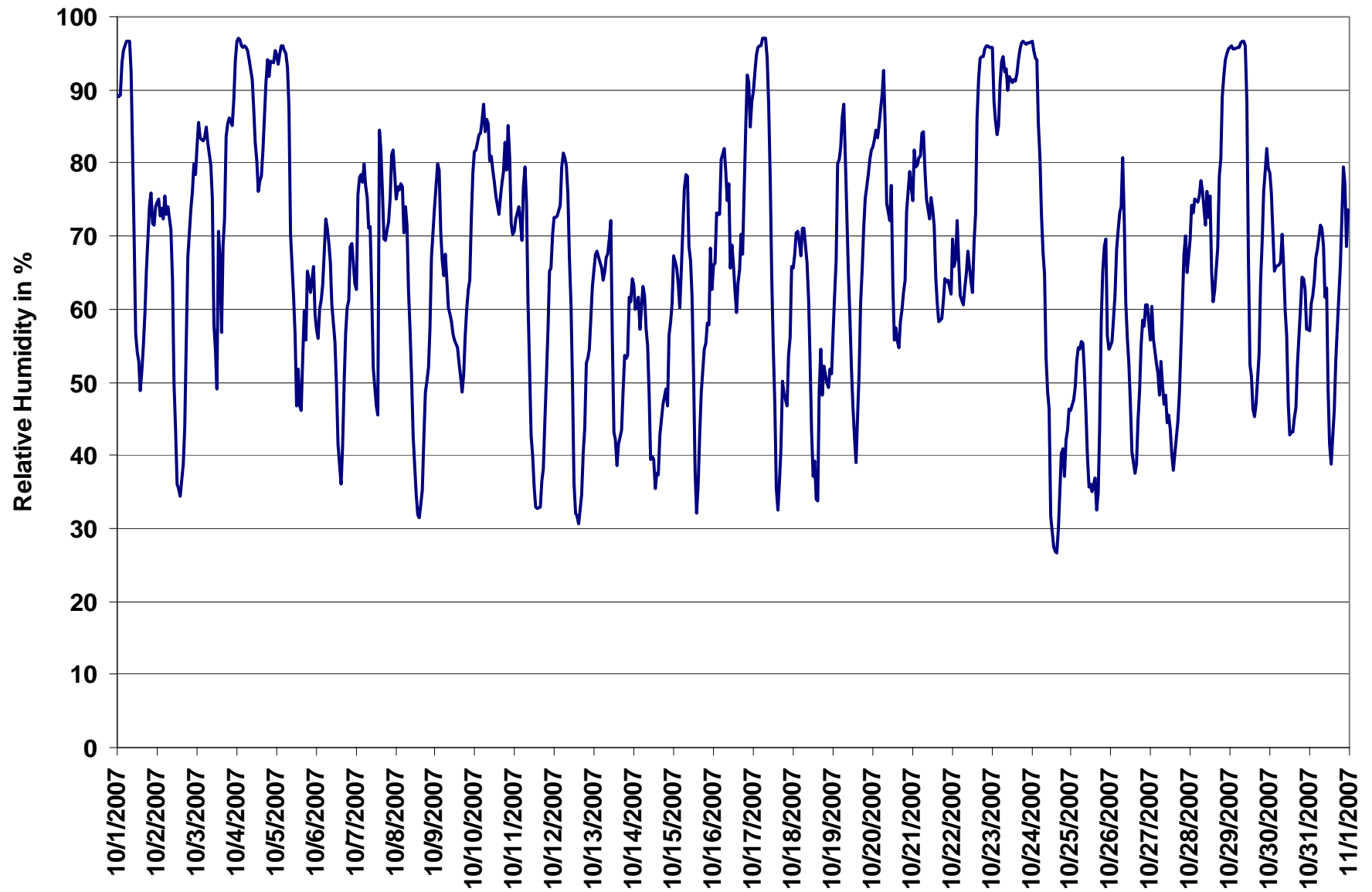


Figure 44. PASZA - Beaverlodge Relative Humidity 1-hr Average Monthly Trend

PASZA - Beaverlodge Temperature Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

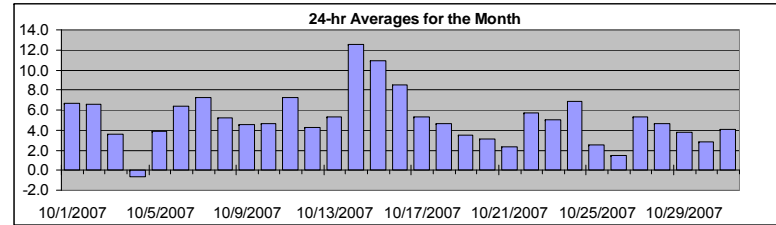
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	18.8 °C	15-Oct	14:00 15:00
Maximum 24-hr Value:	12.5 °C	14-Oct	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	16.3	11.7	7.7	4.9	2.0	-0.8	-2.3	5.1 °C	4.9 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Oct-07	5	5	5	4	3	3	2	2	4	6	9	11	11	11	12	11	10	9	8	7	6	6	6	5	6.7	11.8	
2-Oct-07	5	5	5	5	5	4	5	5	5	7	9	10	11	12	12	11	10	9	7	4	3	3	2	2	6.5	11.8	
3-Oct-07	1	0	0	0	1	1	1	2	3	5	7	7	9	5	7	8	6	5	4	3	3	3	1	3.6	8.7		
4-Oct-07	0	0	-1	-2	-2	-2	-2	-2	-2	-2	-1	0	0	1	1	1	1	0	0	0	0	0	0	0	-0.7	1.2	
5-Oct-07	0	0	-1	-1	-1	-1	-1	-1	-1	2	4	7	10	9	10	11	9	8	6	5	5	5	4	4	3.8	10.8	
6-Oct-07	4	4	4	4	4	4	3	4	5	6	8	9	10	11	11	11	10	8	7	6	6	4	4	6	6.3	11.3	
7-Oct-07	6	5	5	5	5	5	5	5	6	7	10	14	17	17	9	8	8	7	7	6	6	5	3	2	7.3	16.7	
8-Oct-07	3	2	2	2	1	2	1	1	3	5	7	9	11	12	12	11	10	8	7	6	5	4	2	1	5.3	11.6	
9-Oct-07	0	-1	-1	1	1	1	0	1	2	3	4	5	6	7	8	9	10	10	9	9	9	9	5	3	4.5	9.7	
10-Oct-07	2	1	1	1	0	0	1	1	2	5	5	7	7	8	9	9	9	8	7	7	5	5	7	7	4.7	9.1	
11-Oct-07	7	6	5	5	5	3	2	3	6	9	11	11	12	13	12	12	11	10	8	7	6	3	3	2	7.2	12.5	
12-Oct-07	1	1	1	1	-1	-1	-1	-1	0	3	5	9	10	11	11	12	11	9	7	5	4	3	2	1	4.2	11.8	
13-Oct-07	1	0	0	0	0	1	0	0	0	1	2	6	10	10	12	12	12	10	9	9	9	8	8	8	5.3	12.4	
14-Oct-07	8	9	9	9	9	8	9	9	11	14	16	16	16	18	17	17	16	15	14	13	14	12	11	10	12.5	17.8	
15-Oct-07	9	9	9	9	10	8	6	5	7	10	11	12	15	18	19	17	15	14	12	11	11	10	8	9	10.9	18.8	
16-Oct-07	8	8	7	7	7	6	5	6	7	7	9	10	10	11	13	13	13	11	10	8	8	8	7	5	8.5	12.7	
17-Oct-07	4	3	3	3	3	1	1	0	1	3	5	9	11	11	12	12	11	9	6	6	6	4	3	1	5.3	11.9	
18-Oct-07	1	1	0	0	1	1	0	0	2	3	6	9	11	10	11	10	9	7	7	5	5	5	4	4	4.6	10.8	
19-Oct-07	3	2	1	0	0	0	-1	-2	0	4	5	7	9	10	10	8	7	5	4	4	3	3	2	2	3.5	10.4	
20-Oct-07	2	1	1	1	1	0	0	-1	1	3	5	4	7	8	7	7	7	5	5	4	3	1	0	0	3.1	7.8	
21-Oct-07	0	-2	-1	-1	-2	-1	-2	-2	-1	0	2	2	2	3	5	6	6	6	6	6	5	6	6	7	2.4	6.6	
22-Oct-07	5	6	6	5	6	7	7	7	7	7	8	8	7	7	7	5	5	5	4	4	4	4	4	4	5.7	7.7	
23-Oct-07	4	5	5	5	4	3	3	3	3	4	5	5	6	6	6	7	6	6	6	6	6	5	5	4	5.0	6.6	
24-Oct-07	5	5	5	4	8	12	10	9	8	9	8	8	10	10	10	9	8	6	5	4	4	4	3	3	6.9	11.5	
25-Oct-07	2	2	2	2	1	1	1	1	2	3	5	6	5	6	5	7	6	3	0	-1	-1	-2	1	2	2.5	6.8	
26-Oct-07	2	1	-1	-2	-2	-3	-3	-5	-3	0	1	2	4	7	7	7	6	4	3	2	2	2	1	2	1.4	7.4	
27-Oct-07	2	1	1	1	2	2	1	3	5	7	8	9	10	11	11	10	9	8	7	5	3	3	5	4	5.3	11.4	
28-Oct-07	4	3	3	2	3	3	3	4	4	5	5	6	7	7	8	8	7	6	5	5	5	4	4	4	4.7	7.8	
29-Oct-07	4	4	4	4	4	4	3	3	3	4	4	4	6	7	6	7	7	6	4	3	2	1	0	0	3.8	7.4	
30-Oct-07	0	0	0	1	1	1	1	0	1	3	4	6	7	7	6	6	5	4	3	2	2	3	4	4	2.9	6.7	
31-Oct-07	4	3	3	3	2	2	2	2	3	4	5	8	10	10	9	8	6	5	3	2	0	0	2	0	4.1	10.0	
Hourly Avg	3.2	2.9	2.7	2.5	2.6	2.4	2.0	2.0	3.1	4.7	6.2	7.6	8.9	9.4	9.6	9.4	8.5	7.3	6.1	5.3	4.7	4.1	3.8	3.4			
Hourly Max	8.8	9.2	9.0	9.3	9.7	11.5	10.5	9.5	11.3	14.0	16.0	15.9	16.5	17.8	18.8	17.4	16.0	14.6	13.6	13.3	13.5	11.5	11.1	10.2			

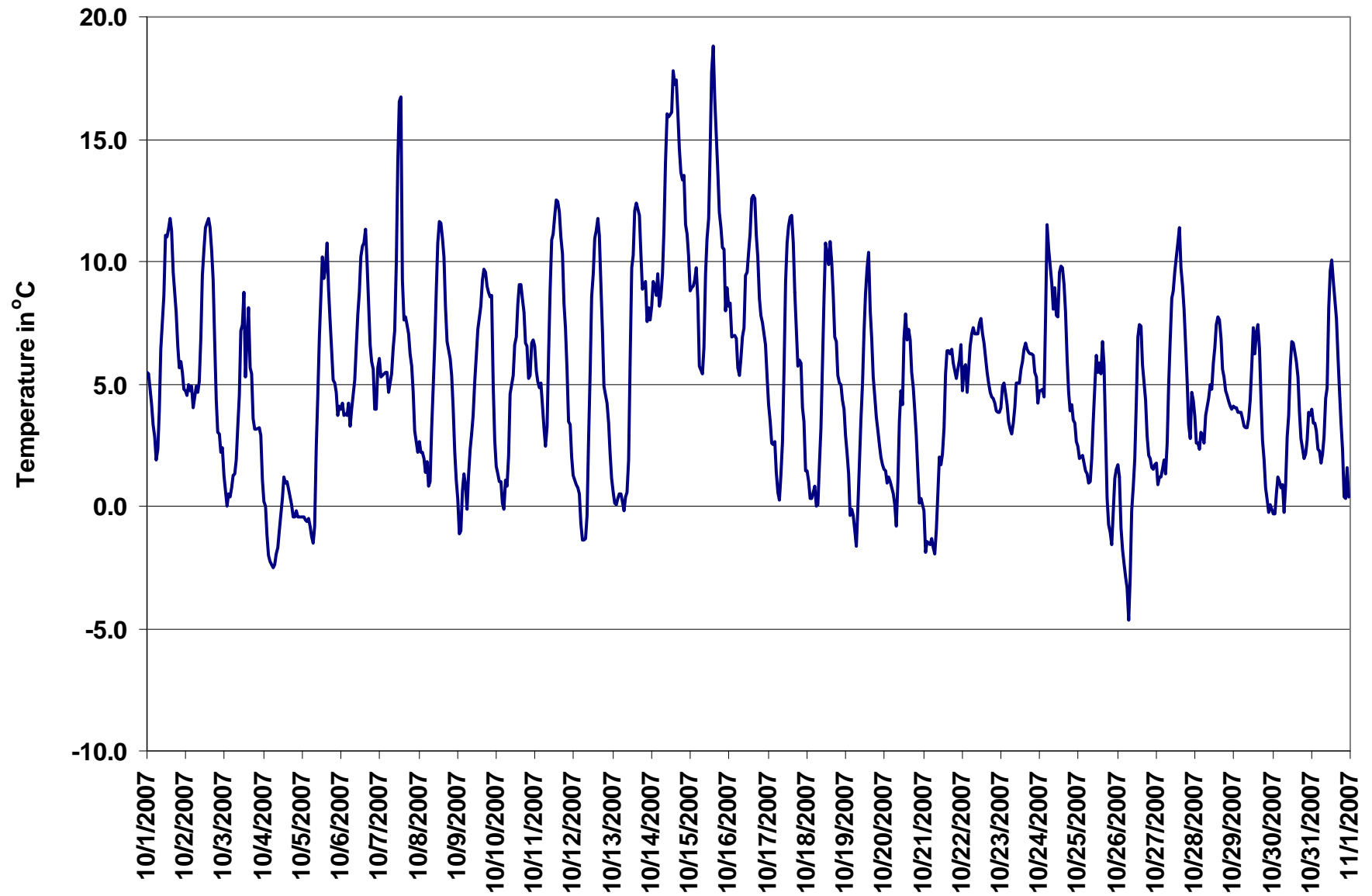


Figure 45. PASZA - Beaverlodge Temperature 1-hr Average Monthly Trend

PASZA - Beaverlodge Scalar Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

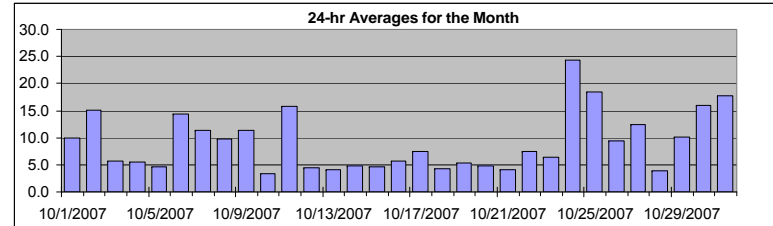
Wind Speed (WSs)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	36.7	km/hr	24-Oct	13:00 14:00
Maximum 24-hr Value:	24.3	km/hr	24-Oct	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	34.0	26.9	12.0	6.2	3.4	2.0	1.4	9.1 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max	
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Oct-07	2	3	3	4	1	2	2	2	5	9	17	19	20	17	25	18	23	20	11	13	7	9	5	5	10.0	25.2
2-Oct-07	3	3	4	3	2	6	13	7	13	18	35	32	32	31	29	27	26	21	13	9	10	8	7	10	15.1	35.2
3-Oct-07	6	2	2	3	3	4	3	4	2	3	12	11	10	13	7	4	10	6	7	4	3	5	5	6	5.6	12.7
4-Oct-07	8	10	8	9	6	4	5	5	5	6	6	7	7	6	7	5	6	3	4	4	3	3	3	1	5.5	9.8
5-Oct-07	2	3	4	3	7	8	8	8	6	2	3	3	2	4	5	6	7	5	7	2	3	5	3	5	4.6	8.0
6-Oct-07	6	7	3	3	4	5	7	15	20	26	26	24	27	31	33	25	27	20	8	1	5	5	7	11	14.4	32.7
7-Oct-07	14	11	14	14	15	11	9	7	6	5	7	8	11	7	21	11	15	18	16	14	14	10	5	10	11.3	20.5
8-Oct-07	8	10	15	15	8	8	8	5	4	7	12	17	20	18	15	16	15	8	5	6	6	4	2	2	9.7	19.7
9-Oct-07	3	2	1	3	8	6	3	15	18	18	18	16	15	14	14	15	14	18	17	17	14	13	4	3	11.3	18.2
10-Oct-07	2	3	3	3	4	4	3	5	5	3	4	2	5	2	1	4	3	6	5	2	3	3	3	3	3.4	5.8
11-Oct-07	3	6	9	10	12	7	10	13	17	14	29	36	34	30	29	30	23	19	16	13	7	4	3	2	15.8	35.6
12-Oct-07	3	3	4	3	2	2	2	2	4	3	3	5	14	13	11	9	5	4	2	2	3	3	2	3	4.5	14.5
13-Oct-07	3	4	3	3	3	2	3	4	4	3	3	4	3	5	9	8	3	6	6	7	3	4	4	3	4.1	9.0
14-Oct-07	4	3	2	3	2	4	3	4	3	2	5	8	8	6	6	4	6	5	5	6	6	9	5	5	4.7	8.6
15-Oct-07	2	4	3	5	2	3	2	3	3	3	4	4	2	3	9	6	6	7	6	8	9	9	5	3	4.6	9.2
16-Oct-07	3	5	4	4	4	4	3	5	5	4	7	6	7	7	4	4	4	6	7	8	5	14	9	8	5.8	14.4
17-Oct-07	7	4	2	2	3	2	3	3	4	4	4	5	10	18	24	22	14	11	9	10	7	4	3	3	7.5	24.1
18-Oct-07	3	3	4	3	3	2	2	3	2	3	3	3	2	3	2	6	7	7	7	8	9	11	8	4	4.3	11.3
19-Oct-07	3	3	2	3	3	6	3	0	2	5	8	7	7	8	9	9	7	6	7	6	5	7	7	5	5.3	8.9
20-Oct-07	5	5	5	4	4	2	3	2	4	4	5	5	6	7	5	4	7	7	4	6	8	5	4	5	4.8	7.5
21-Oct-07	3	2	2	3	2	2	4	4	2	1	2	4	5	4	4	5	7	6	9	6	5	7	4	5	4.1	8.7
22-Oct-07	3	10	12	6	5	7	14	12	12	6	3	6	10	14	12	8	6	7	4	3	3	5	4	4	7.4	13.8
23-Oct-07	2	7	6	6	2	3	3	6	8	11	12	11	7	9	7	9	9	8	8	7	5	4	4	2	6.5	11.9
24-Oct-07	2	2	5	6	9	30	32	32	29	33	30	29	35	37	34	35	25	25	28	25	25	28	26	22	24.3	36.7
25-Oct-07	22	20	21	23	21	20	19	21	20	23	27	24	22	22	18	22	20	14	11	10	8	6	13	16	18.4	26.8
26-Oct-07	18	13	9	7	6	4	3	2	2	2	6	8	9	20	19	19	20	18	13	8	6	5	3	3	9.4	20.2
27-Oct-07	5	4	3	3	4	3	4	11	9	12	17	20	19	22	29	26	21	23	14	8	8	5	17	8	12.4	29.1
28-Oct-07	5	4	6	6	4	3	5	2	2	2	3	2	4	10	12	5	4	5	2	2	0	1	2	3	3.9	12.4
29-Oct-07	3	3	3	3	2	3	5	3	4	6	4	14	21	21	23	21	22	20	15	10	8	10	10	10	10.1	22.5
30-Oct-07	9	8	12	15	15	15	15	8	5	12	13	20	31	27	32	32	29	19	13	9	11	7	16	11	16.0	31.9
31-Oct-07	20	24	30	20	9	10	9	9	9	16	8	7	19	36	32	35	30	26	21	18	8	7	15	8	17.8	36.1
1-hr Average	5.9	6.2	6.6	6.4	5.7	6.2	6.7	7.1	7.6	8.6	10.8	11.9	13.7	14.8	15.8	14.4	13.5	12.1	9.7	8.1	7.0	7.1	6.7	6.2		
Hourly Max	22.1	24.4	29.8	22.7	21.1	29.8	31.8	32.3	28.9	33.3	35.2	35.6	35.4	36.7	33.9	35.3	29.8	26.4	28.2	24.5	24.9	28.2	25.7	22.0		

PASZA - Beaverlodge Vector Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

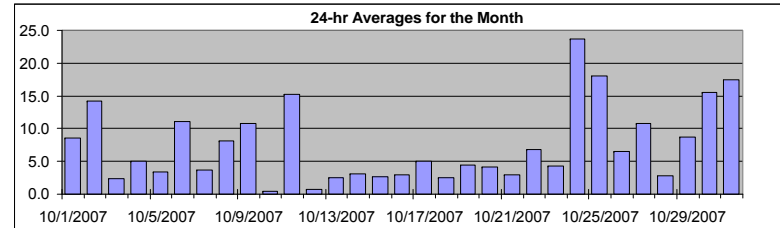
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	36.5	km/hr	24-Oct	13:00 14:00
Maximum 24-hr Value:	23.6	km/hr	24-Oct	



Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	33.8	26.8	11.7	5.8	2.9	1.1	0.5	24.1 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Oct-07	2	2	2	2	1	1	1	1	4	9	17	18	20	16	25	18	23	19	10	13	7	9	5	5	8.6	24.9	
2-Oct-07	3	2	2	1	1	6	13	6	13	18	35	32	32	31	28	27	25	21	13	9	10	8	7	10	14.2	35.1	
3-Oct-07	6	2	1	3	3	4	1	4	0	2	12	11	9	12	6	4	8	6	7	2	2	4	1	6	2.3	12.1	
4-Oct-07	8	10	8	9	6	4	5	5	5	6	6	7	6	6	7	5	5	3	4	3	2	3	3	1	5.0	9.7	
5-Oct-07	2	3	4	3	6	8	7	8	6	2	2	3	2	3	5	5	7	4	6	1	3	5	2	5	3.4	7.6	
6-Oct-07	6	6	3	3	3	3	7	15	19	26	25	24	27	31	33	25	27	20	8	1	5	5	7	11	11.0	32.6	
7-Oct-07	14	11	14	14	15	11	9	7	6	4	7	8	10	3	20	11	15	18	16	14	13	10	5	10	3.7	19.9	
8-Oct-07	6	10	15	14	8	7	8	3	4	7	12	17	19	17	15	16	15	8	5	6	6	3	0	1	8.2	19.4	
9-Oct-07	3	2	1	3	8	6	3	15	18	18	18	16	15	14	14	15	14	18	17	17	13	13	4	3	10.9	18.2	
10-Oct-07	2	2	2	1	4	3	1	3	5	2	3	2	4	1	0	1	3	5	5	2	3	3	3	1	0.5	4.9	
11-Oct-07	2	6	9	10	12	7	10	12	17	14	29	35	34	30	29	30	22	19	16	13	7	4	3	1	15.3	35.5	
12-Oct-07	3	2	4	3	2	2	1	2	4	3	3	4	14	12	11	9	4	4	1	1	2	2	1	2	0.7	14.3	
13-Oct-07	2	3	3	2	2	2	3	3	4	3	3	3	2	4	9	8	2	5	6	7	3	0	3	3	2.5	8.7	
14-Oct-07	4	3	2	3	1	3	2	4	3	0	5	8	8	5	5	4	5	5	5	6	6	8	2	4	3.1	8.3	
15-Oct-07	1	4	3	5	2	1	1	2	1	2	2	4	2	2	8	6	6	7	6	8	9	9	5	3	2.6	9.2	
16-Oct-07	3	5	3	3	2	3	3	4	4	3	6	2	7	7	3	4	4	6	7	7	3	13	8	8	3.0	13.4	
17-Oct-07	7	4	2	2	3	1	3	2	1	3	3	5	10	18	24	22	14	11	9	10	6	1	3	3	5.1	23.9	
18-Oct-07	1	2	4	3	3	2	2	2	2	3	2	2	2	2	3	1	5	7	5	8	9	11	8	3	2.5	11.2	
19-Oct-07	2	2	1	2	2	6	1	0	0	4	8	7	7	7	8	9	7	6	7	5	5	7	7	5	4.4	8.8	
20-Oct-07	5	5	4	4	4	2	1	0	3	4	5	5	6	6	5	3	7	6	4	6	7	5	4	4	4.2	7.4	
21-Oct-07	3	1	2	1	1	2	4	3	2	1	1	4	4	4	4	5	7	6	9	3	5	7	3	5	2.9	8.6	
22-Oct-07	1	9	12	5	5	7	13	12	12	5	3	6	10	13	12	8	6	7	4	3	3	5	4	4	6.8	13.5	
23-Oct-07	1	7	6	6	2	2	2	6	8	11	12	11	7	9	7	9	9	8	7	6	4	3	3	2	4.2	11.8	
24-Oct-07	1	1	4	4	8	30	32	32	29	33	29	29	35	37	34	35	25	25	28	24	25	28	26	22	23.6	36.5	
25-Oct-07	22	20	21	23	21	20	19	21	20	23	27	24	22	22	18	21	19	14	10	9	8	6	13	16	18.1	26.7	
26-Oct-07	18	11	9	7	6	3	3	2	2	2	6	8	9	20	19	19	20	18	13	7	6	5	2	3	6.5	19.9	
27-Oct-07	4	3	3	3	3	3	3	7	7	12	17	20	19	22	29	26	21	23	14	8	8	4	17	8	10.8	28.9	
28-Oct-07	5	2	6	2	3	1	4	1	2	2	1	2	4	9	12	5	4	5	2	2	0	1	2	3	2.8	12.3	
29-Oct-07	3	3	3	2	2	3	5	3	4	6	3	14	21	21	22	21	22	20	15	10	8	10	10	10	8.8	22.4	
30-Oct-07	9	8	12	15	15	15	15	8	5	11	13	20	31	27	32	32	29	19	13	9	11	7	15	11	15.5	31.7	
31-Oct-07	20	24	30	20	9	10	8	7	9	16	8	7	19	36	32	34	30	26	21	18	7	4	15	8	17.4	35.8	
1-hr Vector	2.6	2.0	2.2	1.7	1.5	3.1	3.3	3.5	3.6	4.9	6.4	7.9	10.3	11.3	12.5	11.3	10.0	8.2	5.3	4.1	3.2	2.5	3.3	3.3			
Hourly Max	22.1	24.3	29.8	22.7	21.1	29.7	31.7	32.2	28.8	33.1	35.1	35.5	35.1	36.5	33.6	35.2	29.7	26.4	28.0	24.5	24.9	28.2	25.7	21.9			

PASZA - Beaverlodge Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2007 to November 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
	349.4	318.7	271.8	233.8	130.3	40.4	16.0	277 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-Oct-07	70	52	27	315	273	245	127	154	229	257	266	266	264	266	265	271	259	256	239	237	226	223	179	202	256	WSW	
2-Oct-07	173	151	171	154	156	247	262	280	279	268	264	267	274	270	276	270	272	274	262	251	246	267	284	269	266	W	
3-Oct-07	263	252	114	66	107	209	15	229	243	160	300	310	320	17	26	247	278	37	55	297	52	43	243	38	330	NNW	
4-Oct-07	69	67	60	58	45	39	33	37	40	46	49	51	54	48	48	45	54	63	66	79	78	173	159	157	57	ENE	
5-Oct-07	122	150	141	160	198	238	220	239	222	189	132	98	131	104	177	192	180	250	252	146	217	228	111	201	197	SSW	
6-Oct-07	185	202	187	182	163	217	250	255	260	261	264	265	274	274	278	284	275	275	279	12	59	99	96	118	264	W	
7-Oct-07	133	124	114	118	125	131	125	120	121	141	122	140	145	236	303	282	257	264	266	264	267	259	245	246	198	SSW	
8-Oct-07	260	257	250	262	271	256	221	196	213	211	242	252	269	283	275	259	258	281	341	335	340	6	31	10	264	W	
9-Oct-07	90	126	23	91	129	136	178	128	127	125	124	131	136	136	140	127	138	137	137	131	125	128	203	209	132	SE	
10-Oct-07	150	115	90	152	245	68	16	354	57	27	40	260	296	71	2	234	210	259	92	187	152	102	190	168	111	ESE	
11-Oct-07	223	241	251	259	252	250	254	246	264	262	273	269	271	272	280	279	280	273	272	276	263	248	216	100	268	W	
12-Oct-07	81	86	78	74	117	103	89	136	75	145	159	227	298	298	306	312	359	74	140	113	87	94	169	110	354	N	
13-Oct-07	140	128	125	122	111	150	170	142	193	198	168	220	193	187	227	268	191	208	218	254	257	100	84	89	188	S	
14-Oct-07	93	97	116	104	141	77	79	63	65	283	301	332	343	349	353	359	26	27	33	37	350	45	65	278	23	NNE	
15-Oct-07	87	65	94	104	117	188	321	64	310	59	238	172	186	174	354	33	346	345	33	28	35	37	53	63	37	NE	
16-Oct-07	262	305	321	9	338	224	67	316	336	40	34	73	293	311	338	62	39	37	37	165	337	298	305	262	335	NNW	
17-Oct-07	258	249	191	62	69	139	81	146	95	148	218	250	265	265	274	273	288	284	267	294	294	252	84	105	269	W	
18-Oct-07	121	121	109	130	105	102	144	256	275	222	172	194	134	209	84	140	49	47	54	46	41	41	38	77	72	ENE	
19-Oct-07	136	83	230	38	330	295	336	227	82	312	320	304	283	287	291	287	310	329	339	348	346	332	329	319	316	NW	
20-Oct-07	326	325	309	318	317	292	21	43	305	284	286	241	264	252	295	293	292	289	285	279	271	246	255	255	286	WNW	
21-Oct-07	223	175	71	258	127	136	115	127	118	111	165	204	184	176	180	178	198	211	238	218	200	266	234	265	200	SSW	
22-Oct-07	275	251	272	258	205	235	273	280	269	263	221	285	296	288	274	257	237	227	215	209	240	233	239	229	260	W	
23-Oct-07	250	307	318	337	315	198	113	124	123	129	132	149	139	127	127	132	134	124	142	156	139	108	203	257	136	SE	
24-Oct-07	197	205	300	359	311	289	278	270	260	264	261	279	285	284	277	274	272	268	271	273	262	269	268	273	273	273	W
25-Oct-07	273	273	280	279	276	280	281	283	285	285	289	292	296	299	293	289	282	284	263	258	243	265	286	287	283	WNW	
26-Oct-07	286	339	10	347	354	301	266	112	159	163	184	175	223	265	260	255	263	272	268	251	220	204	182	206	264	W	
27-Oct-07	225	161	132	140	112	152	204	292	284	266	269	263	271	278	270	275	272	279	274	237	240	258	275	282	267	W	
28-Oct-07	281	232	209	241	223	146	212	234	273	215	90	59	194	227	258	260	197	181	123	93	103	81	159	163	220	SW	
29-Oct-07	171	158	148	180	130	171	183	226	224	227	247	282	282	282	279	282	280	276	263	266	265	262	268	266	267	W	
30-Oct-07	267	271	280	285	286	283	280	271	260	258	266	281	282	283	278	277	280	277	248	222	249	241	262	248	273	W	
31-Oct-07	263	265	263	253	239	229	214	245	246	259	230	255	264	258	262	275	271	262	266	256	232	235	259	261	259	WSW	
Hourly Avg	246	253	263	273	247	248	257	254	255	251	260	262	272	274	277	274	271	271	264	255	262	261	263	254			

PASZA - Beaverlodge Standard Deviation of Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2007 to November 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
	87.0	69.6	33.0	14.5	7.4	3.8	2.6

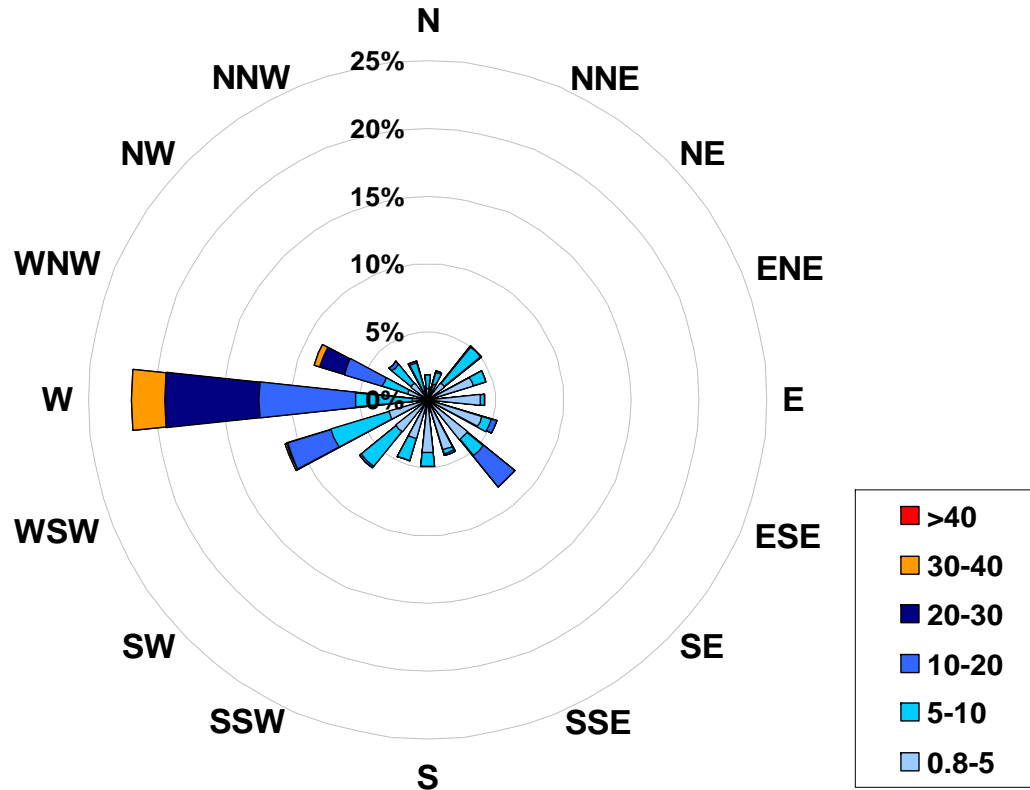
Status Flag Characters

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

Day Mountain Standard Time

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Oct-07	12	26	36	63	55	78	55	34	40	13	7	10	7	13	8	7	4	4	13	6	22	11	12	12	12		78.2	
2-Oct-07	11	39	55	68	56	22	5	32	9	8	6	7	6	8	9	6	9	5	10	10	10	11	8	15		68.5		
3-Oct-07	21	65	66	25	30	32	85	13	85	49	18	12	17	19	49	34	59	20	8	69	53	33	83	18		84.9		
4-Oct-07	10	8	4	5	5	6	6	10	10	4	5	5	5	5	6	8	8	7	16	11	46	24	9	29		45.6		
5-Oct-07	17	13	12	18	24	18	12	10	21	15	45	33	71	25	28	48	11	40	40	58	14	33	35	17		70.8		
6-Oct-07	8	5	26	10	22	63	65	8	7	5	5	8	6	6	5	9	5	5	56	67	10	20	5	5		67.1		
7-Oct-07	12	12	6	5	4	10	8	9	16	23	11	11	12	58	13	13	6	9	7	6	8	7	10	3		57.9		
8-Oct-07	69	26	9	7	12	20	17	48	27	12	12	10	11	10	12	7	5	25	16	5	12	30	98	71		97.5		
9-Oct-07	16	27	32	35	8	16	30	6	4	4	7	5	5	5	6	7	6	4	3	5	4	16	12	22		35.2		
10-Oct-07	33	62	58	65	25	43	73	58	48	66	46	66	34	84	77	79	32	44	29	44	27	29	45	67		84.5		
11-Oct-07	61	39	6	16	23	16	14	13	5	10	6	6	6	7	6	4	4	7	4	2	24	17	25	66		65.7		
12-Oct-07	31	13	11	9	23	21	30	25	12	26	26	33	10	11	11	14	36	19	53	78	32	24	52	49		77.8		
13-Oct-07	24	27	29	51	38	31	36	20	17	13	32	52	44	23	17	14	47	15	13	11	29	85	34	26		85.3		
14-Oct-07	9	21	30	20	46	51	72	18	12	85	14	14	18	29	25	26	15	13	14	8	12	17	86	22		86.5		
15-Oct-07	70	7	24	15	22	56	72	49	89	33	62	21	31	68	26	18	20	17	14	6	5	7	46	45		88.9		
16-Oct-07	17	38	46	52	58	62	72	40	63	64	11	93	18	9	31	24	20	11	14	44	57	29	8	10		93.0		
17-Oct-07	7	25	33	65	19	59	24	42	85	33	28	19	9	10	6	5	5	2	15	6	33	88	67	45		88.2		
18-Oct-07	65	28	17	18	18	14	19	57	56	32	38	33	59	55	25	41	10	3	45	3	3	4	14	22		65.4		
19-Oct-07	54	34	65	45	42	23	66	66	89	36	12	15	18	18	16	10	5	7	4	23	18	3	5	8		88.9		
20-Oct-07	6	9	26	14	10	25	82	98	44	21	20	19	18	42	24	17	8	22	13	5	10	7	48	34		97.6		
21-Oct-07	53	82	23	88	61	30	21	18	40	75	43	17	13	16	15	12	11	20	10	62	20	24	28	17		88.1		
22-Oct-07	79	63	6	43	18	20	13	7	9	40	33	20	5	8	10	9	14	3	8	10	9	6	11	8		78.9		
23-Oct-07	70	7	8	12	34	41	70	14	7	5	9	8	15	12	11	12	10	15	18	38	35	53	37	76		76.2		
24-Oct-07	73	75	55	52	51	5	5	6	3	5	4	5	8	6	7	5	5	6	7	4	4	3	3	3		75.0		
25-Oct-07	3	4	3	3	3	2	3	3	2	4	4	6	6	6	5	8	6	6	6	8	9	4	15	3	3		14.5	
26-Oct-07	3	36	13	14	11	31	11	47	32	32	13	11	24	12	9	7	3	7	8	28	18	7	37	41		47.0		
27-Oct-07	54	45	28	33	28	23	22	61	56	7	8	8	7	6	8	6	6	6	15	13	14	34	14	10		61.1		
28-Oct-07	18	66	37	87	79	65	60	62	57	33	69	59	20	24	8	18	10	5	25	11	6	15	13	6		87.5		
29-Oct-07	4	11	17	47	18	22	9	14	26	28	40	7	5	4	5	5	6	4	6	11	12	5	7	8		47.0		
30-Oct-07	5	12	8	3	2	4	3	47	31	14	12	6	5	8	5	4	4	8	12	5	11	16	12	10		47.4		
31-Oct-07	4	4	4	3	10	11	16	31	10	10	6	20	6	7	7	7	5	4	5	9	48	74	6	15		73.7		
Hourly Max	79	82	66	88	79	78	85	98	89	85	69	93	71	84	77	79	59	44	56	78	57	88	98	76				

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



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	301
5	to	10	222
10	to	20	132
20	to	30	67
30	to	40	22
	>	40	0
Total Non-Zero Values			744

PASZA – Portable-Spirit River Station

Monthly Summary Tables, Graphs and
Roses

PASZA - Portable-Spirit River Sulphur Dioxide Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

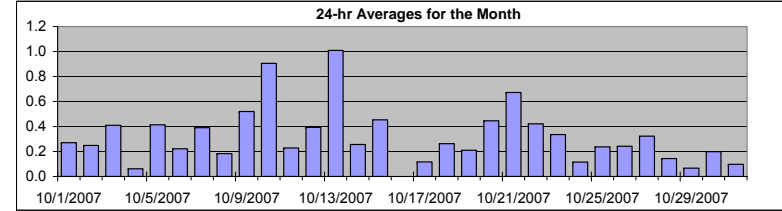
Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2007 to November 1, 2007

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

Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	5.4 ppb 13-Oct 9:00 10:00
Maximum 24-hr Average:	1.0 ppb 13-Oct



AIC Time:	33 hrs	Operational Time:	706 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	98.9%
Percentile	99 95 75 50 25 5 1	Average	Median
	1.9 1.0 0.4 0.2 0.1 0.0 0.0	0.3 ppb	0.2 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-Oct-07	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0	0	1	1	0	0	0.3	1.3
2-Oct-07	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.2	1.0
3-Oct-07	0	0	0	0	0	0	0	0	0	0	1	2	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0.4	1.9
4-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
5-Oct-07	0	0	0	0	0	0	0	0	0	1	0	0	0	A	0	0	1	1	2	2	0	0	0	0	0	0	0.4	1.8
6-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
7-Oct-07	3	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.5
8-Oct-07	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
9-Oct-07	0	0	0	0	0	0	0	0	0	A	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0.5	1.2
10-Oct-07	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	0	0.9	1.5
11-Oct-07	0	0	0	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9
12-Oct-07	0	0	0	0	0	A	0	0	0	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	1	0	0.4	0.7
13-Oct-07	0	0	1	2	A	0	0	1	2	5	5	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	5.4
14-Oct-07	0	1	0	A	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.1
15-Oct-07	0	0	A	0	0	0	0	0	0	0	0	1	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0.5	1.7
16-Oct-07	0	A	0	0	0	0	0	0	0	C	C	C	0	1	1	M	M	A	1	0	0	0	0	0	0	0	N	0.7
17-Oct-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	0.1	0.3
18-Oct-07	0	0	0	A	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7
19-Oct-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.2	0.5
20-Oct-07	0	A	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0.4	0.8
21-Oct-07	A	0	0	0	0	0	0	0	0	0	1	1	3	2	1	1	2	1	2	1	0	0	0	0	A	0	0.7	2.5
22-Oct-07	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	0	1	0	0	0	0	0	A	0	0.4	1.3
23-Oct-07	1	1	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	1.6
24-Oct-07	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.1	0.7
25-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.2	0.4
26-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.2	0.4
27-Oct-07	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	A	0	0	0	0	0	0	0	0	0.3	0.6
28-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	A	0	0	0	0	0	0	0	0	0.1	0.9
29-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.1	0.2
30-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.2	0.4
31-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
Hourly Avg	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2			
Hourly Max	2.5	1.2	0.8	1.9	1.4	1.2	0.8	0.9	2.1	5.4	4.8	2.8	1.5	1.7	1.3	1.8	1.3	1.7	1.8	0.9	1.1	1.3	0.6	0.7				

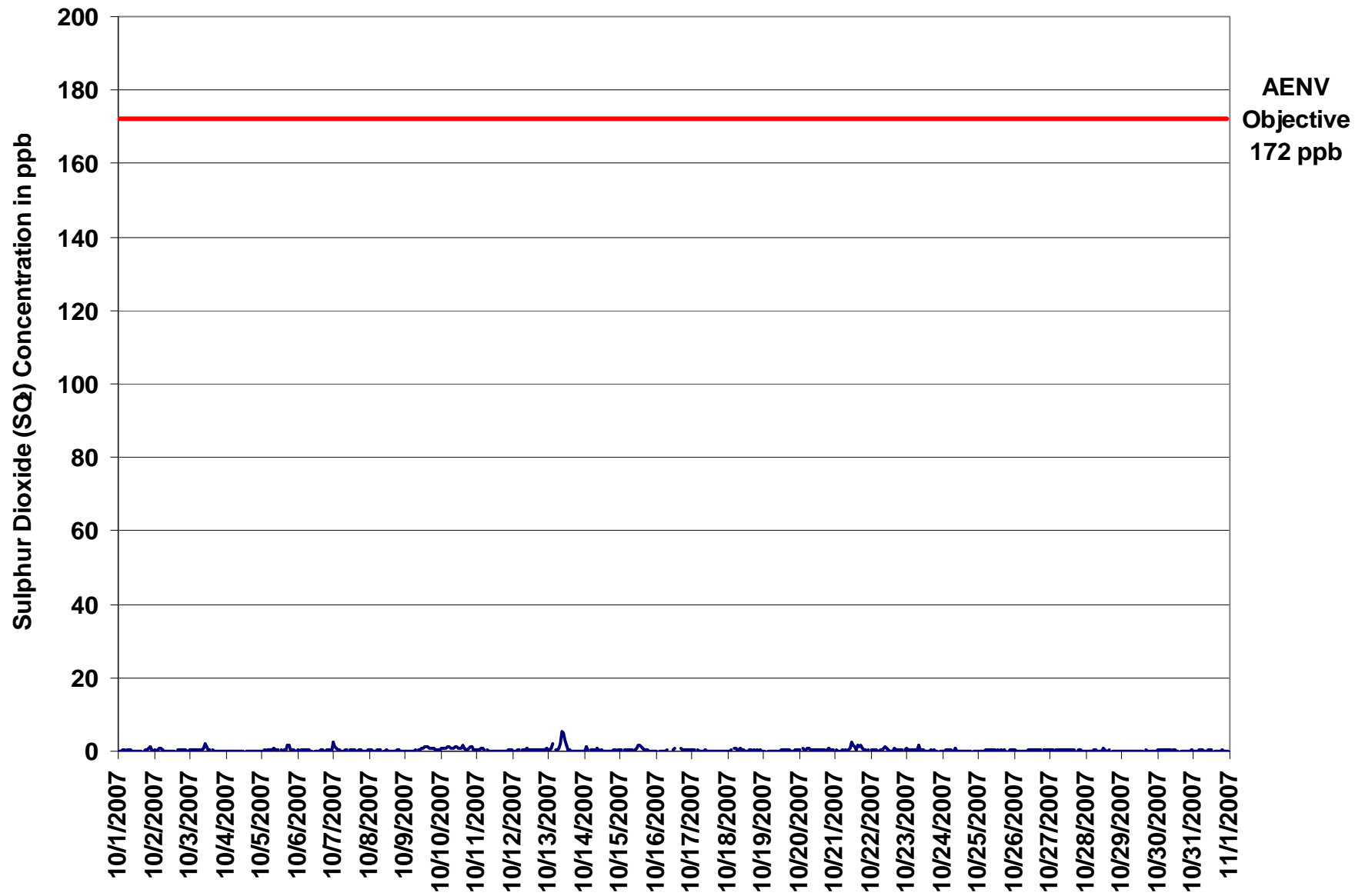


Figure 46. PASZA - Portable-Spirit River Sulphur Dioxide 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

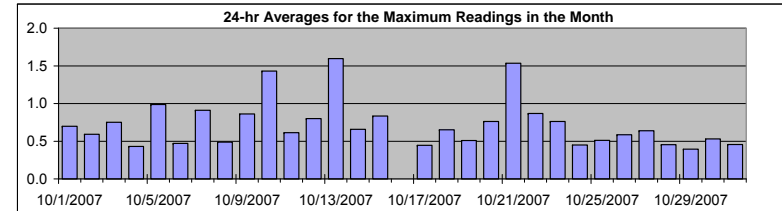
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	7.3	ppb	7-Oct	0:00 1:00
Maximum 24-hr Value:	1.6	ppb	13-Oct	



AIC Time:	33 hrs	Operational Time:	706 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	98.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.9	1.9	0.9	0.4	0.4	0.3	0.3	0.7 ppb	0.4 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Oct-07	0	0	0	1	1	0	1	1	0	0	0	0	0	0	1	0	A	0	0	1	2	3	1	0	0.7	3.4	
2-Oct-07	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	A	1	0	0	1	1	1	0	0	0.6	1.4	
3-Oct-07	0	0	0	1	1	1	1	0	1	1	2	2	1	1	A	1	0	0	0	0	0	0	0	0	0.8	2.4	
4-Oct-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	0.4	0.5	
5-Oct-07	0	0	0	0	0	0	0	1	2	1	1	0	A	0	0	1	1	3	6	2	1	1	0	0	1.0	5.8	
6-Oct-07	1	0	0	0	0	0	0	1	0	0	0	A	0	0	0	0	0	1	0	0	0	1	0	0	0.5	0.9	
7-Oct-07	7	2	2	0	1	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	7.3	
8-Oct-07	0	0	0	0	0	1	1	1	1	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.5	0.9	
9-Oct-07	0	0	0	0	0	0	0	0	A	0	1	1	1	1	1	2	1	1	2	1	1	1	1	1	0.9	1.9	
10-Oct-07	1	1	1	1	2	2	1	A	2	1	2	1	1	1	1	2	1	1	1	2	2	2	1	1	1.4	2.4	
11-Oct-07	1	1	1	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0.6	1.4	
12-Oct-07	0	0	0	0	0	A	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	3	0.8	2.9
13-Oct-07	0	1	1	3	A	1	1	2	4	6	6	4	2	2	0	0	0	0	0	0	0	0	0	0	1.6	6.4	
14-Oct-07	1	2	1	A	1	1	1	1	1	1	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0.7	2.3	
15-Oct-07	1	0	A	0	0	0	0	1	0	0	1	2	2	2	2	1	1	1	0	0	0	0	0	0	0.8	2.4	
16-Oct-07	0	A	0	0	0	0	0	1	C	C	C	1	1	1	M	M	A	1	1	1	1	1	0	0	N	0.9	
17-Oct-07	0	1	0	A	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6	
18-Oct-07	0	0	0	A	1	1	0	0	1	1	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0.7	1.4	
19-Oct-07	0	0	A	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	0.5	0.9	
20-Oct-07	1	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	0.8	1.4	
21-Oct-07	A	0	0	0	0	0	0	0	0	1	2	4	3	3	2	2	2	7	1	0	0	0	1	A	1.5	6.9	
22-Oct-07	0	1	0	0	0	0	1	0	1	2	1	1	0	0	2	3	1	1	0	1	0	0	A	1	0.9	2.9	
23-Oct-07	1	1	1	0	0	1	1	1	3	1	1	0	0	0	0	0	1	0	0	0	0	A	0	0	0.8	3.4	
24-Oct-07	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.5	0.9	
25-Oct-07	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.5	0.9	
26-Oct-07	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	1	1	A	1	1	0	1	0	0.6	0.9	
27-Oct-07	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	A	0	1	0	0	0	1	0.6	0.9	
28-Oct-07	0	0	0	0	0	1	0	0	0	0	0	2	2	0	0	0	A	0	0	0	0	0	0	0	0.5	1.8	
29-Oct-07	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.4	0.9	
30-Oct-07	1	1	0	0	0	0	1	0	1	0	1	0	0	0	A	0	0	0	0	0	0	1	1	0	0.5	0.9	
31-Oct-07	0	0	0	0	1	1	0	0	0	0	1	1	1	A	0	0	0	0	0	0	1	0	0	0	0.5	0.8	
Hourly Avg	0.8	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.9	0.9	1.0	0.9	0.8	0.7	0.7	0.8	0.7	0.8	0.7	0.7	0.6	0.7	0.5	0.6			
Hourly Max	7.3	2.4	1.9	2.9	1.9	1.9	1.0	1.9	3.9	6.4	5.8	4.4	2.9	2.9	1.9	2.9	2.4	6.9	5.8	1.9	2.4	3.4	1.4	2.9			

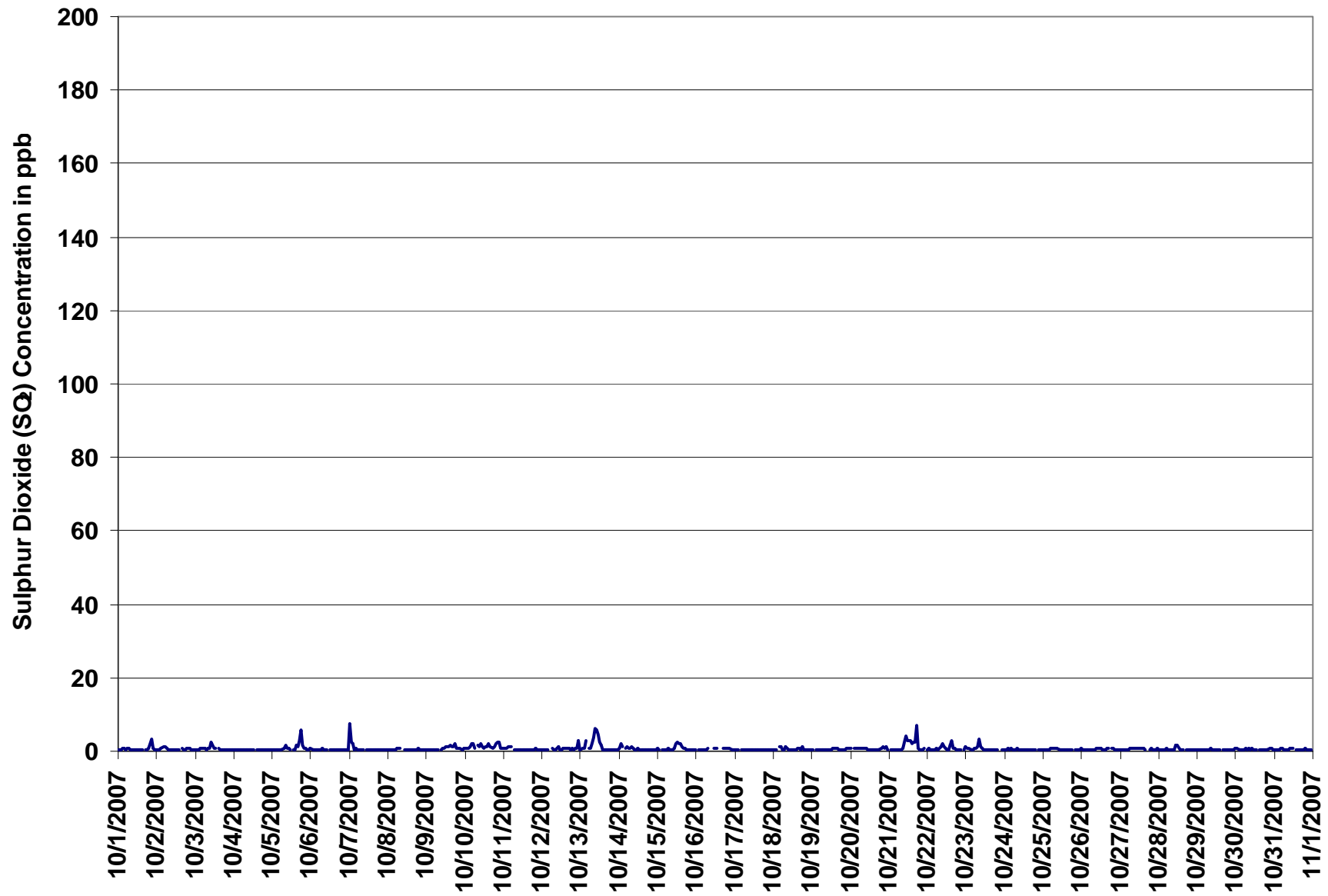
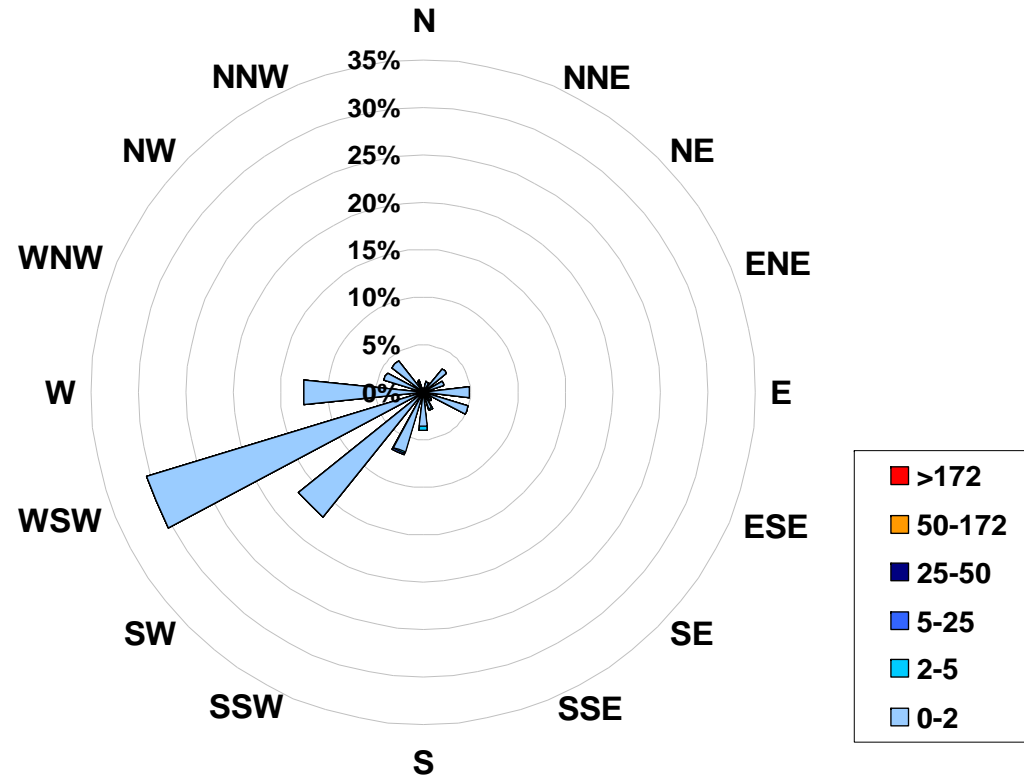


Figure 47. PASZA - Portable-Spirit River Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Portable-Spirit River Site for October 2007



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	700
2	to	5	5
5	to	25	1
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			706

PASZA - Portable-Spirit River Nitrogen Dioxide Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

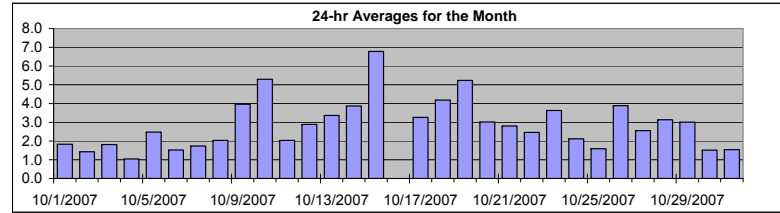
Nitrogen Dioxide (NO₂)

Monitoring Dates: October 1, 2007 to November 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:	15.1 ppb 26-Oct 7:00 8:00
Maximum 24-hr Average:	6.8 ppb 15-Oct



AIC Time:	49 hrs	Operational Time:	688 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	98.8%
Percentile	99 95 75 50 25 5 1	Average	Median
	11.1 8.2 3.7 2.3 1.4 0.9 0.6	3.0 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 Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-Oct-07	4	2	2	2	2	2	2	3	4	3	1	1	1	A	A	2	1	1	1	2	2	1	1	1	1	1	1.8	4.0
2-Oct-07	2	2	1	1	1	1	1	1	1	1	1	0	A	2	2	1	1	1	1	1	2	2	2	1	1	1	1.4	2.4
3-Oct-07	1	1	2	2	3	2	4	5	4	3	A	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.8	5.0
4-Oct-07	1	1	1	1	1	1	1	1	1	A	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.0
5-Oct-07	1	2	1	1	1	2	2	A	5	2	2	2	2	1	1	1	2	3	8	7	4	3	3	2	2	2.5	8.0	
6-Oct-07	1	1	1	1	1	1	A	3	2	1	1	1	1	0	0	1	0	1	3	3	2	2	2	4	1.5	3.7		
7-Oct-07	3	2	2	2	A	A	3	2	2	2	2	2	2	2	2	2	1	1	2	1	1	1	1	1	1	1.7	3.0	
8-Oct-07	1	1	1	A	A	2	2	2	2	2	1	3	2	1	1	2	1	1	2	3	2	2	3	3	4	2.0	3.9	
9-Oct-07	3	3	A	6	3	4	5	6	4	4	3	3	3	3	3	4	4	5	8	4	4	3	3	3	3	4.0	8.4	
10-Oct-07	A	A	4	3	3	3	3	7	4	5	6	5	4	5	5	5	6	8	9	8	7	6	4	A	5.3	9.0		
11-Oct-07	A	4	3	2	2	2	2	2	1	1	3	1	1	1	1	1	1	1	1	3	5	3	2	A	4	2.0	4.8	
12-Oct-07	3	2	2	2	2	3	2	4	3	2	1	1	1	1	1	1	2	1	2	9	9	A	A	4	4	2.9	9.1	
13-Oct-07	5	7	4	3	3	3	3	4	4	3	3	6	4	2	1	2	4	3	3	A	A	3	2	3	3.4	6.9		
14-Oct-07	2	3	3	3	3	4	5	4	3	2	1	1	1	1	1	1	3	7	A	11	9	7	7	7	3.9	11.2		
15-Oct-07	7	7	5	6	9	9	7	7	8	5	4	5	4	3	2	2	2	A	9	11	13	11	10	9	6.8	13.2		
16-Oct-07	9	8	4	6	7	11	11	8	C	C	C	A	M	M	M	A	11	13	10	10	9	7	7	N	12.7	N	12.7	
17-Oct-07	5	3	3	A	4	5	8	6	4	3	2	1	1	1	1	1	1	3	6	5	3	4	3	2	3.3	8.4		
18-Oct-07	2	3	3	A	4	3	4	5	4	4	2	1	1	1	1	2	3	5	10	8	8	10	9	7	4.2	9.6		
19-Oct-07	6	A	A	7	8	6	8	8	9	9	5	4	3	3	2	7	2	4	5	5	3	4	4	3	5.2	8.8		
20-Oct-07	A	A	4	4	3	3	3	3	2	2	2	2	2	2	2	1	2	2	7	5	5	4	3	A	3.0	7.2		
21-Oct-07	3	3	2	2	2	2	3	4	3	3	2	2	2	2	2	3	4	5	5	3	2	A	A	2	2.8	5.3		
22-Oct-07	2	2	2	2	2	2	2	2	2	2	3	1	2	2	2	2	4	8	3	2	3	A	A	4	3	2.5	7.9	
23-Oct-07	3	2	3	4	5	7	6	3	2	3	2	2	2	2	2	3	4	5	5	A	5	5	5	4	3.6	7.0		
24-Oct-07	4	4	4	3	4	6	2	2	2	1	1	1	1	1	1	1	2	1	A	2	2	1	1	1	2.1	5.9		
25-Oct-07	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	1	A	A	5	2	2	2	2	2	1.6	5.0	
26-Oct-07	2	1	1	1	1	2	3	15	15	7	3	1	2	2	2	A	5	5	5	3	3	3	3	3	3	3.9	15.1	
27-Oct-07	3	3	5	4	3	3	3	3	3	3	3	3	2	1	A	2	2	2	2	3	2	2	2	1	2.6	4.6		
28-Oct-07	2	2	2	2	2	3	3	3	2	2	A	A	2	2	3	7	10	4	3	3	4	6	6	6	3.1	9.8		
29-Oct-07	5	8	4	3	3	5	5	4	4	3	3	A	3	2	1	2	1	2	4	2	1	1	1	1	3.0	8.1		
30-Oct-07	1	1	1	2	1	2	2	2	2	2	A	2	1	1	1	1	1	1	1	1	1	1	2	1	1.5	2.1		
31-Oct-07	2	2	1	1	2	2	2	2	A	2	2	1	1	1	1	1	1	1	2	1	1	1	2	2	1.5	2.3		
Hourly Avg	3.0	2.9	2.5	2.7	3.0	3.4	3.7	4.0	3.6	2.7	2.4	2.1	1.9	1.6	1.6	2.0	2.3	3.3	5.0	4.4	3.7	3.5	3.2	3.1				
Hourly Max	9.3	8.1	4.7	7.4	9.2	11.1	10.7	15.1	14.9	8.8	6.5	6.2	4.4	4.6	4.8	6.8	7.9	11.3	12.7	11.2	13.2	11.4	10.1	8.7				

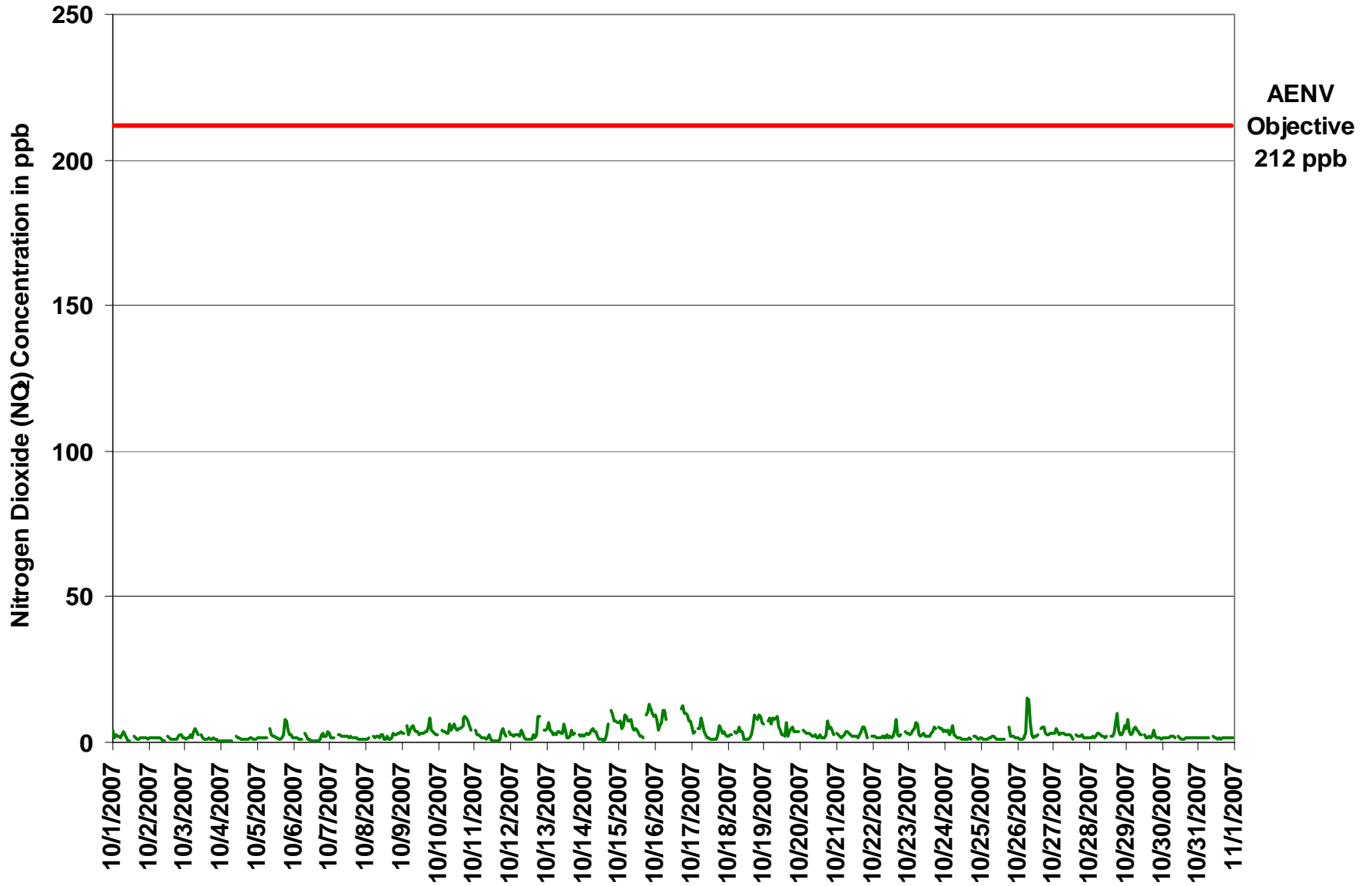


Figure 48. PASZA - Portable-Spirit River Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

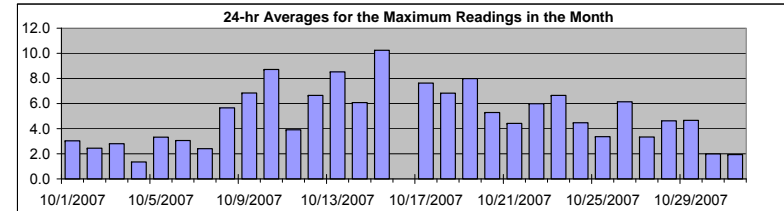
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	49.0	ppb	13-Oct	11:00 12:00
Maximum 24-hr Value:	10.2	ppb	15-Oct	



AIC Time:	49 hrs	Operational Time:	688 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	98.8%						
Percentile	99	95	75	50	25	5	1	Average	Median
	26.1	13.9	6.3	3.4	2.0	1.3	0.9	5.2 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 Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Oct-07	7	3	3	2	2	2	6	6	4	3	2	2	A	A	7	2	2	4	3	3	2	2	2	2	3.0	7.1
2-Oct-07	2	2	3	2	2	2	2	2	3	1	1	A	4	3	2	3	2	4	3	4	3	4	2	2	2.4	4.4
3-Oct-07	2	2	2	2	4	4	5	6	5	5	A	4	2	1	1	2	8	1	2	2	2	1	1	1	2.8	7.7
4-Oct-07	1	1	1	1	1	1	1	1	A	A	2	2	1	1	1	1	1	2	1	2	2	1	2	1	1.3	2.5
5-Oct-07	2	2	2	2	2	2	2	A	7	3	2	3	2	2	2	2	5	10	9	7	4	3	2	3.3	10.3	
6-Oct-07	2	2	4	2	1	1	A	5	3	2	1	1	1	1	1	1	8	8	6	5	3	3	9	3.1	8.9	
7-Oct-07	8	3	3	3	A	A	3	3	3	2	2	2	2	2	3	2	2	2	2	2	1	1	2	1	2.4	8.1
8-Oct-07	1	2	2	A	A	2	2	3	5	6	9	26	7	5	18	2	6	4	5	4	4	4	6	5.7	26.1	
9-Oct-07	6	6	A	9	5	7	8	9	8	7	10	3	5	5	6	5	5	8	26	5	5	4	3	3	6.8	26.1
10-Oct-07	A	A	5	4	4	4	4	17	10	17	15	8	6	9	8	7	12	12	11	10	9	8	5	A	8.7	17.3
11-Oct-07	A	5	3	3	2	2	2	3	2	2	15	3	2	3	1	2	3	3	7	10	5	4	A	5	3.9	14.6
12-Oct-07	3	3	3	3	3	3	3	9	8	5	1	1	4	15	2	25	4	9	17	15	A	A	6	5	6.7	24.8
13-Oct-07	8	8	6	5	3	4	3	7	6	4	5	49	17	2	2	3	35	5	7	A	A	5	2	3	8.5	49.0
14-Oct-07	3	4	4	3	3	6	6	7	5	3	2	4	2	2	2	2	10	12	A	14	12	13	11	11	6.1	13.7
15-Oct-07	11	10	9	9	11	14	12	13	11	7	5	6	6	3	3	2	2	A	23	18	20	19	12	11	10.2	22.8
16-Oct-07	12	10	5	9	11	13	13	14	C	C	C	C	A	M	M	M	A	18	18	16	12	11	10	10	N	18.5
17-Oct-07	9	4	5	A	6	10	35	17	22	6	4	3	1	3	1	3	5	7	10	6	4	6	4	5	7.6	35.4
18-Oct-07	3	4	4	A	6	4	4	12	5	5	5	2	2	2	2	9	9	9	12	11	12	13	14	10	6.8	13.8
19-Oct-07	9	A	A	10	10	8	10	9	12	16	6	8	3	3	6	19	3	10	8	7	5	4	4	4	8.0	19.2
20-Oct-07	A	A	5	5	4	4	4	5	3	3	3	2	2	15	2	2	3	10	13	8	7	6	4	A	5.3	15.4
21-Oct-07	5	3	2	2	2	3	4	10	4	3	7	3	4	3	3	5	8	8	8	2	A	A	3	3	4.4	9.6
22-Oct-07	2	2	2	2	2	2	2	3	3	2	23	2	12	6	5	18	23	4	3	5	A	A	5	5	6.0	23.1
23-Oct-07	5	3	4	6	6	12	10	4	5	4	11	3	2	3	4	10	14	12	8	A	11	7	7	5	6.7	14.1
24-Oct-07	7	5	5	3	5	32	3	9	3	2	2	1	1	1	1	1	9	1	A	3	2	2	2	2	4.5	32.0
25-Oct-07	3	1	1	1	1	11	3	10	5	5	1	3	1	3	1	2	A	A	7	4	3	2	3	2	3.4	10.6
26-Oct-07	2	2	2	1	3	3	11	28	28	10	5	2	2	3	3	A	6	6	7	4	3	3	3	4	6.1	28.3
27-Oct-07	4	4	5	6	3	4	4	4	3	3	3	3	3	2	A	3	3	3	6	3	2	2	2	2	3.3	6.2
28-Oct-07	2	2	2	2	3	4	5	4	3	4	2	2	A	A	3	2	5	13	14	6	4	5	6	8	4.6	14.0
29-Oct-07	7	12	6	3	5	6	7	5	5	3	3	A	7	4	2	7	2	5	6	5	2	2	2	1	4.7	11.9
30-Oct-07	1	1	2	2	2	2	3	3	3	2	A	3	2	1	2	2	2	2	2	2	2	2	2	2	2.0	3.4
31-Oct-07	2	2	2	2	2	2	2	3	A	A	3	2	2	1	2	2	2	2	3	2	2	2	2	2	1.9	3.4
Hourly Avg	4.6	3.8	3.4	3.7	3.9	5.8	6.0	7.6	6.5	4.8	5.4	5.5	3.7	3.7	3.3	5.0	6.3	6.5	8.6	6.6	5.3	4.9	4.4	4.3		
Hourly Max	12.0	11.9	8.7	9.8	10.6	32.0	35.4	27.5	28.3	17.3	22.6	49.0	16.6	15.4	17.8	24.8	34.8	18.5	26.1	18.5	20.2	18.9	13.8	10.7		

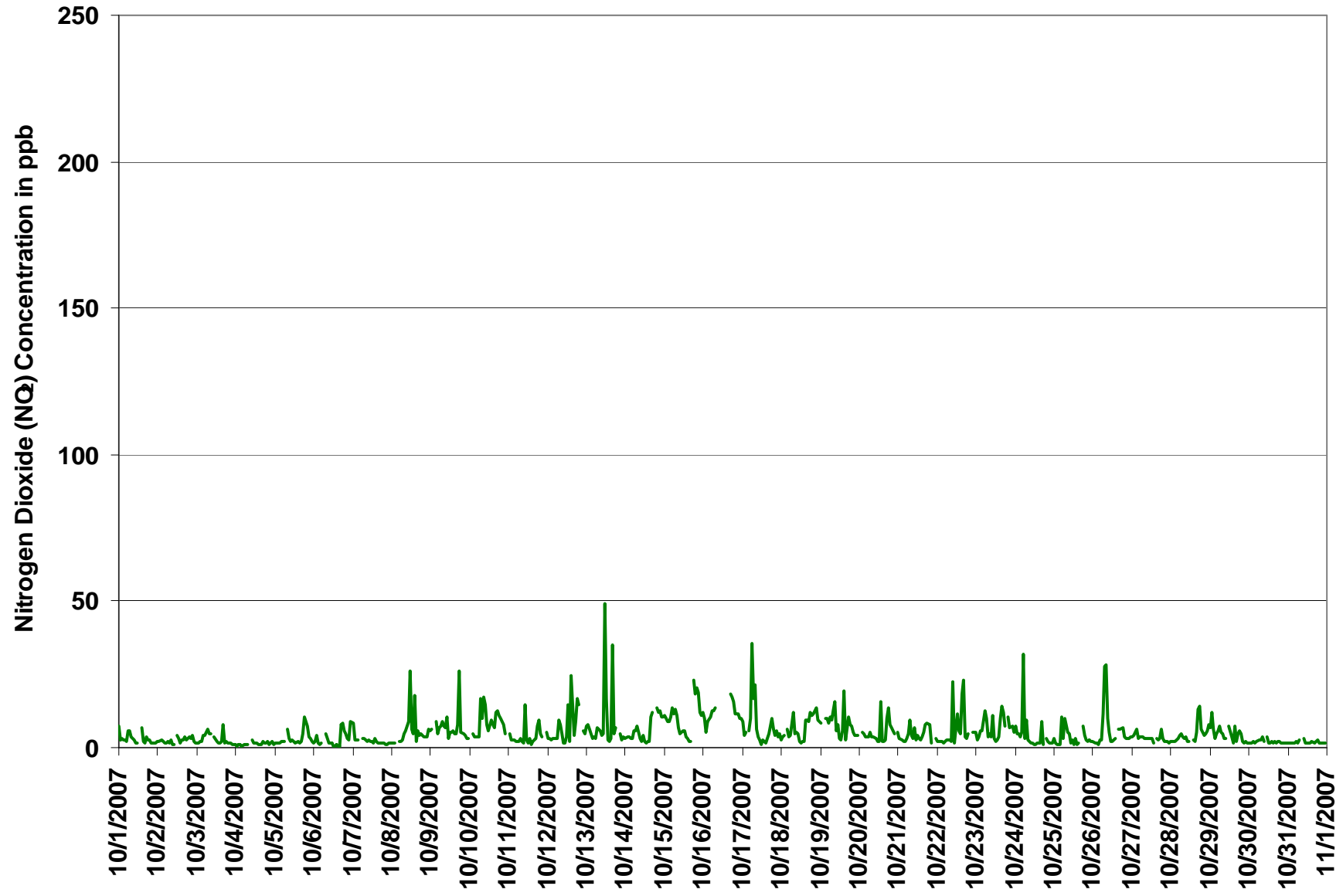
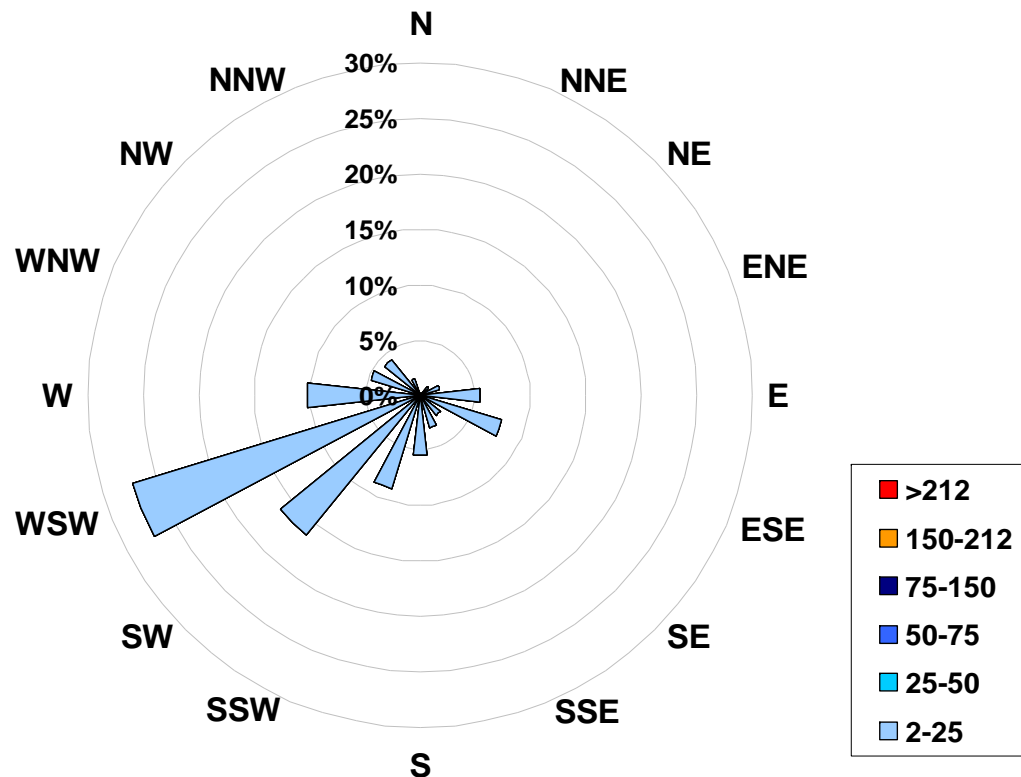


Figure 49. PASZA - Portable-Spirit River Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Portable-Spirit River Site for October 2007



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		688
25	to 50		0
50	to 75		0
75	to 150		0
150	to 212		0
	> 212		0
Total Non-Zero Values			688

PASZA - Portable-Spirit River Nitric Oxide Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

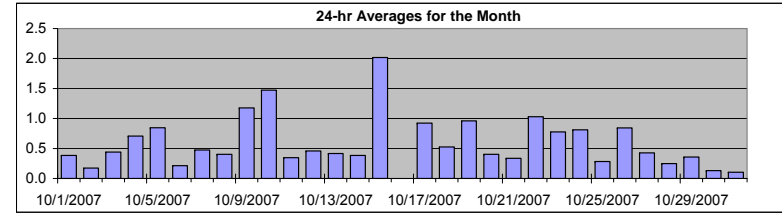
HOURLY AVERAGE TABLE

Nitric Oxide (NO)

Monitoring Dates: October 1, 2007 to November 1, 2007

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

Summary			
Maximum 1-hr Average:	13.7	ppb	22-Oct 16:00 17:00
Maximum 24-hr Average:	2.0	ppb	15-Oct



AIC Time:	49 hrs	Operational Time:	688 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	98.8%						
Percentile	99	95	75	50	25	5	1	Average	Median
	4.5	2.2	0.7	0.3	0.2	0.1	0.1	0.6 ppb	0.3 ppb

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum			
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00		
1-Oct-07	0	0	0	0	0	0	0	0	1	2	1	0	0	A	A	1	0	0	0	0	0	0	0	0	0	0	0	0.4	1.6
2-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
3-Oct-07	0	0	0	0	0	0	0	0	1	1	1	A	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0.4	1.4	
4-Oct-07	0	0	0	1	1	1	1	1	1	A	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9	
5-Oct-07	1	1	1	1	1	1	1	A	2	2	3	2	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0.8	2.7	
6-Oct-07	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.2	0.9	
7-Oct-07	0	0	0	0	A	A	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.3	
8-Oct-07	0	0	0	A	A	0	0	0	1	1	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.4
9-Oct-07	0	1	A	1	1	2	3	2	2	2	2	1	1	1	1	0	0	0	0	5	0	0	0	1	1	1	1.2	4.7	
10-Oct-07	A	A	1	1	1	1	1	3	1	3	3	2	1	2	2	2	2	2	4	1	1	1	1	0	A	1.5	4.3		
11-Oct-07	A	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	1	0	1	0	A	0	0.3	2.7		
12-Oct-07	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	3	0	0	0	1	1	A	A	0	0	0.5	2.6	
13-Oct-07	0	0	0	0	0	0	0	0	0	1	1	1	2	1	0	0	0	1	0	1	A	A	0	0	0	0	0.4	1.8	
14-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	1	1	1	1	1	1	0.4	0.9	
15-Oct-07	1	2	1	1	1	2	3	5	5	3	2	2	2	1	0	0	0	A	2	2	3	3	2	2	2	2.0	5.2		
16-Oct-07	2	1	0	1	0	1	2	1	C	C	C	C	A	M	M	M	A	2	4	2	2	1	1	1	1	N	3.9		
17-Oct-07	1	1	1	A	0	1	4	3	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	5.1		
18-Oct-07	0	0	0	A	0	0	0	1	1	1	1	1	0	0	0	0	1	1	0	0	1	1	1	1	0	0.5	1.5		
19-Oct-07	0	A	A	1	1	0	1	1	2	3	1	1	1	1	0	5	0	1	1	0	0	0	0	0	0	1.0	5.0		
20-Oct-07	A	A	0	0	0	0	0	1	0	1	1	0	0	1	0	0	0	0	0	1	0	0	0	0	A	0.4	1.1		
21-Oct-07	0	0	0	0	0	0	0	0	1	0	1	1	0	1	0	0	1	1	0	0	0	0	A	A	0	0.3	0.6		
22-Oct-07	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	2	14	0	0	0	A	A	0	0	1.0	13.7		
23-Oct-07	0	0	0	0	0	1	1	0	1	0	1	0	0	0	1	1	2	2	1	A	2	1	1	1	1	0.8	1.8		
24-Oct-07	2	1	1	1	1	8	0	0	0	0	0	0	0	0	0	0	0	1	0	A	0	0	0	0	0	0.8	8.4		
25-Oct-07	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	A	A	0	0	0	0	0	0	0	0.3	1.0		
26-Oct-07	0	0	0	0	1	0	0	3	4	2	1	0	0	1	1	A	1	1	1	1	1	1	0	1	0.8	3.6			
27-Oct-07	1	1	1	1	0	0	1	1	1	1	1	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0.4	0.9		
28-Oct-07	0	0	0	0	0	0	0	0	0	0	0	0	0	A	A	0	0	0	0	1	0	0	0	0	0	0.2	1.3		
29-Oct-07	0	1	0	0	0	0	1	0	0	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.1		
30-Oct-07	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3		
31-Oct-07	0	0	0	0	0	0	0	0	0	A	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2		
Hourly Avg	0.5	0.4	0.3	0.4	0.4	0.8	0.7	1.0	1.2	1.0	1.0	0.7	0.5	0.5	0.4	0.7	0.9	0.6	0.8	0.6	0.5	0.5	0.4	0.4	0.4				
Hourly Max	2.5	1.5	0.9	1.5	1.1	8.4	4.5	5.0	5.2	3.2	3.0	2.1	1.9	1.7	1.8	5.0	13.7	4.3	4.7	2.0	3.2	3.2	2.2	2.2					

PASZA - Portable-Spirit River Oxides of Nitrogen Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

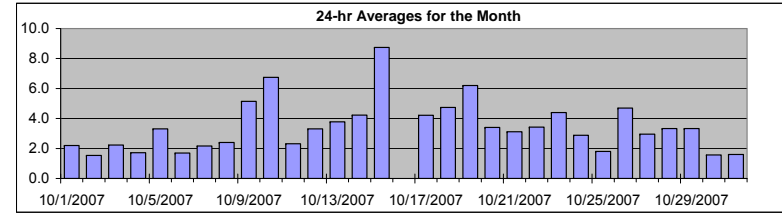
HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: October 1, 2007 to November 1, 2007

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

Summary			
Maximum 1-hr Average:	21.5	ppb	22-Oct 16:00 17:00
Maximum 24-hr Average:	8.7	ppb	15-Oct



AIC Time:	49 hrs	Operational Time:	688 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	98.8%						
Percentile	99	95	75	50	25	5	1	Average	Median
	13.2	10.1	4.3	2.6	1.6	1.1	0.7	3.6 ppb	2.6 ppb

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Oct-07	4	2	3	2	2	2	3	5	4	2	1	1	A	A	3	2	1	1	2	2	1	1	1	1	2.2	4.8
2-Oct-07	2	2	2	1	1	2	1	1	1	1	1	A	2	2	1	1	1	1	1	2	3	3	1	1	1.5	2.5
3-Oct-07	1	1	2	2	3	2	4	6	5	4	A	3	2	1	1	1	2	1	1	2	2	1	1	2.2	6.2	
4-Oct-07	1	1	1	1	1	1	1	1	A	A	3	2	2	2	2	2	2	2	2	2	2	2	2	2	1.7	2.8
5-Oct-07	2	2	2	2	2	3	3	A	6	5	5	3	3	2	1	1	2	3	9	8	4	3	3	2	3.3	8.7
6-Oct-07	1	2	2	1	1	1	A	3	2	1	1	1	1	0	1	1	1	1	2	3	4	2	2	4	1.7	4.0
7-Oct-07	3	2	2	2	A	A	3	3	3	3	3	3	3	2	2	2	2	1	2	2	1	1	1	1	2.2	3.4
8-Oct-07	1	1	1	A	A	2	2	2	3	2	5	3	2	1	3	1	1	2	3	3	3	3	3	4	2.4	5.1
9-Oct-07	3	4	A	7	4	6	8	8	6	5	5	4	4	4	4	4	4	6	13	4	4	4	4	4	5.1	13.1
10-Oct-07	A	A	5	4	5	5	4	9	5	8	9	6	5	6	6	7	8	12	10	9	8	6	4	A	6.7	12.3
11-Oct-07	A	4	3	2	2	2	2	2	1	2	5	1	1	1	1	1	1	1	1	4	5	4	A	4	2.3	5.5
12-Oct-07	3	3	2	3	3	3	2	5	4	2	1	1	1	1	2	1	5	2	3	10	10	A	A	4	3.3	10.4
13-Oct-07	5	7	4	4	3	3	3	4	4	4	4	8	5	2	2	2	6	3	4	A	A	3	2	3	3.8	8.0
14-Oct-07	3	3	3	3	3	4	5	4	4	2	1	1	1	1	1	1	3	7	A	12	10	8	8	8	4.2	12.0
15-Oct-07	8	9	5	7	10	11	11	12	13	8	6	7	6	4	2	2	2	A	11	13	16	15	12	11	8.7	16.4
16-Oct-07	12	9	4	7	7	12	12	9	C	C	C	C	A	M	M	M	A	13	16	12	11	10	8	8	N	16.0
17-Oct-07	6	4	4	A	5	6	13	10	9	4	2	2	1	1	1	1	1	3	6	5	4	4	3	3	4.2	12.9
18-Oct-07	2	3	3	A	4	3	4	6	4	5	3	1	1	1	1	2	3	6	10	9	9	11	10	7	4.7	10.8
19-Oct-07	6	A	A	8	9	7	9	8	11	12	6	6	3	3	3	12	2	5	6	6	4	4	4	4	6.2	11.9
20-Oct-07	A	A	4	4	3	3	3	3	3	3	3	2	2	3	2	2	2	3	8	5	6	4	3	A	3.4	8.2
21-Oct-07	4	3	2	2	2	3	4	4	4	3	3	2	3	3	2	3	4	6	5	4	2	A	A	2	3.1	5.5
22-Oct-07	2	2	2	2	2	2	2	2	2	2	4	1	3	2	2	6	21	3	2	3	A	A	4	3	3.4	21.5
23-Oct-07	3	3	3	4	5	8	7	3	3	3	4	2	2	3	3	4	5	7	5	A	7	6	6	5	4.4	8.3
24-Oct-07	7	5	5	3	4	14	3	2	2	2	2	1	1	1	1	1	2	1	A	2	2	2	1	1	2.9	14.2
25-Oct-07	2	1	1	1	1	3	2	3	2	2	1	1	1	1	1	1	A	A	5	2	2	2	2	2	1.8	5.3
26-Oct-07	2	1	1	1	2	2	4	18	18	9	4	2	2	3	3	A	6	6	6	4	3	3	3	4	4.7	18.4
27-Oct-07	4	4	5	4	3	3	4	4	4	4	4	4	2	1	A	3	2	2	2	3	2	2	2	2	3.0	5.2
28-Oct-07	2	2	2	2	2	3	3	3	2	2	2	2	A	A	2	2	3	7	11	4	3	3	4	6	3.3	11.0
29-Oct-07	5	9	4	3	4	5	6	4	4	3	4	A	3	2	1	2	2	2	5	3	2	1	1	1	3.3	9.2
30-Oct-07	1	1	2	2	2	2	2	2	2	2	A	2	1	1	1	1	1	1	1	2	1	1	2	1	1.6	2.3
31-Oct-07	2	2	2	1	2	2	2	2	A	A	3	2	2	1	1	1	1	2	2	2	2	2	2	2	1.6	2.5
Hourly Avg	3.5	3.2	2.8	3.1	3.3	4.2	4.4	5.0	4.7	3.7	3.4	2.7	2.3	2.1	1.9	2.6	3.2	3.8	5.7	4.9	4.2	3.9	3.6	3.5		
Hourly Max	11.7	9.2	5.3	8.0	9.8	14.2	12.9	17.7	18.4	11.9	9.4	8.0	6.2	6.3	6.5	11.7	21.5	12.9	16.0	12.6	16.4	14.6	12.2	10.8		

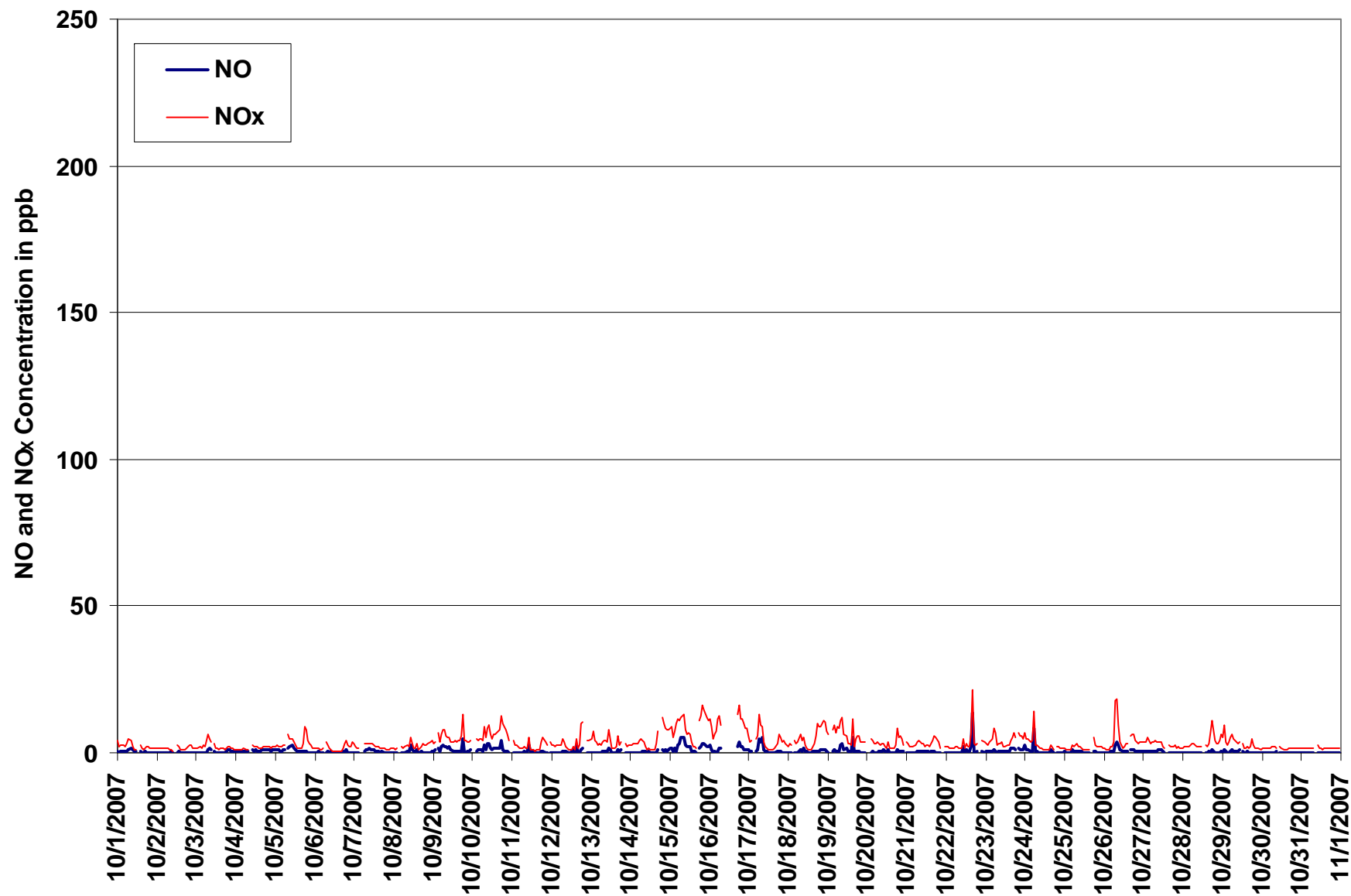


Figure 50. PASZA - Portable-Spirit River Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

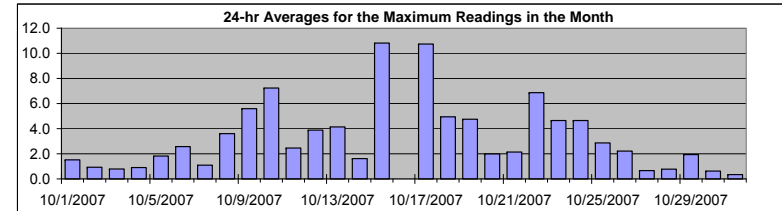
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	98.7	ppb	17-Oct	8:00 9:00
Maximum 24-hr Value:	10.8	ppb	15-Oct	



AIC Time:	49 hrs	Operational Time:	688 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	98.8%						
Percentile	99	95	75	50	25	5	1	Average	Median
	41.2	14.2	2.8	1.0	0.3	0.2	0.1	3.4 ppb	1.0 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Oct-07	0	0	1	1	1	1	4	5	2	3	2	2	A	A	6	0	0	3	1	2	0	0	0	0	1.5	6.2
2-Oct-07	0	0	0	0	0	0	0	1	3	1	1	A	0	7	0	1	1	2	1	2	0	1	0	0	0.9	6.6
3-Oct-07	0	0	0	0	0	0	1	3	2	3	A	1	0	0	0	1	0	1	1	1	1	1	1	0.8	2.8	
4-Oct-07	0	0	1	1	1	1	1	1	A	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.4	
5-Oct-07	1	1	1	1	1	2	2	A	2	3	3	4	1	1	1	1	5	2	9	0	0	0	0	1.8	8.7	
6-Oct-07	0	0	5	0	0	4	A	2	3	1	3	1	0	0	0	0	7	2	28	1	0	0	1	2.6	28.5	
7-Oct-07	0	0	0	1	A	A	1	1	1	2	2	2	1	1	1	0	0	10	0	0	0	0	0	1.1	9.5	
8-Oct-07	0	0	0	A	A	0	0	0	4	4	19	10	5	4	22	1	3	3	1	1	1	0	0	3.6	21.8	
9-Oct-07	2	4	A	5	6	10	9	6	5	8	3	3	3	2	1	1	4	45	0	1	1	1	2	5.6	44.9	
10-Oct-07	A	A	1	1	1	1	1	11	4	37	16	7	3	16	8	6	7	14	5	3	2	7	0	7.2	36.6	
11-Oct-07	A	0	0	0	0	0	1	3	2	1	25	3	1	3	0	2	2	1	3	5	1	0	A	2.5	24.8	
12-Oct-07	0	0	0	0	0	0	0	9	5	2	0	0	2	21	1	30	1	1	4	6	A	A	0	3.9	30.4	
13-Oct-07	1	0	0	0	0	0	0	3	2	4	3	17	14	0	1	1	23	1	18	A	A	1	0	4.2	23.2	
14-Oct-07	1	0	0	0	0	0	1	3	1	1	2	2	1	0	1	0	1	5	A	2	4	5	1	1.6	5.0	
15-Oct-07	8	3	4	11	2	9	17	62	43	4	2	3	4	1	1	0	0	A	9	16	26	14	4	10.8	61.8	
16-Oct-07	5	3	0	2	1	2	7	15	C	C	C	C	A	M	M	M	A	9	13	11	5	2	2	N	15.4	
17-Oct-07	3	1	4	A	1	8	41	52	99	12	4	2	0	2	0	4	3	3	2	2	0	1	1	2	10.7	98.7
18-Oct-07	0	0	0	A	0	0	0	16	2	3	12	3	1	2	2	11	7	6	1	4	22	9	10	2	4.9	22.4
19-Oct-07	1	A	A	3	2	2	3	4	11	12	2	4	1	1	1	20	0	22	13	2	1	0	0	4.8	21.7	
20-Oct-07	A	A	0	0	0	0	1	5	2	1	1	1	0	12	1	0	0	3	8	2	1	0	2	2.0	11.7	
21-Oct-07	0	0	0	0	0	0	2	11	1	1	3	1	6	2	1	1	3	11	0	1	0	A	A	0	2.1	11.5
22-Oct-07	0	0	0	0	0	0	1	1	1	0	29	0	8	8	6	22	64	1	0	6	A	A	1	0	6.9	64.1
23-Oct-07	1	0	0	0	0	10	3	1	6	1	5	1	1	2	3	12	22	11	7	A	12	3	3	2	4.7	22.1
24-Oct-07	8	5	1	1	3	66	1	2	1	0	1	0	1	1	0	4	7	0	A	1	0	1	0	4.7	66.4	
25-Oct-07	7	0	0	0	0	18	2	11	5	4	0	3	1	2	0	0	A	A	1	3	1	0	3	0	2.9	18.0
26-Oct-07	0	0	1	0	3	2	5	8	12	4	2	1	1	1	1	A	2	3	1	1	1	1	1	2.2	11.8	
27-Oct-07	1	1	1	1	1	1	1	1	1	1	1	1	1	0	A	0	0	0	1	0	1	0	0	0	0.7	1.1
28-Oct-07	0	0	0	0	0	0	1	0	0	2	0	0	A	A	0	0	2	1	4	0	1	1	0	1	0.8	3.7
29-Oct-07	1	3	0	0	0	1	16	2	1	2	1	A	2	2	0	7	0	2	1	2	1	0	1	0	1.9	15.6
30-Oct-07	0	0	0	0	0	0	0	3	2	1	A	1	0	0	1	0	1	1	1	1	0	0	0	0	0.6	3.2
31-Oct-07	0	0	0	0	0	0	0	1	A	A	1	0	0	0	1	1	0	1	0	0	0	0	0	0	0.4	1.1
Hourly Avg	1.5	0.9	0.8	1.1	0.9	4.7	4.1	8.1	7.8	4.1	5.3	2.6	2.1	3.4	2.2	4.5	5.3	4.5	5.1	3.9	3.1	1.9	1.2	1.1		
Hourly Max	8.4	5.1	5.2	11.1	6.1	66.4	41.0	61.8	98.7	36.6	29.1	16.9	14.0	21.0	21.8	30.4	64.1	21.7	44.9	28.5	26.5	14.4	9.8	5.9		

Station: Portable-Spirit River
 Station Owner: PASZA

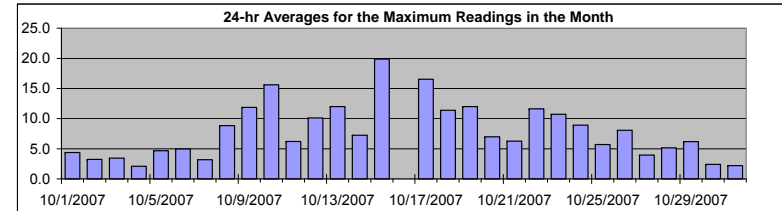
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	109.8	ppb	17-Oct	8:00 9:00
Maximum 24-hr Value:	19.9	ppb	15-Oct	



AIC Time:	49 hrs	Operational Time:	688 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	98.8%						
Percentile	99	95	75	50	25	5	1	Average	Median
	57.0	26.0	8.9	4.3	2.5	1.6	1.2	8.0 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	23:00 0:00		
1-Oct-07	8	3	4	3	3	3	9	10	5	5	3	4	A	A	13	2	2	7	3	4	2	2	2	2	4.4	13.0
2-Oct-07	2	2	3	2	2	2	2	2	5	2	2	A	4	9	2	3	3	5	4	6	3	5	2	2	3.2	9.0
3-Oct-07	2	2	2	2	4	4	6	8	7	7	A	4	2	2	2	2	9	2	2	3	2	2	2	1	3.5	8.8
4-Oct-07	1	1	1	2	2	2	2	2	A	A	3	3	2	2	2	2	3	2	2	3	2	3	2	2	2.1	3.4
5-Oct-07	3	3	2	2	3	3	4	A	8	6	5	6	3	3	3	2	8	11	13	8	4	3	2	4.7	13.4	
6-Oct-07	2	2	9	2	1	3	A	6	5	2	3	2	1	1	1	1	14	10	26	6	3	3	10	5.0	25.6	
7-Oct-07	8	3	3	3	A	A	4	4	4	4	4	3	3	3	4	3	2	7	2	2	1	1	2	1	3.2	8.3
8-Oct-07	1	2	2	A	A	2	2	3	8	10	25	34	12	9	37	3	9	7	5	5	4	4	4	7	8.8	37.2
9-Oct-07	7	10	A	13	9	15	15	13	9	12	19	6	8	8	6	5	11	70	6	6	6	4	4	4	11.9	70.5
10-Oct-07	A	A	5	5	5	5	5	27	15	54	29	14	9	25	16	13	18	26	16	13	10	13	5	A	15.6	53.5
11-Oct-07	A	5	3	3	2	2	3	6	4	3	39	4	2	6	1	4	4	4	10	14	6	4	A	6	6.2	39.2
12-Oct-07	4	3	3	3	3	3	3	19	12	7	2	2	6	36	2	52	5	9	19	19	A	A	6	5	10.1	52.1
13-Oct-07	8	8	6	5	3	4	4	9	7	7	7	62	31	3	2	4	53	5	23	A	A	5	3	5	12.0	62.1
14-Oct-07	5	4	4	3	4	6	7	10	6	4	4	6	3	2	3	2	11	15	A	14	14	15	11	14	7.2	15.0
15-Oct-07	19	13	13	18	12	21	24	75	47	10	7	9	10	4	4	3	2	A	31	35	46	26	14	15	19.9	74.6
16-Oct-07	15	13	5	10	11	14	20	23	C	C	C	C	A	M	M	M	A	27	30	23	16	13	11	11	N	29.6
17-Oct-07	11	5	9	A	6	16	56	65	110	19	7	5	1	5	2	6	8	8	12	7	4	6	5	6	16.5	109.8
18-Oct-07	3	4	4	A	6	4	4	26	6	8	16	5	2	3	3	20	16	14	13	15	33	22	23	11	11.4	32.7
19-Oct-07	10	A	A	10	12	9	12	13	19	28	7	11	4	3	7	38	3	32	17	9	6	5	4	4	12.0	37.7
20-Oct-07	A	A	5	5	4	4	5	10	5	4	5	3	2	27	3	2	3	13	17	9	8	6	7	A	7.0	27.1
21-Oct-07	6	3	3	2	2	3	6	21	5	4	9	4	10	4	4	4	6	19	9	9	2	A	A	3	6.3	20.6
22-Oct-07	2	2	2	2	2	2	3	4	3	2	35	2	20	10	11	40	84	5	3	10	A	A	6	6	11.6	83.9
23-Oct-07	6	3	4	6	6	22	12	4	8	5	16	4	3	4	6	22	32	23	15	A	20	9	9	7	10.7	31.8
24-Oct-07	15	10	6	4	8	98	4	12	4	2	2	2	2	2	2	4	16	1	A	4	2	2	2	2	8.9	98.3
25-Oct-07	10	2	1	1	1	22	4	20	10	9	2	5	1	5	1	2	A	A	9	5	4	2	6	2	5.7	21.7
26-Oct-07	2	2	2	1	6	4	17	35	36	14	7	3	3	3	4	A	8	9	8	5	4	4	4	4	8.1	36.2
27-Oct-07	5	5	6	7	4	4	4	5	4	4	4	4	4	2	A	3	3	4	7	4	3	2	2	2	3.9	7.0
28-Oct-07	2	2	2	2	3	4	6	4	4	6	2	3	A	A	3	2	6	14	17	7	4	5	6	8	5.2	16.9
29-Oct-07	7	14	7	4	5	6	19	7	5	5	4	A	9	6	2	14	2	5	6	6	3	2	3	1	6.2	18.7
30-Oct-07	2	2	2	2	2	3	4	5	2	A	4	2	1	3	2	3	2	3	3	2	2	2	2	2	2.4	5.3
31-Oct-07	2	2	2	2	2	2	2	3	A	A	4	2	2	1	2	3	2	3	3	2	2	2	2	2	2.2	4.2
Hourly Avg	5.9	4.6	4.1	4.5	4.6	9.8	8.9	15.0	13.1	8.7	9.7	7.7	5.7	6.8	5.4	9.2	11.0	10.4	13.0	9.6	8.0	6.2	5.4	5.1		
Hourly Max	19.3	14.1	12.6	17.9	12.4	98.3	56.2	74.6	109.8	53.5	39.2	62.1	30.5	35.7	37.2	52.1	83.9	31.8	70.5	34.7	46.5	25.9	23.4	15.1		

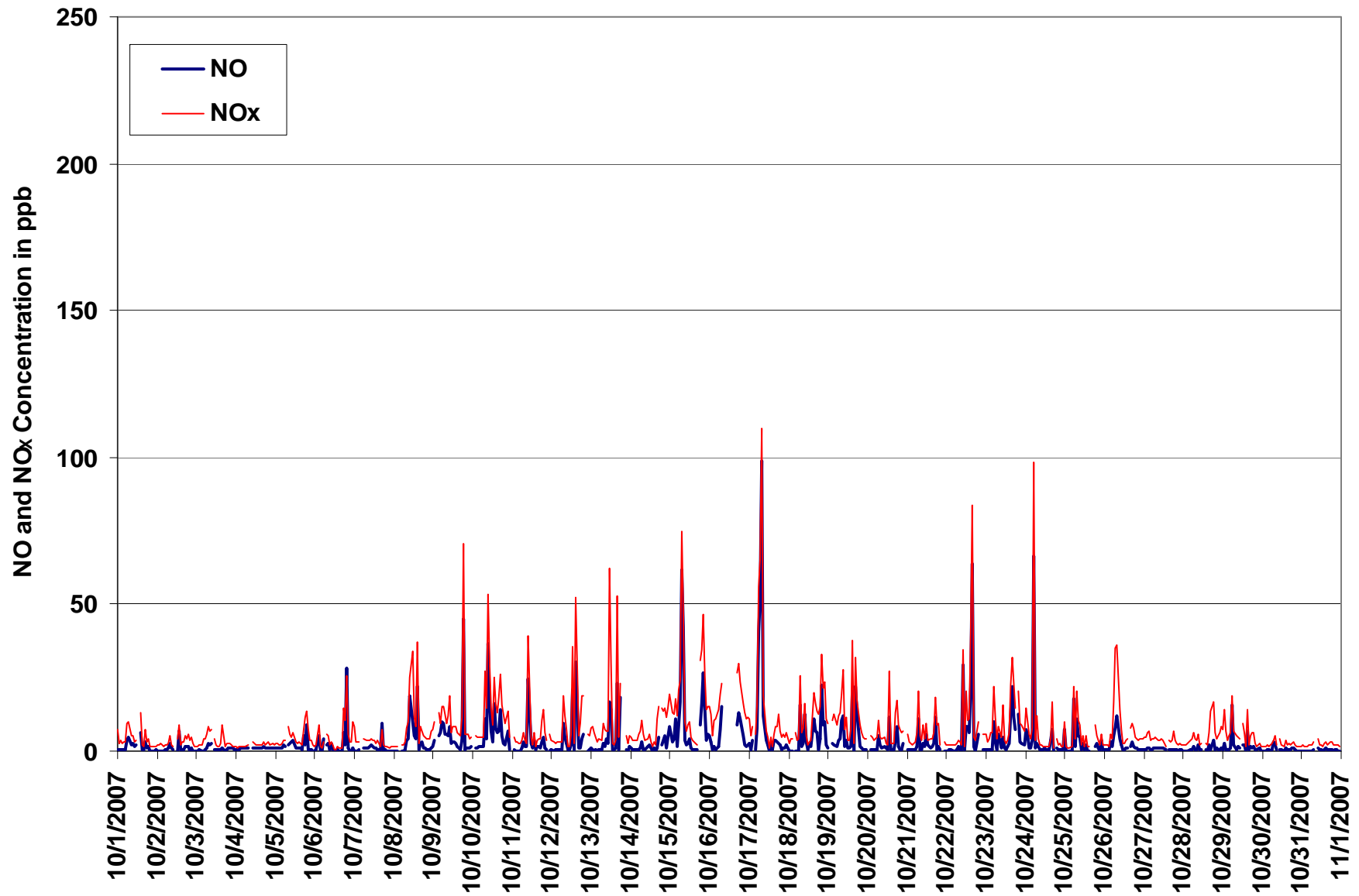


Figure 51. PASZA - Portable-Spirit River Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

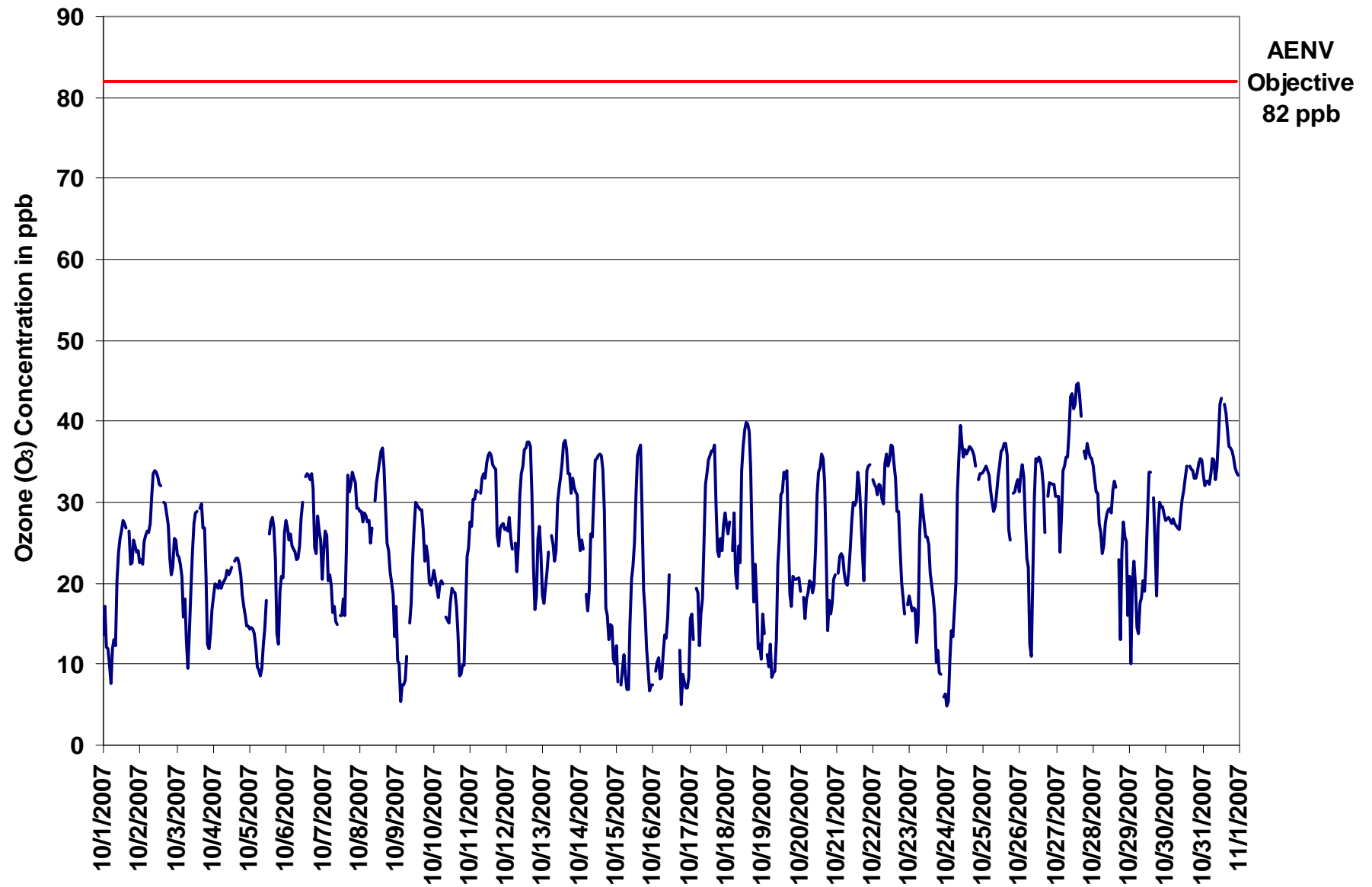


Figure 52. PASZA - Portable-Spirit River Ozone 1-hr Average Monthly Trend

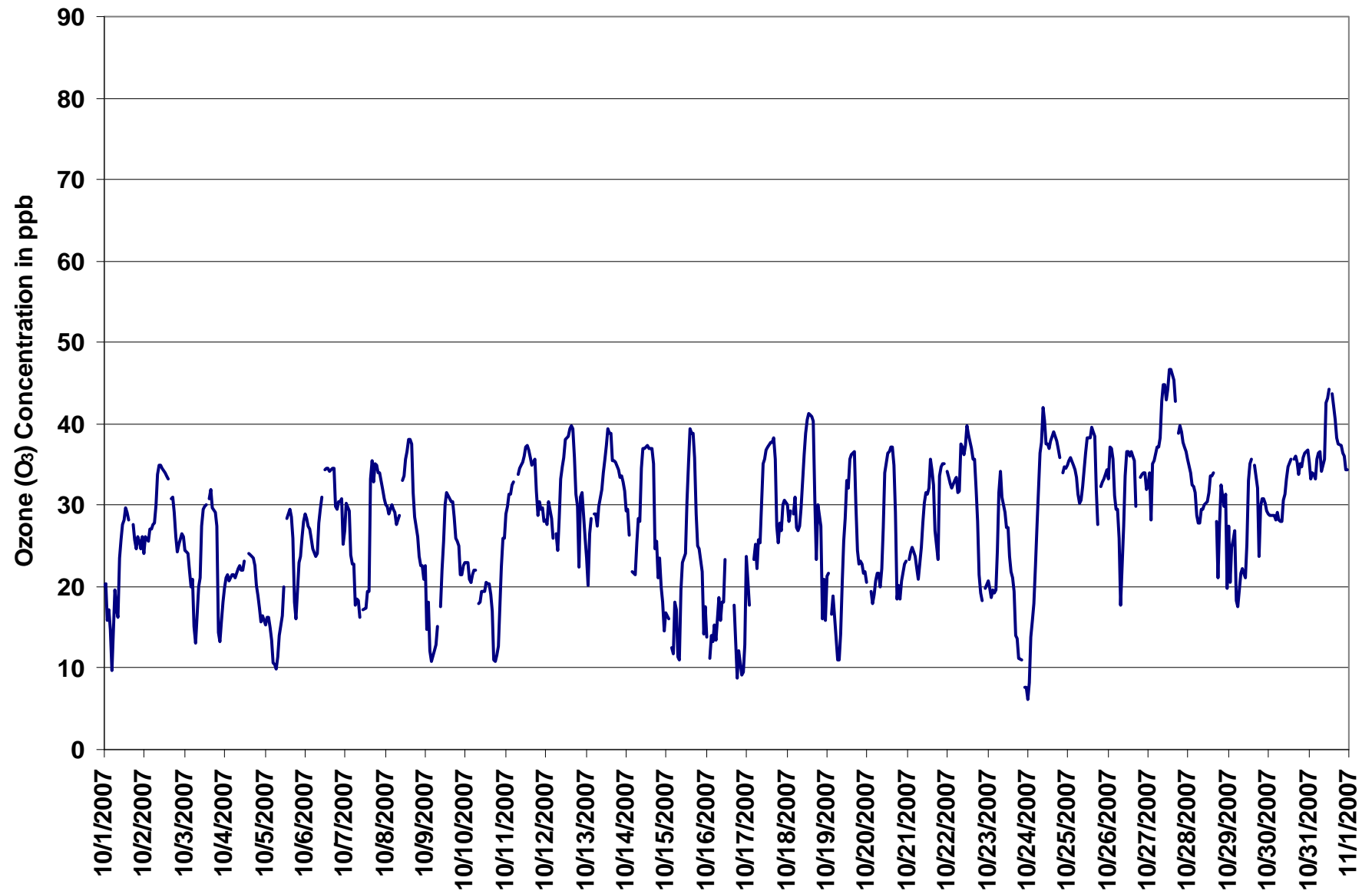
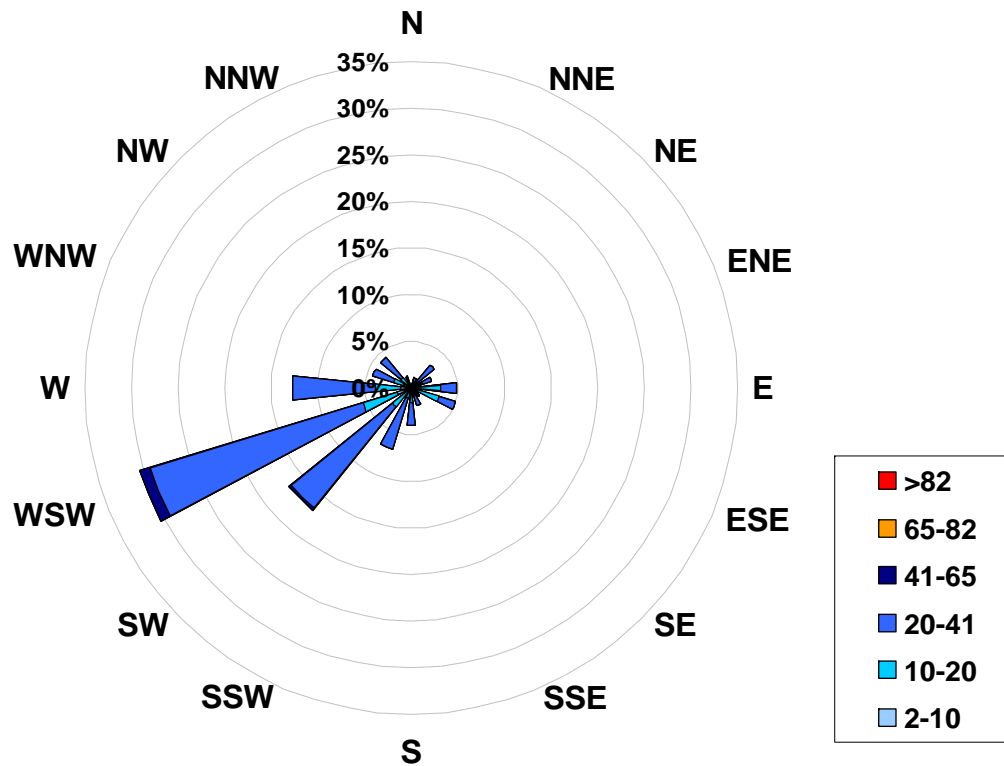


Figure 53. PASZA - Portable-Spirit River Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Portable-Spirit River Site for October 2007



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	< 10		45
10	to 20		159
20	to 41		493
41	to 65		10
65	to 82		0
	> 82		0
Total Non-Zero Values			707

PASZA - Portable-Spirit River Ozone Eight Hour Average Summary

Station: Portable-Spirit River
 Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

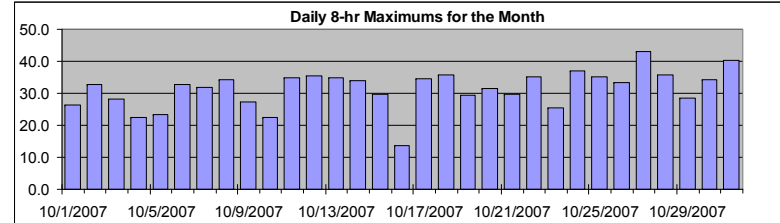
Monitoring Dates: October 1, 2007 to November 1, 2007

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

Summary

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	42.9 ppb 27-Oct 16:00 17:00

Percentile	99	95	75	50	25	5	1
	40.3	35.5	31.1	25.7	20.0	11.3	8.6



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Maximum
1-Oct-07	23	22	20	18	16	14	13	12	12	12	14	16	18	20	22	24	25	26	26	26	26	25	25	24	26.3
2-Oct-07	24	24	24	24	24	24	24	25	26	27	29	30	31	31	32	33	33	32	31	30	28	26	26	26	32.8
3-Oct-07	25	24	23	23	22	22	20	18	17	17	17	18	19	21	22	24	27	28	28	27	25	23	21	20	28.2
4-Oct-07	18	18	17	17	18	18	19	20	20	20	20	21	21	21	21	22	22	22	22	22	21	21	20	18	22.3
5-Oct-07	17	16	16	15	14	14	13	12	11	11	11	12	12	14	17	19	22	23	23	23	22	21	21	20	23.4
6-Oct-07	20	21	22	24	25	25	25	25	25	25	25	25	26	28	29	31	32	33	32	31	30	29	28	27	32.6
7-Oct-07	26	25	25	25	24	23	22	21	20	19	18	17	17	16	16	17	20	22	23	26	28	30	31	32	31.8
8-Oct-07	31	31	30	30	29	29	28	28	28	27	28	28	29	30	31	33	34	33	33	32	30	28	26	23	34.1
9-Oct-07	21	19	17	15	13	11	10	10	9	9	10	13	16	19	22	25	25	27	27	27	27	26	24	23	27.4
10-Oct-07	22	22	21	20	20	20	20	20	19	18	18	18	18	17	17	17	17	16	15	14	13	13	13	14	22.4
11-Oct-07	16	18	21	24	26	28	29	30	31	32	32	33	33	34	34	35	35	35	34	33	32	30	29	28	34.8
12-Oct-07	27	26	27	27	27	26	26	25	25	26	26	28	29	30	32	34	35	36	34	32	30	28	27	25	35.5
13-Oct-07	23	21	21	22	22	23	22	22	23	25	26	27	28	30	31	33	34	35	35	35	34	34	33	31	34.8
14-Oct-07	30	29	28	28	26	24	22	22	22	23	25	26	28	30	33	34	34	32	30	27	24	22	19	16	34.0
15-Oct-07	14	12	12	11	10	10	10	9	8	9	11	13	15	17	20	24	28	30	29	29	27	24	21	17	29.6
16-Oct-07	14	11	10	9	9	9	9	9	10	11	11	13	13	N	N	N	N	N	N	N	N	N	N	8	13.5
17-Oct-07	9	9	10	11	12	14	15	16	16	18	20	22	24	26	29	32	34	35	34	32	31	30	28	28	34.6
18-Oct-07	26	26	26	27	26	27	26	25	24	25	26	28	30	32	34	36	36	34	32	29	26	23	19		35.9
19-Oct-07	17	15	15	13	12	12	12	12	10	10	12	14	16	19	22	25	28	29	29	28	27	25	24	22	29.5
20-Oct-07	20	20	20	19	19	19	19	19	19	19	19	21	23	25	27	29	31	31	30	28	26	24	22	20	31.4
21-Oct-07	19	18	20	20	22	22	22	22	22	22	23	24	24	25	27	29	30	30	29	28	29	29	29	29	29.6
22-Oct-07	30	31	32	33	33	32	32	32	32	32	33	33	34	34	35	35	35	34	32	30	28	26	24	22	35.3
23-Oct-07	21	19	18	17	17	17	16	17	19	21	22	23	24	25	25	24	23	20	19	16	14	13	11	10	25.4
24-Oct-07	8	7	7	8	9	10	11	15	18	23	26	29	32	34	36	37	37	36	36	36	36	36	35	35	36.9
25-Oct-07	34	34	34	34	34	34	33	32	32	32	31	31	32	33	33	34	35	35	34	34	33	32	31	31	35.2
26-Oct-07	30	31	32	33	32	31	30	27	25	23	23	23	24	25	27	30	32	33	33	33	32	32	31	31	33.4
27-Oct-07	31	31	30	30	30	31	31	32	33	34	37	38	39	41	42	43	43	43	42	41	40	39	38	37	42.9
28-Oct-07	36	35	35	34	33	32	30	29	28	28	27	27	27	28	29	30	30	29	27	26	26	25	24	22	35.8
29-Oct-07	22	20	21	21	20	19	17	17	17	18	18	18	19	22	24	25	27	28	28	28	28	28	27	27	28.4
30-Oct-07	27	27	29	29	28	28	28	28	28	28	28	28	29	30	30	31	32	33	33	34	34	34	34	34	34.2
31-Oct-07	34	34	34	34	34	33	33	33	33	34	34	35	37	37	38	39	40	40	40	39	38	38	37	36	40.3

Hourly Max	35.8	35.5	34.8	34.3	33.7	33.5	33.4	33.4	33.3	34.2	36.6	38.3	39.3	40.6	41.7	42.6	42.9	42.9	41.9	41.0	40.3	39.2	37.8	36.7
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PASZA - Portable-Spirit River Vector Wind Speed Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

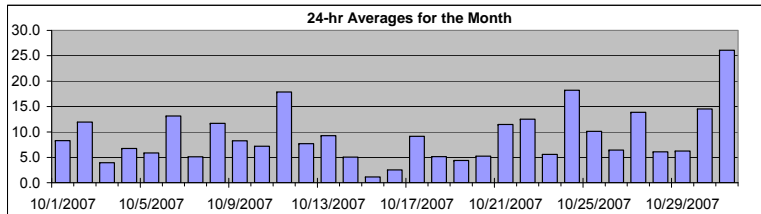
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	39.1	km/hr	31-Oct	15:00 16:00
Maximum 24-hr Value:	26.1	km/hr	31-Oct	



Calm Time:	0 hrs		0% calms		Operational Time:		740 hrs	
Calibration Time:	0 hrs		AMD Operational Uptime:				99.5%	
Percentile	99	95	75	50	25	5	1	AverageV
	31.3	23.8	13.1	9.2	5.2	2.1	1.1	52.2 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Oct-07	4	3	2	1	1	3	4	3	5	12	12	9	8	9	8	6	17	17	13	11	21	15	15	12	8.3	21.5
2-Oct-07	6	3	2	13	16	17	16	20	20	25	24	18	13	11	10	9	10	9	9	10	7	6	12	9	11.9	24.6
3-Oct-07	6	7	6	5	4	4	3	3	4	3	5	3	3	5	6	6	4	13	3	11	15	14	16	15	4.0	15.9
4-Oct-07	11	9	7	6	6	7	11	11	10	10	9	9	7	7	6	5	4	6	6	4	5	5	5	4	6.7	11.3
5-Oct-07	5	6	6	6	7	2	2	3	10	9	8	7	2	8	15	16	12	6	10	7	8	10	6	11	5.9	16.3
6-Oct-07	12	7	7	11	20	17	17	16	20	27	26	22	23	23	13	9	9	6	7	11	11	7	6	3	13.1	27.3
7-Oct-07	8	10	10	8	10	8	8	10	5	8	9	9	7	6	7	10	14	18	16	18	29	23	15	19	5.1	29.5
8-Oct-07	18	18	16	17	13	12	12	13	12	14	18	13	13	11	10	10	12	9	4	6	11	9	7	5	11.7	18.4
9-Oct-07	1	2	4	3	4	2	2	1	1	5	10	21	19	19	14	16	20	19	19	17	15	8	7	10	8.2	20.8
10-Oct-07	10	13	8	11	7	9	8	11	7	8	6	9	11	9	10	8	6	9	7	9	9	14	13	14	7.2	14.4
11-Oct-07	14	13	15	17	25	22	19	20	24	26	22	24	24	28	21	23	14	12	10	11	12	14	13	13	17.9	28.2
12-Oct-07	13	12	9	9	11	14	14	11	7	6	6	7	8	5	5	5	3	2	4	8	11	10	8	8	7.7	13.9
13-Oct-07	3	2	2	4	9	8	4	6	10	12	12	13	16	17	16	16	11	11	13	13	11	10	9	9	9.3	16.6
14-Oct-07	12	8	13	10	6	4	2	8	8	10	16	17	9	6	6	2	1	3	5	5	3	6	3	1	5.1	17.5
15-Oct-07	5	6	4	3	2	1	4	6	3	2	2	3	3	2	5	7	7	2	6	3	5	5	5	3	1.1	7.4
16-Oct-07	5	6	6	4	3	4	4	3	3	3	3	7	5	M	M	M	M	2	2	2	4	2	1	2	2.5	6.7
17-Oct-07	4	4	4	3	2	2	2	3	1	10	13	18	21	18	13	12	18	11	9	12	11	10	11	9	9.1	21.1
18-Oct-07	9	7	9	9	5	3	1	2	8	3	12	11	4	7	8	7	8	9	7	6	1	6	5	4	5.1	11.5
19-Oct-07	5	3	4	3	3	3	3	2	2	3	3	5	7	8	10	6	8	2	6	8	5	7	4	4	4.4	10.1
20-Oct-07	4	7	4	4	3	6	7	3	4	4	4	6	4	5	6	9	7	2	7	9	10	10	11	11	5.2	10.8
21-Oct-07	11	8	10	8	8	7	9	10	10	9	12	13	13	11	12	15	14	8	5	12	26	26	33	32	11.5	33.1
22-Oct-07	18	16	15	15	21	17	11	12	15	14	17	13	9	10	19	15	16	10	12	14	13	5	2	2	12.5	21.0
23-Oct-07	3	3	3	3	4	2	6	13	14	12	9	13	13	14	15	12	9	6	10	8	7	4	5	6	5.6	14.8
24-Oct-07	4	1	11	10	9	10	16	19	24	33	32	26	29	24	20	18	23	20	22	24	25	19	19	17	18.2	33.4
25-Oct-07	13	13	10	12	12	14	13	13	13	11	9	10	9	9	9	8	5	9	10	10	12	10	7	8	10.1	14.5
26-Oct-07	17	17	7	14	5	3	3	4	5	7	8	10	12	12	10	14	13	11	9	11	11	11	16	13	6.4	17.1
27-Oct-07	8	11	7	10	10	14	15	13	17	24	23	20	23	25	22	17	15	11	5	8	10	12	13	12	13.9	24.5
28-Oct-07	12	16	13	10	9	4	6	10	10	9	3	4	3	4	2	2	2	3	5	8	7	2	2	3	6.1	15.9
29-Oct-07	4	3	4	3	1	4	4	5	2	13	4	7	7	10	7	5	16	5	7	12	13	12	10	9	6.2	16.1
30-Oct-07	9	9	10	9	7	8	12	12	11	12	12	12	13	13	11	12	17	23	27	21	19	22	22	26	14.5	27.4
31-Oct-07	21	19	22	24	21	17	24	29	30	26	25	28	28	36	36	39	26	22	28	33	30	22	23	18	26.1	39.1
1-hr Vector	5.2	5.4	5.3	5.6	6.0	5.8	6.5	6.7	7.8	9.2	8.5	7.2	6.6	7.3	7.2	6.9	6.7	5.5	6.6	8.2	9.1	8.6	8.2	7.3		
Hourly Max	21.0	19.5	21.8	23.8	24.6	21.9	23.9	29.1	30.5	33.4	32.2	28.2	29.1	35.8	35.9	39.1	26.2	22.8	27.8	33.2	29.9	26.5	33.1	31.9		

PASZA - Portable-Spirit River Wind Direction Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	740 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.5%				
Percentile	99	95	75	50	25	5	1	Average
	328.5	307.8	257.4	239.3	196.9	59.8	27.3	222 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
1-Oct-07	221	238	268	244	302	111	173	238	247	245	253	259	268	257	266	294	251	245	228	215	230	215	224	213	238	WSW
2-Oct-07	227	224	207	213	216	223	237	240	242	244	251	258	261	268	272	281	269	263	255	254	258	270	253	259	247	WSW
3-Oct-07	261	261	263	275	278	291	308	256	324	278	317	67	43	57	16	356	28	33	34	50	53	57	54	60	22	NNE
4-Oct-07	72	72	48	41	43	19	15	27	36	37	38	37	45	72	43	39	67	42	52	48	103	92	97	80	49	NE
5-Oct-07	82	102	102	101	123	101	23	102	202	209	203	218	282	208	205	199	198	196	182	230	224	204	203	201	192	SSW
6-Oct-07	204	217	177	215	231	227	233	239	234	243	246	253	250	251	263	267	270	268	249	240	230	193	201	177	238	WSW
7-Oct-07	166	164	147	109	88	87	101	123	83	75	94	99	94	66	315	256	233	230	236	228	240	244	240	229	200	SSW
8-Oct-07	223	232	237	238	226	227	221	237	238	250	251	257	254	255	255	251	244	218	246	261	237	249	251	249	241	WSW
9-Oct-07	84	342	280	318	318	290	251	125	79	103	107	105	106	111	115	113	109	117	107	98	95	58	50	46	100	E
10-Oct-07	69	92	93	98	84	79	104	108	72	99	109	108	114	111	121	134	109	114	138	150	150	194	214	222	120	ESE
11-Oct-07	224	230	222	223	228	228	229	236	242	249	252	248	249	246	251	249	259	257	236	235	225	225	224	225	239	WSW
12-Oct-07	231	241	256	255	252	244	240	246	257	268	278	273	264	286	270	284	286	296	226	216	221	217	211	234	247	WSW
13-Oct-07	322	58	97	230	221	209	197	169	183	194	194	187	186	230	222	219	215	210	223	220	221	236	226	165	210	SSW
14-Oct-07	145	180	166	146	131	154	247	227	201	237	246	245	255	270	278	304	307	147	189	177	261	247	253	250	214	SSW
15-Oct-07	259	258	288	253	166	227	295	269	291	313	94	98	103	53	61	75	55	82	319	292	236	262	240	250	285	WNW
16-Oct-07	245	264	287	283	284	261	271	26	22	279	316	344	13	M	M	M	M	219	238	248	218	274	268	231	289	WNW
17-Oct-07	237	244	246	248	182	212	240	266	340	237	244	243	246	247	253	251	243	241	234	229	238	241	238	243	243	WSW
18-Oct-07	240	233	236	234	221	259	243	106	223	309	224	218	207	192	187	183	134	128	195	235	93	252	258	293	215	SW
19-Oct-07	339	265	277	274	283	239	280	288	249	312	328	319	324	324	335	311	325	294	252	253	264	258	270	271	294	WNW
20-Oct-07	269	257	272	265	277	262	261	277	270	282	300	315	304	318	321	334	325	286	229	229	235	251	252	251	271	W
21-Oct-07	256	257	254	258	257	251	231	224	231	224	209	188	170	152	184	192	186	145	104	229	231	233	239	236	220	SW
22-Oct-07	227	223	223	220	239	234	207	208	248	253	252	254	273	261	244	248	242	228	210	226	228	248	308	281	236	SW
23-Oct-07	278	268	264	257	238	231	177	189	185	153	108	89	86	87	96	105	117	101	106	79	80	116	122	100	119	ESE
24-Oct-07	59	329	186	204	241	265	242	243	238	248	246	253	252	255	257	259	255	256	255	251	246	252	253	255	249	WSW
25-Oct-07	258	261	270	262	261	254	255	255	256	259	278	283	293	295	296	297	290	241	246	256	252	258	268	289	266	W
26-Oct-07	322	327	303	323	314	313	258	181	179	169	151	191	192	218	226	200	200	194	213	217	213	211	223	225	227	SW
27-Oct-07	214	201	205	193	205	216	229	240	249	245	246	252	245	247	240	252	248	242	261	233	251	257	258	260	240	WSW
28-Oct-07	262	255	254	255	250	252	242	244	254	253	273	268	308	266	272	261	240	231	232	236	223	256	218	172	250	WSW
29-Oct-07	194	237	235	245	113	152	183	202	253	235	246	263	264	262	277	281	322	275	246	251	254	257	261	264	255	WSW
30-Oct-07	261	262	261	258	264	262	255	255	256	258	260	259	257	258	261	258	250	247	241	250	253	242	239	242	252	WSW
31-Oct-07	247	251	248	239	238	233	233	232	231	230	237	234	231	242	243	241	247	248	236	235	243	246	250	253	240	WSW
Hourly Avg	239	241	234	234	233	234	234	230	236	240	242	241	241	243	247	242	241	229	225	231	232	236	239	237		

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

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	740 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	99.5%			
Percentile	99	95	75	50	25	5	1
	78.7	52.0	18.6	9.9	5.9	3.4	2.7

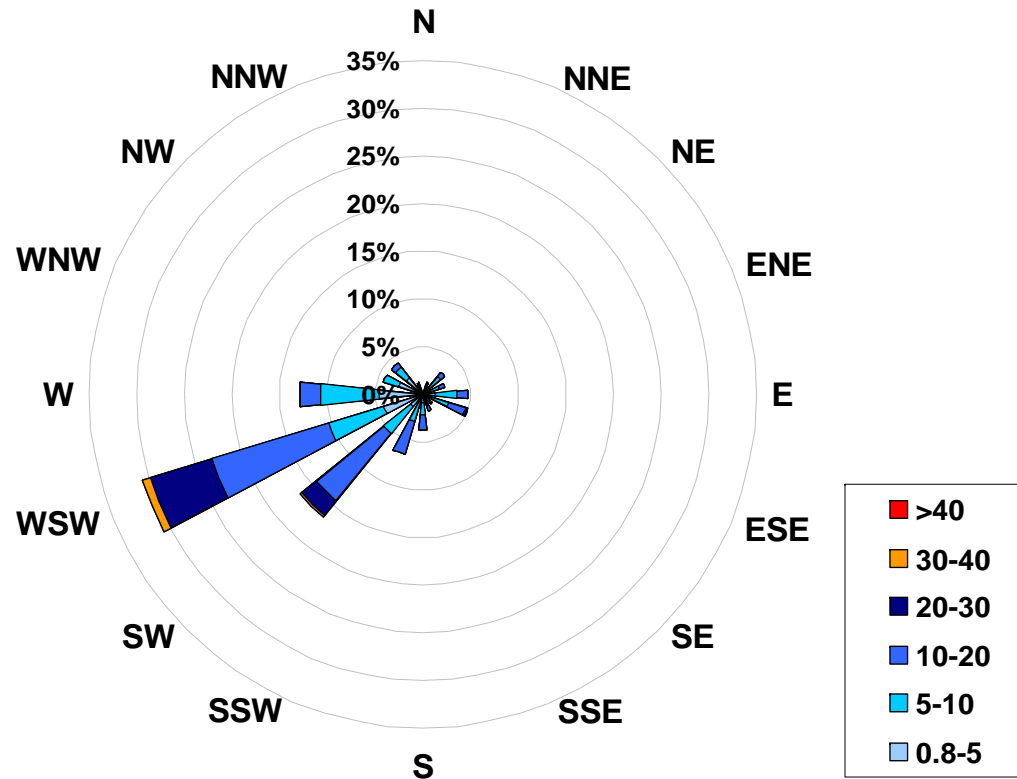
Status Flag Characters

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

Day	Mountain Standard Time																								Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	
1-Oct-07	28	10	38	72	61	22	30	28	20	7	11	13	17	13	32	24	16	6	9	6	4	8	4	8	72.1
2-Oct-07	9	55	65	6	5	9	11	4	5	6	6	10	16	12	16	13	9	9	6	4	12	32	5	5	65.1
3-Oct-07	6	5	6	10	12	32	15	29	30	29	30	47	44	40	35	25	22	25	82	8	5	5	5	5	81.7
4-Oct-07	6	7	7	8	6	10	9	6	7	9	13	14	21	22	25	28	22	13	9	14	9	6	10	26	28.0
5-Oct-07	13	9	6	10	7	79	41	26	13	17	24	24	60	36	19	12	11	5	18	12	27	11	15	4	79.1
6-Oct-07	10	13	17	9	6	5	3	6	6	4	7	7	8	7	12	13	8	13	9	13	11	24	9	40	40.3
7-Oct-07	12	18	14	11	3	4	9	6	40	16	14	11	16	26	38	21	10	5	9	7	3	4	6	3	40.0
8-Oct-07	3	4	4	7	8	3	6	7	5	7	5	10	12	15	16	18	8	7	37	15	9	11	14	34	36.7
9-Oct-07	79	40	12	74	23	21	19	49	76	15	15	4	9	4	9	5	4	5	5	4	6	10	11	7	79.0
10-Oct-07	14	4	11	12	21	16	25	9	16	13	10	10	10	11	11	7	14	8	26	7	27	11	6	3	27.4
11-Oct-07	4	3	6	4	5	4	4	4	4	5	6	8	6	7	11	7	9	5	11	5	5	4	3	3	11.3
12-Oct-07	6	3	6	4	5	2	4	7	6	11	15	16	18	20	25	28	21	19	17	8	5	8	10	17	28.0
13-Oct-07	56	25	38	49	3	10	69	39	24	4	9	10	16	8	11	10	10	7	12	4	10	8	10	27	69.2
14-Oct-07	15	12	7	18	15	54	91	13	9	57	9	8	12	10	12	38	67	45	28	37	48	23	46	71	90.7
15-Oct-07	36	16	14	28	23	53	35	17	12	36	74	28	34	50	18	16	14	28	25	22	14	18	26	20	73.6
16-Oct-07	18	13	9	14	31	17	26	84	59	50	37	18	34	M	M	M	M	57	28	26	24	29	57	63	84.2
17-Oct-07	15	24	10	55	55	31	53	49	63	7	8	6	7	8	12	10	7	7	9	6	6	12	7	11	63.0
18-Oct-07	6	10	9	4	78	38	88	59	7	48	17	10	52	32	18	20	13	13	33	12	90	27	21	24	89.6
19-Oct-07	60	30	28	38	24	42	34	44	52	43	40	24	12	14	12	22	10	10	16	9	10	5	8	8	60.5
20-Oct-07	11	7	7	10	9	8	13	12	11	18	18	17	25	13	19	14	10	25	15	4	3	3	3	4	25.1
21-Oct-07	3	6	5	5	4	9	4	4	4	5	8	13	9	15	9	8	13	17	36	16	3	4	3	3	35.9
22-Oct-07	6	5	11	8	3	7	9	12	6	6	4	7	15	10	7	6	5	13	8	4	2	22	24	26	26.5
23-Oct-07	16	10	11	16	13	50	17	8	9	6	31	11	9	7	5	8	12	20	20	18	10	22	19	7	49.8
24-Oct-07	29	91	8	8	25	14	9	5	5	6	6	6	6	6	8	8	5	6	5	3	3	3	3	4	90.8
25-Oct-07	5	10	9	6	7	4	4	4	4	6	13	10	10	11	11	10	13	17	6	3	3	6	7	17	17.3
26-Oct-07	8	5	15	6	5	13	26	28	13	7	11	14	16	14	18	9	9	11	7	5	6	6	5	3	27.6
27-Oct-07	11	9	6	10	4	14	3	9	5	5	5	5	6	7	8	5	7	12	21	12	10	6	5	6	21.1
28-Oct-07	6	5	4	7	5	13	11	8	5	8	24	23	46	20	47	31	30	9	17	7	7	38	56	24	56.1
29-Oct-07	19	23	30	30	56	13	24	30	52	5	21	14	15	11	12	12	13	50	23	3	4	4	5	6	55.8
30-Oct-07	5	6	7	5	6	6	4	4	4	6	7	7	7	8	8	6	6	5	3	5	4	6	4	3	8.3
31-Oct-07	3	5	3	4	2	4	3	3	2	3	5	6	8	6	6	4	6	4	4	3	3	6	3	4	7.8

Hourly Max	79	91	65	74	78	79	91	84	76	57	74	47	60	50	47	38	67	57	82	37	90	38	57	71
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1-hr Average Wind Rose (in km/hr) Located at the Portable-Spirit River Site for October 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	160
5	to	10	242
10	to	20	264
20	to	30	65
30	to	40	9
	>	40	0
Total Non-Zero Values			740

PASZA – Valleyview Station

Monthly Summary Tables, Graphs and Roses

PASZA - Valleyview Sulphur Dioxide Monthly Summary

Station: Valleyview
 Station Owner: PASZA

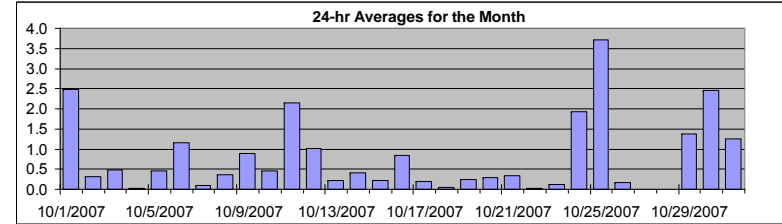
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2007 to November 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:	16.3 ppb 1-Oct 16:00 17:00
Maximum 24-hr Average:	3.7 ppb 25-Oct



AIC Time:	31 hrs	Operational Time:	705 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.3%						
Percentile	99	95	75	50	25	5	1	Average	Median
	10.3	4.5	0.6	0.1	0.0	0.0	0.0	0.8 ppb	0.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Oct-07	A	0	0	0	0	0	0	0	0	0	3	4	10	6	9	4	5	16	1	0	0	0	0	0	0	2.5	16.3
2-Oct-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	M	1	0	1	0	2	2	0	0	0	0.3	2.0
3-Oct-07	A	0	0	0	0	0	0	0	0	0	0	5	4	1	1	0	0	0	0	0	0	0	0	0	0	0.5	4.5
4-Oct-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
5-Oct-07	A	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	0.5	1.0
6-Oct-07	A	1	1	0	0	0	0	0	0	0	0	2	5	4	2	2	3	3	1	0	0	0	0	0	0	1.2	5.5
7-Oct-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
8-Oct-07	A	0	0	0	0	0	0	0	0	0	2	1	1	2	0	1	1	0	0	0	0	0	0	0	0	0.4	2.1
9-Oct-07	A	0	0	0	0	0	0	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	2.3
10-Oct-07	A	0	0	1	1	1	1	0	1	0	0	1	0	1	1	1	1	0	0	0	1	0	1	0	0	0.5	0.8
11-Oct-07	A	0	0	1	1	0	0	0	0	1	4	3	4	3	11	4	8	2	1	1	1	1	1	1	1	2.1	11.2
12-Oct-07	A	0	1	1	1	1	1	1	1	1	1	1	3	4	1	1	2	0	0	0	0	0	0	0	0	1.0	4.3
13-Oct-07	A	0	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	0.9
14-Oct-07	A	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0.4	1.3
15-Oct-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0.2	1.9
16-Oct-07	A	0	0	0	0	0	0	0	0	0	1	1	2	4	2	2	2	1	1	1	1	2	0	0	0	0.9	3.6
17-Oct-07	A	0	0	0	0	1	1	0	1	0	1	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0.2	0.8
18-Oct-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3
19-Oct-07	A	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0.2	0.9
20-Oct-07	A	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	1	1	0	0	0	0	0	0	1	0.3	1.7
21-Oct-07	A	0	0	0	0	0	0	0	0	0	1	0	1	1	0	2	2	1	0	0	0	0	0	0	0	0.3	1.7
22-Oct-07	A	0	0	0	0	0	0	0	0	0	0	0	P	P	P	0	0	0	0	0	0	0	0	0	0	0.0	0.3
23-Oct-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.1	1.0
24-Oct-07	A	1	1	0	0	0	0	0	0	0	1	5	5	3	6	2	5	6	1	0	1	2	5	0	0	1.9	6.4
25-Oct-07	A	0	0	4	12	12	11	10	8	2	0	0	0	0	0	1	6	8	8	0	0	0	0	4	0	3.7	12.0
26-Oct-07	A	2	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	2.3
27-Oct-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
28-Oct-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
29-Oct-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	11	6	4	1	0	1.4	10.9
30-Oct-07	A	0	0	0	0	2	5	5	3	7	3	0	0	5	9	6	6	5	0	0	0	0	0	0	0	2.4	9.3
31-Oct-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	11	10	0	0	0	0	0	0	1.3	10.8
Hourly Avg	N	0.2	0.1	0.2	0.5	0.6	0.6	0.6	0.5	0.7	1.0	1.1	1.2	1.4	1.5	1.0	2.0	1.4	0.9	0.5	0.7	0.4	0.4	0.3			
Hourly Max	0.0	2.3	0.9	3.9	12.0	11.9	10.7	10.3	7.7	7.0	4.5	9.5	5.6	8.8	11.2	6.0	16.3	10.8	9.7	6.8	10.9	6.0	4.9	3.6			

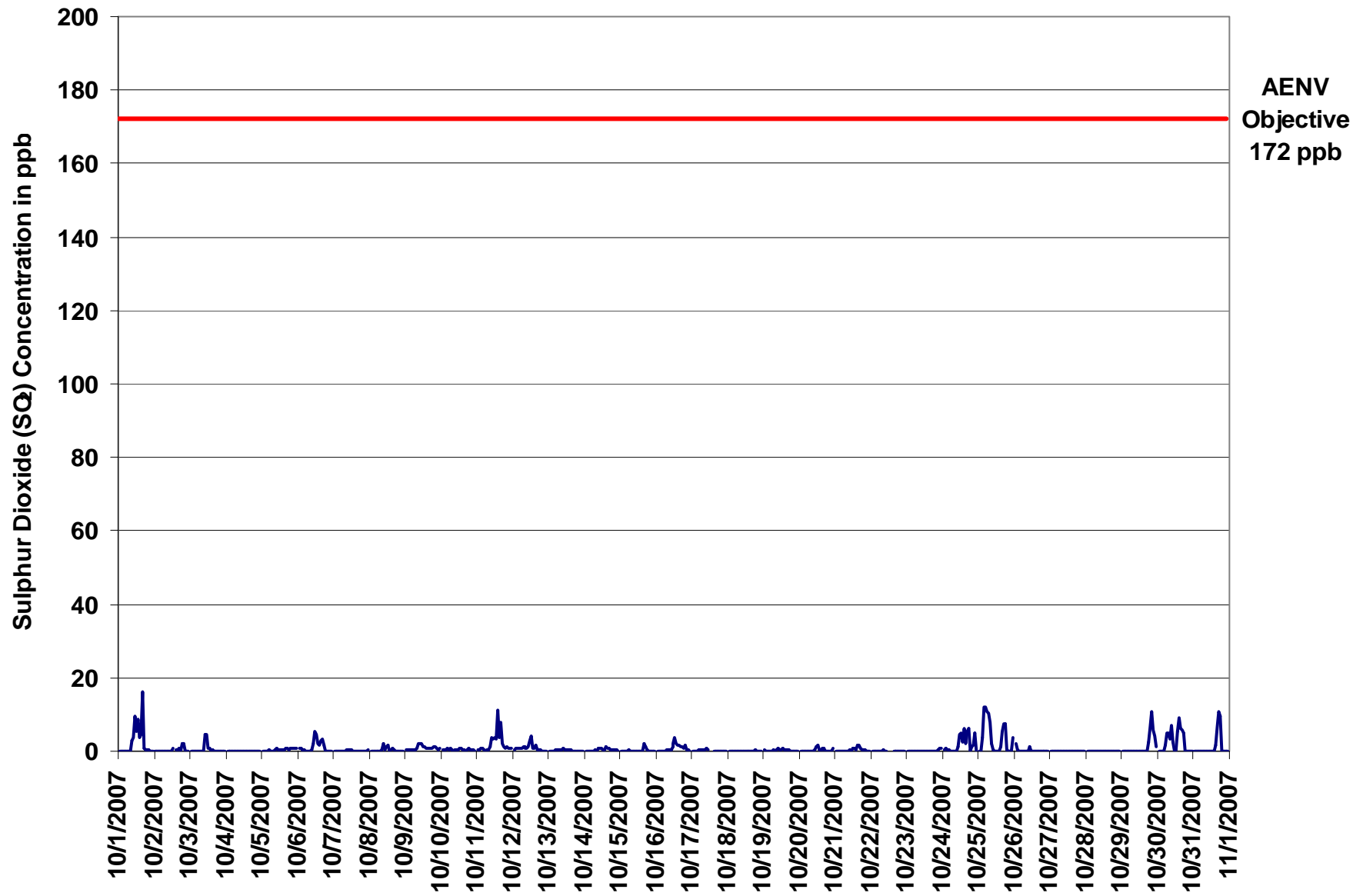


Figure 54. PASZA - Valleyview Sulphur Dioxide 1-hr Average Monthly Trend

Station: Valleyview
 Station Owner: PASZA

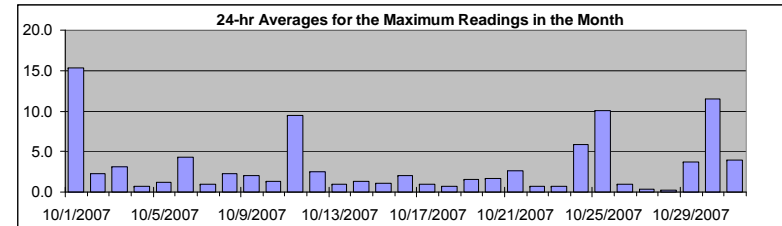
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Value:	97.2	ppb	30-Oct	13:00 14:00
Maximum 24-hr Value:	15.3	ppb	1-Oct	



AIC Time:	31 hrs	Operational Time:	705 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.3%						
Percentile	99	95	75	50	25	5	1	Average	Median
	36.7	15.3	1.7	0.9	0.6	0.1	0.0	3.1 ppb	0.9 ppb

Status Flag Characters

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

Day Mountain Standard Time

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-Oct-07	A	1	1	1	1	1	1	1	1	26	34	50	40	36	37	36	82	2	1	1	1	1	1	1	15.3	82.1
2-Oct-07	A	1	1	1	1	1	1	1	1	1	1	1	1	16	M	4	2	2	2	6	7	1	1	1	2.2	16.5
3-Oct-07	A	1	1	1	1	1	1	1	1	1	40	13	3	5	1	2	1	1	1	1	1	1	1	1	3.1	39.8
4-Oct-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.5
5-Oct-07	A	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	2	2	2	2	2	2	1.2	2.1
6-Oct-07	A	1	1	2	1	1	1	1	1	4	8	13	14	10	12	10	9	7	1	1	1	0	1	1	4.3	13.5
7-Oct-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0	0	1.0	1.3
8-Oct-07	A	1	1	1	0	0	1	1	1	6	6	5	5	7	1	3	4	1	0	0	1	1	0	0	2.2	7.4
9-Oct-07	A	1	1	1	1	1	1	1	3	5	3	3	2	2	2	2	1	2	2	2	2	2	1	2	2.0	5.3
10-Oct-07	A	1	1	1	1	1	2	2	2	1	1	1	1	1	2	2	1	1	2	2	1	2	1	1	1.3	1.9
11-Oct-07	A	2	1	2	2	1	1	1	1	16	16	12	20	10	88	14	16	3	3	2	2	2	1	2	9.4	88.3
12-Oct-07	A	1	2	2	1	2	2	2	2	2	2	2	11	11	3	2	8	1	2	1	1	1	1	0	2.5	10.8
13-Oct-07	A	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1.0	1.3
14-Oct-07	A	1	1	1	1	1	1	1	1	1	1	2	1	1	2	2	2	2	1	1	1	1	1	1	1.3	2.3
15-Oct-07	A	0	1	1	1	1	1	1	0	1	1	1	1	1	0	1	3	3	1	1	1	1	1	1	1.1	3.5
16-Oct-07	A	1	1	1	1	1	1	2	1	2	2	3	4	6	4	3	3	2	2	2	6	1	1	1	2.0	5.8
17-Oct-07	A	1	1	1	1	1	2	2	2	2	2	1	C	C	C	1	1	1	0	1	1	1	1	1	1.0	1.8
18-Oct-07	A	1	1	1	1	0	0	1	1	1	1	1	0	0	1	0	1	1	1	1	1	0	1	1	0.8	1.3
19-Oct-07	A	1	1	1	1	1	1	1	1	1	2	4	3	5	3	1	1	1	1	1	1	1	1	1	1.5	5.0
20-Oct-07	A	1	0	1	0	1	1	1	1	1	4	6	6	2	2	1	2	3	2	1	1	1	1	3	1.7	6.1
21-Oct-07	A	1	1	1	1	1	1	1	1	1	4	2	6	7	4	10	11	3	1	1	1	1	1	1	2.7	10.6
22-Oct-07	A	1	1	1	1	1	1	3	2	1	1	P	P	P	P	1	1	1	1	1	1	1	1	1	0.7	2.5
23-Oct-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	0.8	1.7
24-Oct-07	A	2	2	1	1	1	1	1	1	1	5	10	12	8	13	9	11	19	6	1	7	14	14	1	5.9	19.0
25-Oct-07	A	1	1	17	21	19	21	20	17	8	1	1	1	1	2	11	15	29	18	6	1	1	0	21	10.1	28.9
26-Oct-07	A	8	1	1	0	0	0	1	1	1	7	0	0	1	0	0	0	0	0	0	0	0	0	0	0.9	7.7
27-Oct-07	A	0	0	1	1	0	0	0	1	0	1	0	1	0	1	1	1	1	1	0	0	0	0	1	0.4	0.8
28-Oct-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0.2	1.0
29-Oct-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	9	12	16	19	15	7	3.7	18.9
30-Oct-07	A	1	0	1	3	3	10	13	16	12	12	1	3	97	53	17	11	11	1	0	0	0	0	0	11.5	97.2
31-Oct-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	19	25	24	1	0	0	0	0	4.0	25.1
Hourly Avg	N	1.0	0.8	1.4	1.5	1.4	1.7	2.0	2.0	3.1	5.0	4.4	4.8	8.1	8.4	5.1	6.8	4.0	3.0	1.7	1.9	1.9	1.6	1.8		
Hourly Max	0.0	7.7	2.1	16.7	21.1	18.6	20.6	19.5	17.5	25.7	39.8	50.2	40.0	97.2	88.3	36.2	82.1	28.9	24.4	12.2	16.3	18.9	15.3	20.7		

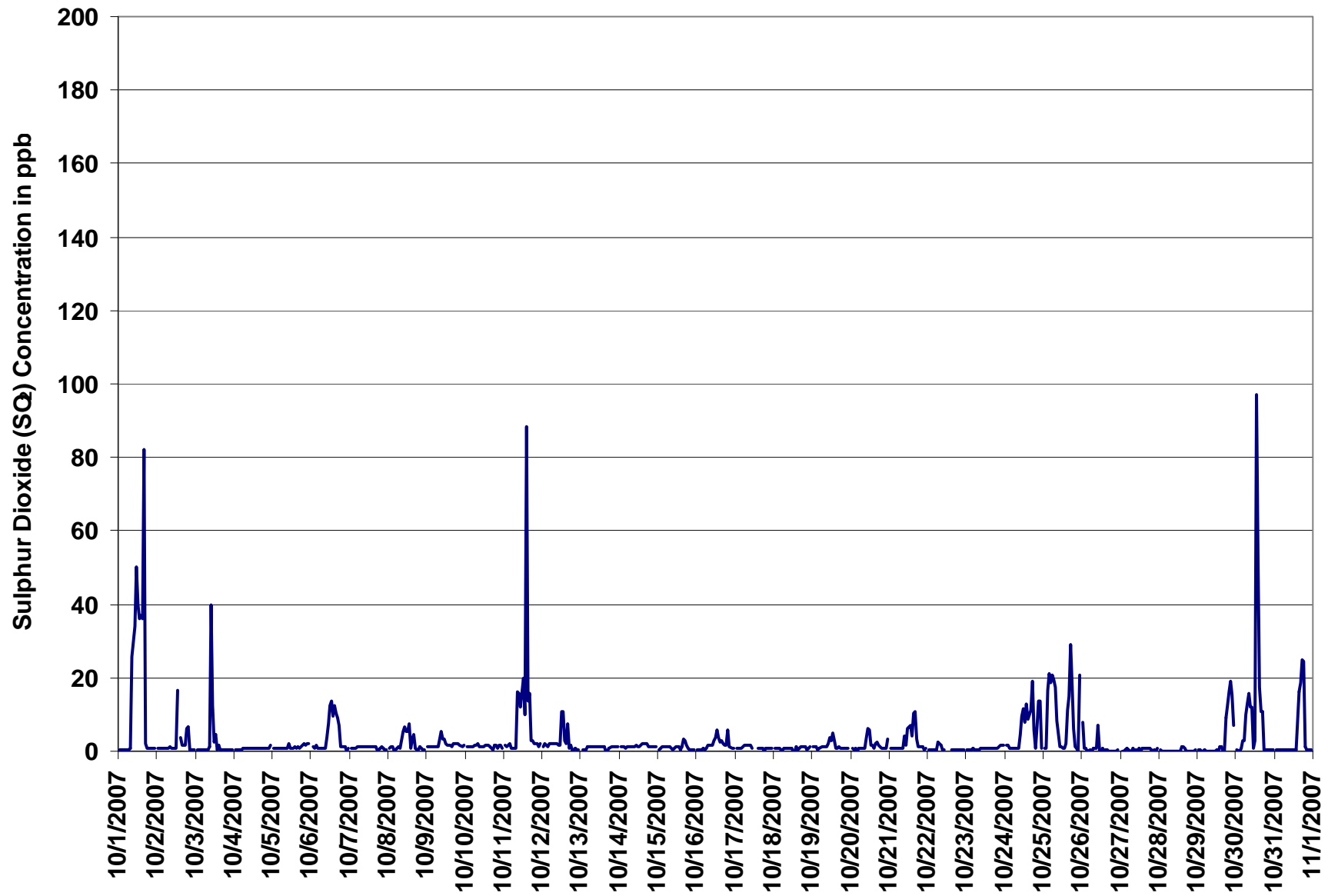
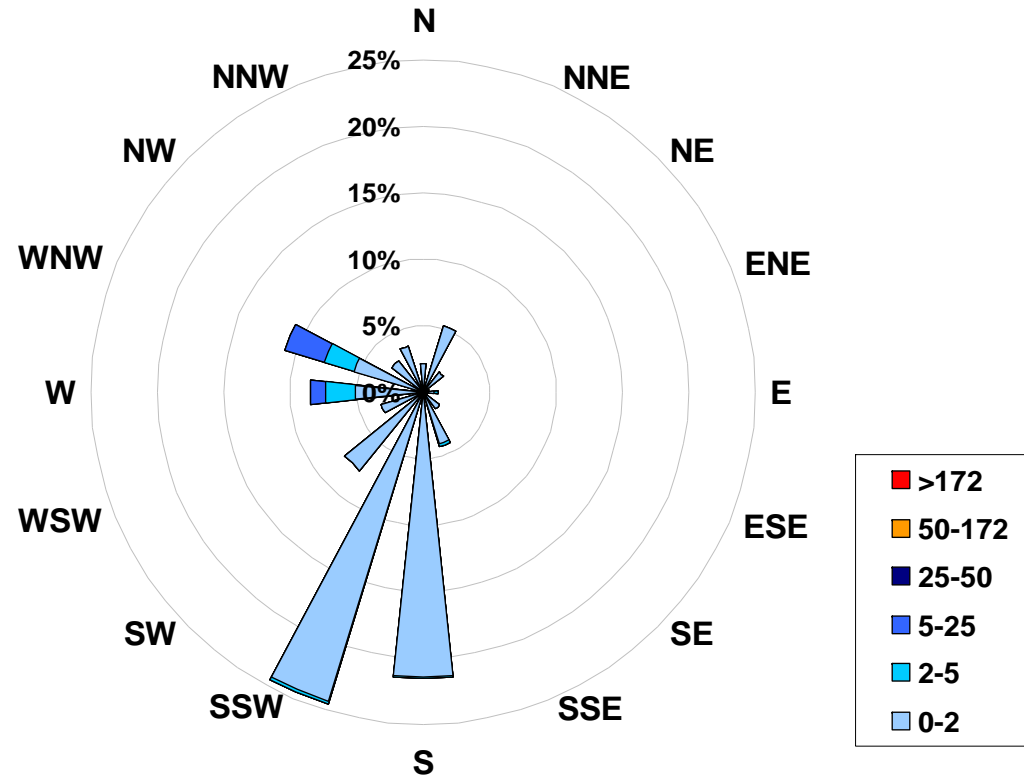


Figure 55. PASZA - Valleyview Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb Range			Frequency (hrs)
0.0	<	2	635
2	to	5	40
5	to	25	30
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			705

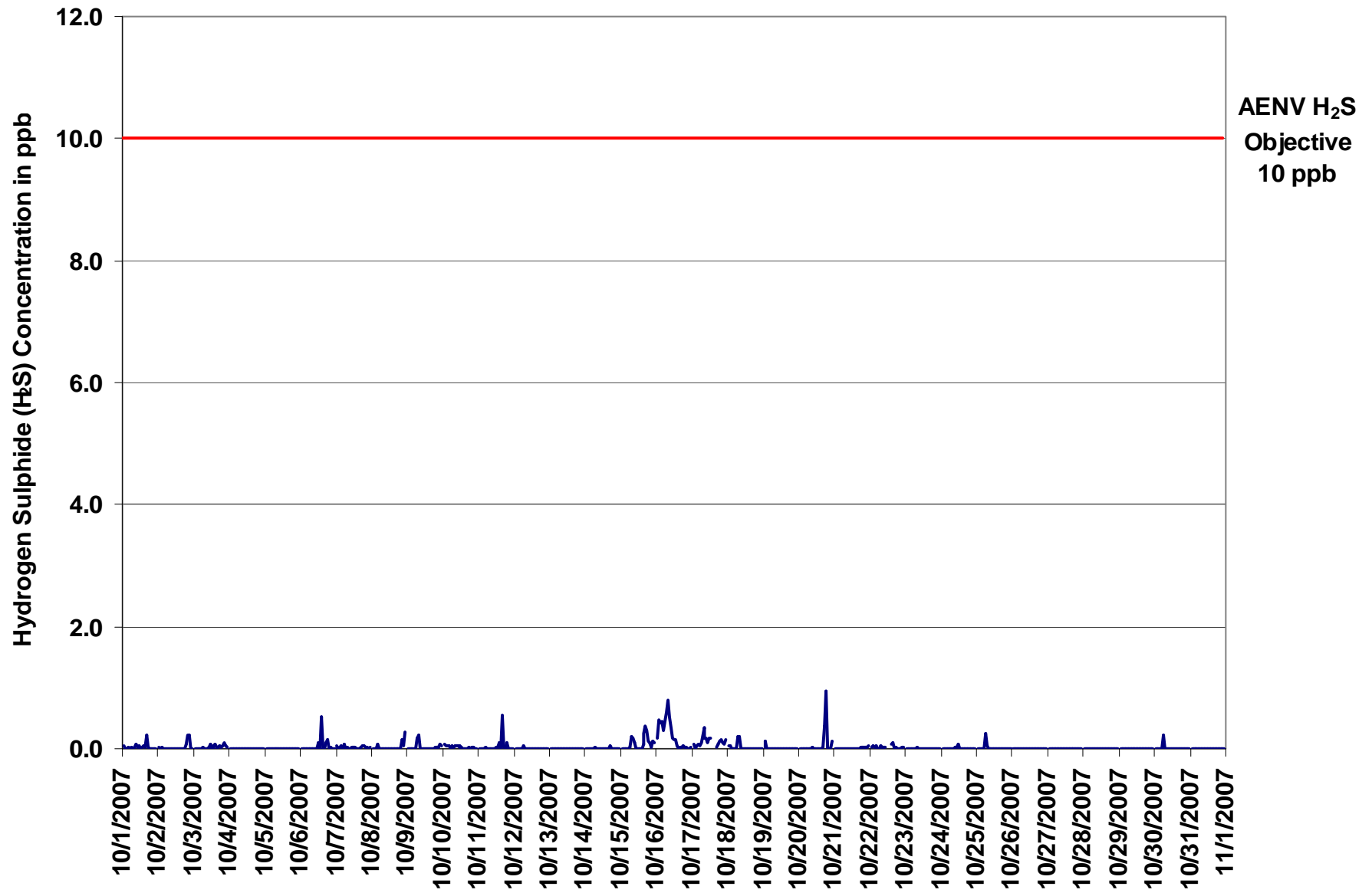


Figure 56. PASZA - Valleyview Hydrogen Sulphide 1-hr Average Monthly Trend

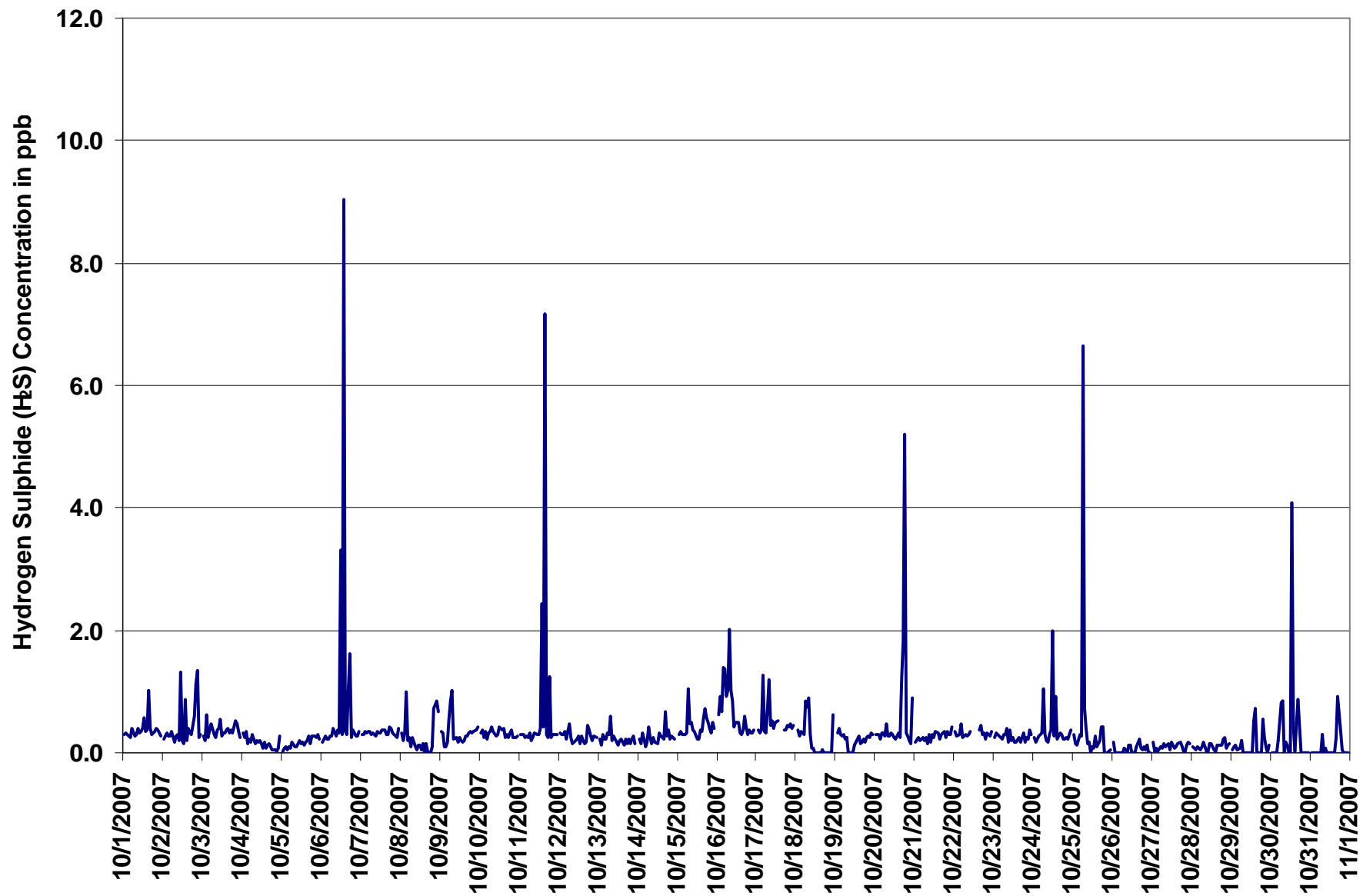
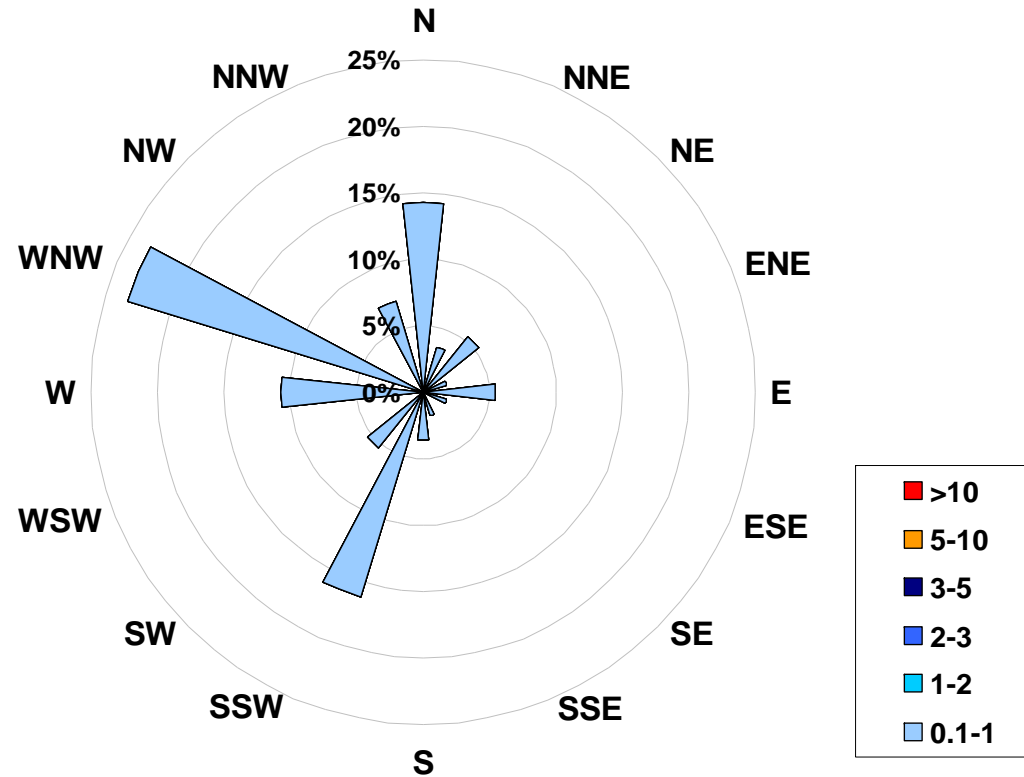


Figure 57. PASZA - Valleyview Hydrogen Sulphide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of H ₂ S in ppb			
Range			Frequency (hrs)
0.1	<	1	706
1	to	2	0
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			706

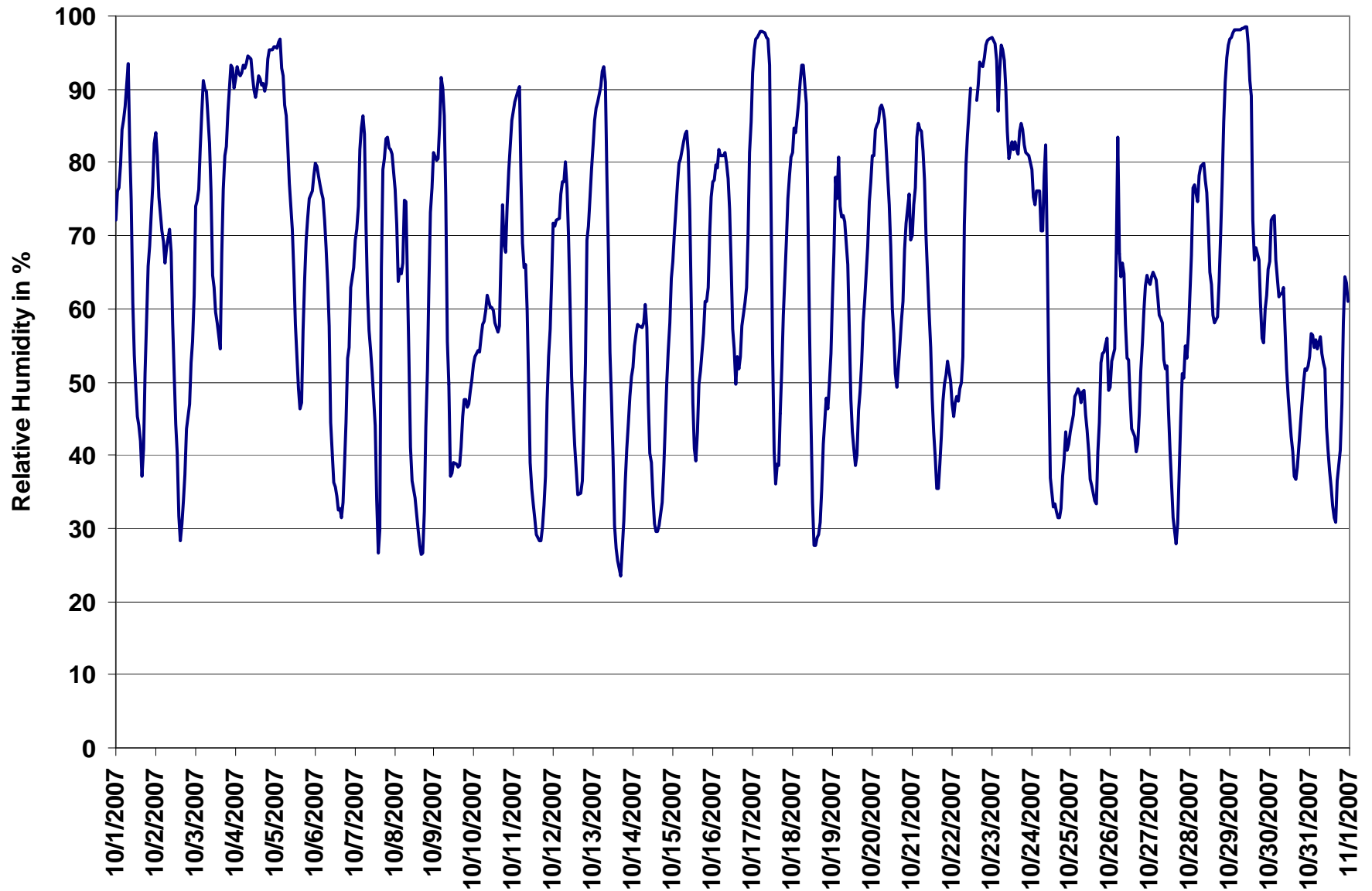


Figure 58. PASZA - Valleyview Relative Humidity 1-hr Average Monthly Trend

PASZA - Valleyview Temperature Monthly Summary

Station: Valleyview
 Station Owner: PASZA

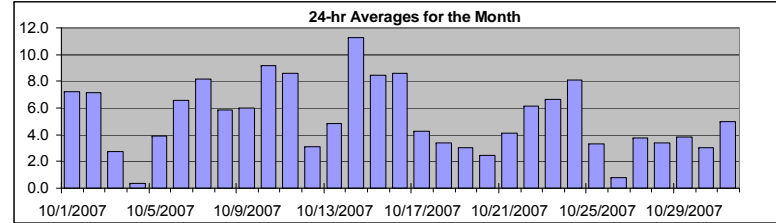
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	20.9 °C	7-Oct	14:00 15:00
Maximum 24-hr Value:	11.3 °C	14-Oct	



AIC Time:	0 hrs	Operational Time:	741 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	17.1	12.7	8.6	5.1	1.9	-1.8	-3.8	5.3 °C	5.1 °C

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Oct-07	6	5	5	5	3	3	2	1	4	7	10	10	12	12	12	13	13	12	10	8	7	6	5	4	7.3	13.0
2-Oct-07	3	3	4	4	5	5	6	5	5	6	9	10	10	11	12	13	12	11	9	8	7	6	5	4	7.2	12.6
3-Oct-07	1	1	0	-1	-1	-2	-2	-2	0	2	5	6	6	7	7	8	6	5	4	4	3	3	3	3	2.7	7.9
4-Oct-07	1	0	0	-1	-1	-1	-1	-1	-1	-1	0	0	1	1	1	2	2	2	2	2	2	1	0	0	0.4	2.0
5-Oct-07	0	0	-1	-1	-1	-1	1	1	2	3	5	6	8	9	9	10	10	8	6	5	4	4	4	4	3.9	9.8
6-Oct-07	3	3	3	3	3	3	3	3	4	6	10	11	11	11	12	12	12	11	9	8	6	5	3	2	6.6	12.2
7-Oct-07	1	1	1	2	3	4	4	6	8	9	10	10	14	19	21	20	13	8	8	7	7	7	6	6	8.2	20.9
8-Oct-07	6	5	6	4	4	3	1	1	3	6	8	8	9	10	11	12	12	12	9	6	4	1	0	-1	5.9	12.3
9-Oct-07	-2	-3	-3	-4	-4	-5	-4	-3	2	5	9	11	11	11	12	12	12	12	13	12	12	12	12	12	6.0	12.5
10-Oct-07	12	11	11	10	10	9	9	9	8	9	8	8	9	9	10	10	9	8	9	9	9	9	8	8	9.2	11.5
11-Oct-07	8	7	7	6	7	7	6	6	7	10	12	12	13	13	14	13	13	12	10	9	6	4	3	1	8.6	13.7
12-Oct-07	0	0	0	0	-1	-2	-2	-2	-1	1	4	7	8	9	11	10	10	10	8	5	2	0	-1	-2	3.1	10.5
13-Oct-07	-2	-3	-3	-3	-3	-4	-4	-4	-2	1	4	6	10	13	14	14	15	14	12	10	9	8	8	7	4.9	14.9
14-Oct-07	6	6	6	6	6	6	6	6	7	10	13	14	17	19	19	19	19	17	16	13	11	10	9	8	11.3	19.2
15-Oct-07	7	6	5	5	4	4	3	3	3	4	7	10	14	16	16	15	14	13	12	10	9	9	7	6	8.5	16.1
16-Oct-07	5	5	5	5	5	5	5	5	5	7	8	10	12	13	14	13	14	13	12	11	11	9	7	6	8.6	13.9
17-Oct-07	4	3	2	1	0	-1	-2	-2	-1	0	2	6	10	12	12	12	12	10	8	6	3	2	1	0	4.2	12.5
18-Oct-07	-1	-2	-2	-2	-3	-3	-4	-4	-3	0	4	8	11	12	11	11	11	10	8	6	4	4	3	2	3.4	11.6
19-Oct-07	1	1	0	0	-1	-1	-1	-1	-1	1	4	7	8	9	9	9	7	6	5	4	3	2	0	-1	3.0	9.2
20-Oct-07	-1	-1	-2	-2	-1	-2	-1	-1	0	1	4	5	7	7	8	8	7	6	5	4	2	1	1	4	2.4	7.8
21-Oct-07	3	2	1	-1	-1	-1	-2	-1	0	1	3	4	6	8	9	10	9	8	8	7	6	6	6	7	4.1	9.5
22-Oct-07	9	9	9	8	8	7	7	7	7	7	7	7	P	P	P	6	5	5	4	4	4	4	4	4	6.2	9.2
23-Oct-07	4	4	4	5	5	4	4	4	4	5	6	8	8	9	9	9	9	9	8	8	8	8	8	8	6.6	9.3
24-Oct-07	9	9	9	9	9	10	12	11	9	9	9	9	9	9	8	9	8	8	7	6	6	5	4	3	8.1	11.9
25-Oct-07	3	3	3	3	3	3	3	2	2	3	4	5	5	5	6	6	5	4	3	2	1	1	1	3	3.3	5.9
26-Oct-07	2	1	1	-1	-2	-2	-2	-3	-3	-1	0	1	2	4	5	6	5	4	2	1	0	0	-1	-1	0.8	5.7
27-Oct-07	0	-1	-1	-1	-1	0	0	0	0	1	1	2	4	6	8	9	11	10	8	6	6	5	6	6	3.7	11.0
28-Oct-07	4	3	0	0	1	0	0	0	0	0	2	4	6	7	8	8	8	7	6	4	4	3	3	4	3.4	8.3
29-Oct-07	4	4	3	3	3	3	3	3	3	3	4	5	6	6	6	6	6	5	4	4	4	3	2	2	3.8	6.2
30-Oct-07	1	0	0	-1	1	2	1	1	1	3	4	5	6	6	7	7	7	6	4	3	3	2	2	2	3.0	7.3
31-Oct-07	2	1	1	2	2	2	2	2	2	3	7	8	9	10	11	12	11	9	7	5	4	3	3	3	5.0	11.6
Hourly Avg	3.2	2.8	2.4	2.0	1.9	1.7	1.6	1.7	2.5	4.0	5.9	7.3	8.7	9.8	10.5	10.5	9.8	8.8	7.6	6.4	5.4	4.6	4.0	3.7		
Hourly Max	11.5	11.1	10.7	10.2	9.6	9.2	9.5	11.9	10.7	10.4	13.2	14.0	16.8	18.8	20.9	20.1	18.9	17.4	15.6	13.5	12.1	12.3	12.1	11.8		

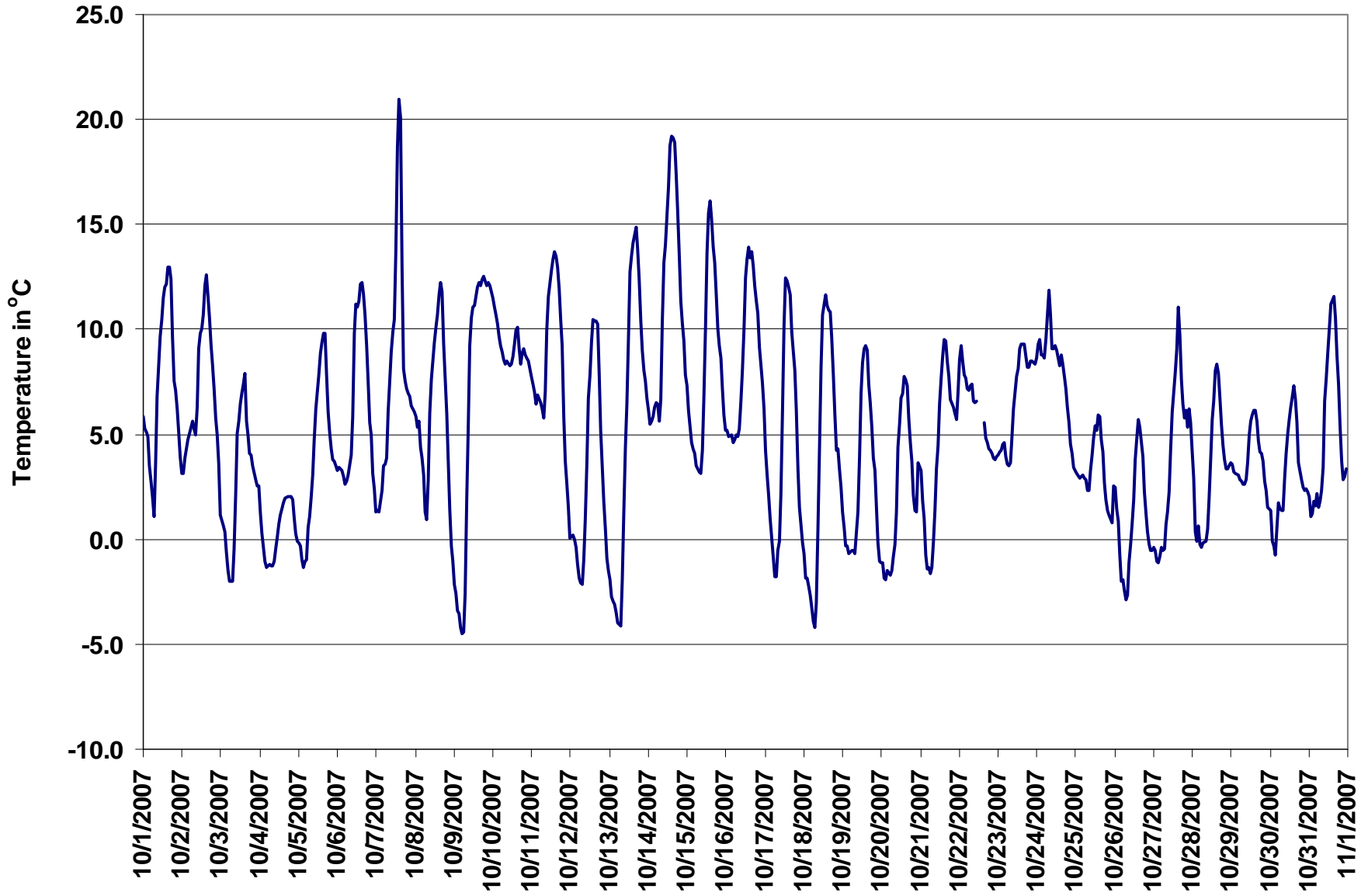


Figure 59. PASZA - Valleyview Temperature 1-hr Average Monthly Trend

PASZA - Valleyview Scalar Wind Speed Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

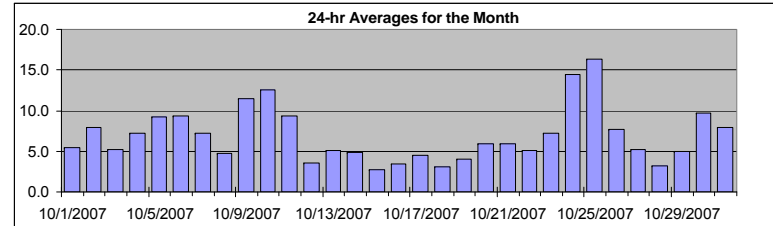
Wind Speed (WSs)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	24.5	km/hr	7-Oct	16:00 17:00
Maximum 24-hr Value:	16.3	km/hr	25-Oct	

Calm Time:	0 hrs	0% calms	Operational Time:	741 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.6%				
Percentile	99	95	75	50	25	5	1	AverageS
	21.9	18.6	9.5	5.2	3.0	1.5	1.2	6.9 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Oct-07	4	4	2	2	2	2	2	2	2	4	7	12	10	11	10	8	10	11	8	4	4	4	3	2	5.5	11.9	
2-Oct-07	2	3	3	4	6	5	6	4	3	2	4	7	12	13	17	19	18	16	12	11	8	5	8	6	8.0	18.6	
3-Oct-07	3	4	3	4	2	3	2	3	2	4	9	11	10	11	9	9	12	5	5	2	2	1	4	6	5.2	11.7	
4-Oct-07	9	9	10	11	10	9	9	10	9	9	9	10	9	8	7	7	6	5	5	4	3	2	2	1	7.2	10.6	
5-Oct-07	1	2	2	3	3	5	10	8	9	13	13	11	9	11	10	11	13	13	13	13	13	12	12	12	9.2	13.5	
6-Oct-07	10	9	9	8	7	8	8	8	6	4	12	19	16	15	18	15	19	15	7	3	3	2	2	1	9.3	19.1	
7-Oct-07	2	2	2	4	3	3	3	6	9	10	9	12	11	9	14	8	24	19	6	3	4	5	4	3	7.3	24.5	
8-Oct-07	4	3	7	6	5	3	5	4	4	5	10	12	10	10	7	4	3	2	3	2	1	1	1	2	4.7	12.5	
9-Oct-07	2	1	3	1	1	1	5	5	5	7	13	14	21	21	16	19	15	16	19	20	19	17	18	18	11.5	21.1	
10-Oct-07	10	10	11	13	15	13	13	10	11	17	18	16	18	16	14	11	10	10	12	14	13	13	6	4	12.5	18.4	
11-Oct-07	5	4	5	4	5	4	5	6	6	7	15	18	19	21	19	20	19	14	6	5	4	4	4	3	9.3	20.5	
12-Oct-07	3	4	5	5	3	3	2	2	4	7	4	2	3	3	3	9	5	2	2	1	3	3	3	3	3.5	9.2	
13-Oct-07	2	2	3	2	1	2	1	1	3	5	6	6	10	11	6	4	8	7	7	5	6	7	8	8	5.1	10.6	
14-Oct-07	7	5	8	8	7	7	6	3	2	3	9	8	5	3	3	5	5	5	3	4	4	2	2	3	4.9	8.7	
15-Oct-07	3	3	2	3	3	3	3	2	1	1	1	2	2	2	1	3	4	3	5	6	4	3	2	2	2.7	5.9	
16-Oct-07	2	2	2	1	3	4	2	2	1	1	2	6	2	3	3	6	8	5	4	7	5	4	5	4	3.5	8.0	
17-Oct-07	3	4	3	3	4	3	2	1	1	3	5	4	3	5	13	13	10	7	3	2	3	4	3	4	4.5	13.0	
18-Oct-07	3	4	4	3	2	2	1	1	2	2	4	3	4	4	7	7	2	3	4	4	5	2	2	2	3.1	7.4	
19-Oct-07	1	2	2	1	1	2	2	3	4	4	4	5	6	8	10	10	8	7	4	3	2	2	3	3	4.0	9.8	
20-Oct-07	3	3	4	3	3	3	3	3	3	2	4	8	9	11	14	14	11	8	6	5	4	3	4	10	5.9	14.2	
21-Oct-07	7	4	3	4	5	5	4	5	5	5	7	8	8	9	6	8	9	8	6	7	6	3	5	6	6.0	9.4	
22-Oct-07	6	7	6	9	8	8	6	8	6	4	4	4	P	P	P	7	5	3	3	2	2	3	3	3	5.1	9.0	
23-Oct-07	4	3	3	2	3	2	3	3	5	6	7	11	7	7	7	10	10	8	10	12	13	14	13	11	7.3	13.6	
24-Oct-07	11	10	9	7	6	6	10	14	12	14	17	20	22	23	20	18	16	16	14	19	17	15	17	13	14.4	23.2	
25-Oct-07	13	15	15	19	20	20	22	20	20	24	24	22	22	20	19	19	13	12	10	8	9	7	5	13	16.3	24.2	
26-Oct-07	15	13	16	22	12	14	8	5	4	2	3	6	8	6	5	4	6	4	4	5	4	5	6	7	7.7	21.9	
27-Oct-07	7	7	8	7	9	8	9	10	8	3	2	2	2	2	4	6	4	4	4	3	3	3	6	5	5.2	9.8	
28-Oct-07	4	3	4	4	3	4	5	3	3	4	3	3	2	2	1	2	2	3	2	4	5	4	3	2	3.2	5.1	
29-Oct-07	4	3	3	2	1	1	1	2	3	3	3	2	3	4	11	9	7	6	9	10	9	9	8	6	5.0	10.9	
30-Oct-07	6	4	4	4	4	10	10	8	6	11	15	19	20	18	16	18	16	10	5	5	5	6	7	5	9.7	19.5	
31-Oct-07	4	4	5	5	5	5	5	7	6	4	7	8	8	7	11	22	23	16	11	5	5	5	6	6	7.9	22.6	
1-hr Average	5.2	4.9	5.3	5.6	5.3	5.4	5.6	5.5	5.3	6.1	8.1	9.4	9.6	9.8	10.0	10.5	10.5	8.5	6.8	6.3	6.1	5.5	5.7	5.7			
Hourly Max	15.0	15.5	16.5	21.9	19.7	19.5	22.0	20.4	20.0	24.2	24.0	21.9	21.7	23.2	20.2	22.1	24.5	19.1	18.7	19.7	18.5	16.8	17.9	17.6			

PASZA - Valleyview Vector Wind Speed Monthly Summary

Station: Valleyview
Station Owner: PASZA

HOURLY AVERAGE TABLE

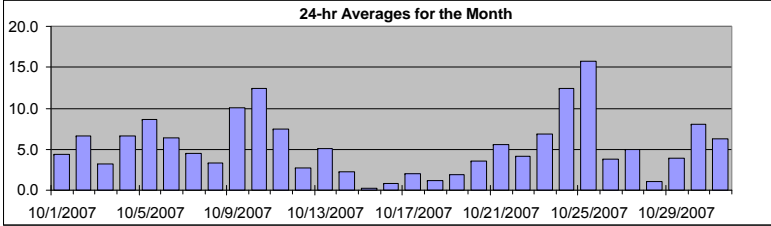
Wind Speed (WSv)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Maximum 1-hr Average:	23.9	km/hr	25-Oct	9:00 10:00
Maximum 24-hr Value:	15.8	km/hr	25-Oct	

Calm Time:	0 hrs	0% calms	Operational Time:	741 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.6%				
Percentile	99	95	75	50	25	5	1	AverageV
	21.6	18.2	9.3	5.0	2.7	0.9	0.5	



Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max			
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00				
1-Oct-07	4	4	2	1	2	2	2	2	2	3	6	11	10	11	9	7	10	11	7	4	4	4	3	1		4.4	11.4	
2-Oct-07	2	3	3	4	6	5	6	4	3	2	3	7	11	13	17	18	18	15	12	11	8	5	8	5		6.7	18.2	
3-Oct-07	3	4	3	3	1	3	2	3	2	3	9	10	10	10	9	9	11	4	5	1	1	1	4	6		3.2	10.7	
4-Oct-07	9	9	10	10	10	9	9	10	9	8	9	10	8	8	7	6	6	5	5	3	2	2	2	1		6.6	10.5	
5-Oct-07	1	1	2	1	3	5	9	8	9	13	12	10	9	11	10	11	13	13	13	13	12	12	12			8.7	13.4	
6-Oct-07	10	9	9	8	7	8	8	8	6	4	11	19	16	15	17	14	19	14	6	2	3	2	1	1		6.4	18.8	
7-Oct-07	0	1	2	3	1	3	3	6	8	10	9	12	11	9	14	8	22	19	5	2	4	5	4	3		4.5	22.0	
8-Oct-07	3	3	7	6	4	3	5	4	3	4	10	12	9	10	6	3	2	1	2	2	1	1	1	1		3.4	12.2	
9-Oct-07	1	0	2	1	0	1	5	5	2	4	13	14	20	21	16	18	15	15	19	19	18	17	18	17		10.0	20.8	
10-Oct-07	10	10	11	13	15	13	13	10	11	17	18	16	18	16	14	11	9	9	11	14	13	13	6	3		12.4	18.2	
11-Oct-07	5	4	4	4	5	4	5	6	6	6	14	17	19	20	18	20	19	14	6	4	3	4	4	3		7.4	20.2	
12-Oct-07	3	4	5	5	3	3	2	2	3	7	4	1	2	3	2	9	5	2	0	1	3	3	3	2		2.7	8.9	
13-Oct-07	2	2	3	2	1	1	1	1	3	5	6	6	10	10	6	4	8	7	7	5	6	7	8	8		5.1	10.5	
14-Oct-07	7	5	8	8	7	7	6	3	1	2	8	8	4	2	1	4	5	5	3	4	4	2	1	2		2.2	8.5	
15-Oct-07	3	3	1	2	3	3	2	1	1	1	1	2	2	1	0	3	4	3	4	6	4	3	1	2		0.3	5.9	
16-Oct-07	1	1	1	1	1	2	1	1	1	0	2	6	1	3	3	5	8	5	2	6	4	4	5	4		0.9	7.7	
17-Oct-07	3	4	3	3	4	3	2	1	1	3	5	4	3	4	12	13	10	7	2	1	3	4	3	4		2.0	12.5	
18-Oct-07	2	3	3	2	0	0	0	1	1	1	4	2	3	3	7	7	2	3	3	3	5	1	1	1		1.1	7.1	
19-Oct-07	1	1	1	1	1	1	2	2	4	4	4	4	4	8	9	9	8	7	4	2	2	2	2	3		1.9	9.5	
20-Oct-07	3	3	3	3	3	2	3	3	3	2	4	7	9	11	13	13	10	8	6	5	3	3	4	10		3.6	13.5	
21-Oct-07	7	3	3	4	5	5	4	5	5	5	7	8	8	9	6	7	9	8	6	6	6	3	5	6		5.6	9.3	
22-Oct-07	5	7	6	9	8	8	6	6	5	4	4	4	P	P	P	7	5	2	3	2	2	2	3	3		4.2	8.9	
23-Oct-07	4	2	3	2	3	2	2	3	5	5	7	11	7	7	7	10	10	8	10	12	13	13	13	11		6.9	13.5	
24-Oct-07	11	10	9	7	6	6	6	14	11	14	17	20	21	23	20	18	16	16	14	19	17	15	16	13		12.4	23.0	
25-Oct-07	13	15	15	19	20	19	22	20	20	24	24	22	21	20	18	19	13	12	10	8	9	6	5	13		15.8	23.9	
26-Oct-07	15	13	16	22	12	14	8	5	3	2	2	6	7	5	4	4	6	4	3	5	4	5	6	7		3.7	21.7	
27-Oct-07	7	7	8	7	9	8	9	10	8	3	1	1	2	1	3	5	3	2	4	3	3	1	6	4		5.0	9.7	
28-Oct-07	4	3	3	4	3	4	5	2	3	4	3	3	1	2	1	1	1	2	2	4	5	3	3	2		1.0	4.9	
29-Oct-07	3	2	3	2	1	1	1	2	3	3	3	2	3	3	11	9	7	6	9	10	9	9	8	5		3.9	10.7	
30-Oct-07	5	3	3	4	4	10	10	8	5	11	15	18	19	18	16	18	16	10	5	5	5	5	7	5		8.0	19.3	
31-Oct-07	4	3	5	4	5	4	5	7	6	1	7	8	8	6	10	22	22	16	11	5	5	5	6	6		6.3	22.3	
1-hr Vector	3.2	3.0	2.8	2.4	3.1	2.9	3.1	2.9	3.2	3.6	4.6	5.3	5.4	5.5	5.4	5.8	6.1	4.2	3.0	3.4	3.5	3.9	4.0	3.9				
Hourly Max	14.9	15.4	16.0	21.7	19.6	19.4	21.8	20.3	19.9	23.9	23.8	21.6	21.4	23.0	19.9	21.7	22.3	18.9	18.5	19.4	18.4	16.7	17.7	17.4				

PASZA - Valleyview Standard Deviation of Wind Direction Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: October 1, 2007 to November 1, 2007

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	741 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	99.6%			
Percentile	99	95	75	50	25	5	1
	87.5	67.8	30.2	14.1	9.1	6.3	4.9

Status Flag Characters

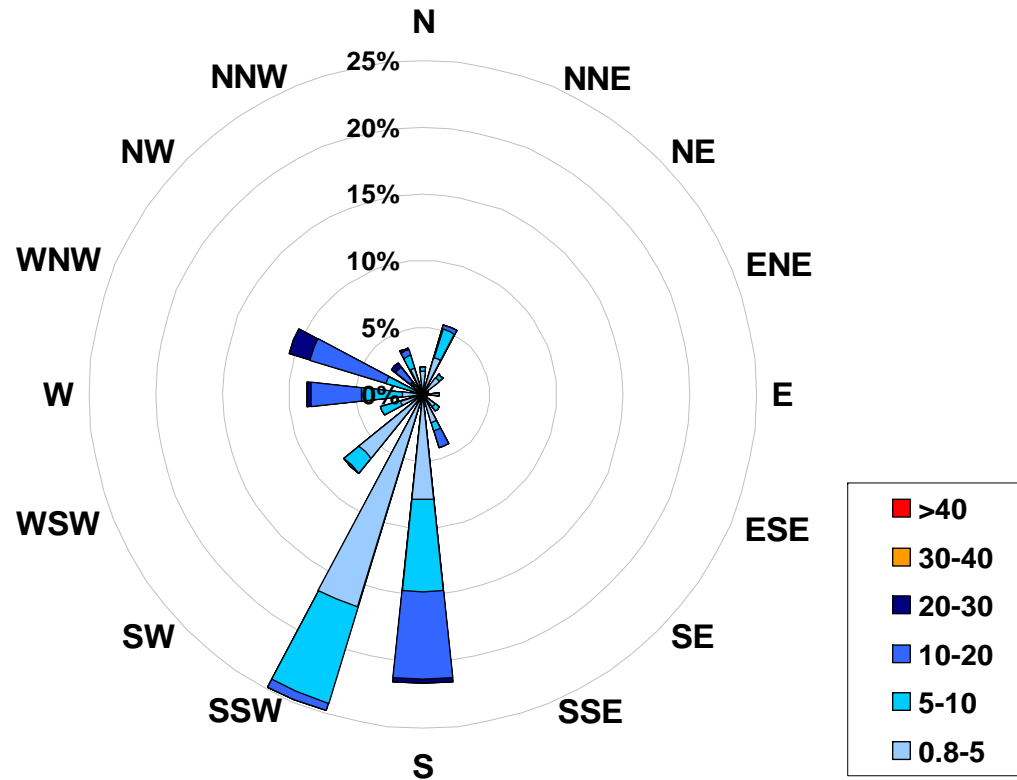
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Oct-07	9	10	29	72	25	47	40	20	43	42	44	19	23	15	28	36	12	13	23	11	16	12	15	46	72.2		
2-Oct-07	13	8	19	24	5	6	7	15	15	21	35	30	14	16	16	12	10	13	7	8	9	8	6	30	35.1		
3-Oct-07	15	5	17	34	34	20	29	11	21	44	14	15	16	16	24	22	27	51	33	53	65	70	20	9	70.3		
4-Oct-07	9	9	7	9	7	7	8	8	8	8	10	11	12	10	12	14	14	12	12	27	29	34	18	44	44.3		
5-Oct-07	40	56	53	94	25	16	11	8	9	8	11	13	18	15	17	12	10	9	8	7	8	7	9	5	93.7		
6-Oct-07	6	6	7	7	6	6	6	6	9	10	38	14	12	13	16	22	10	9	11	31	45	25	54	68	67.8		
7-Oct-07	81	63	33	38	84	34	23	9	9	7	9	7	7	11	10	9	42	11	27	41	21	10	13	13	84.0		
8-Oct-07	23	11	9	15	22	22	15	18	25	37	16	13	26	19	38	48	40	66	33	21	80	47	42	79	79.6		
9-Oct-07	29	90	50	72	86	75	20	10	71	53	14	14	10	10	11	12	10	13	8	11	7	9	8	9	89.6		
10-Oct-07	15	12	11	11	7	7	8	7	9	7	9	10	10	8	10	16	30	22	7	7	8	10	29	42	41.9		
11-Oct-07	8	11	10	9	10	8	7	7	9	27	13	13	11	11	12	10	8	6	8	14	32	14	14	14	32.3		
12-Oct-07	16	12	6	7	10	18	19	14	13	7	13	63	59	36	76	17	24	27	90	60	59	17	12	17	90.1		
13-Oct-07	29	36	21	23	39	23	53	36	19	10	10	10	9	10	12	14	10	7	7	9	6	5	7	4	53.4		
14-Oct-07	5	8	8	9	10	6	8	22	41	24	13	12	20	54	79	19	18	7	25	26	9	33	88	56	88.2		
15-Oct-07	38	15	33	22	5	17	37	50	49	30	50	57	40	42	75	26	42	34	31	9	14	18	75	27	75.1		
16-Oct-07	80	70	96	73	82	61	85	88	64	79	41	24	67	38	34	15	16	14	70	25	63	29	13	25	96.3		
17-Oct-07	34	8	16	12	9	13	22	54	67	14	9	11	23	55	23	12	11	7	56	33	17	10	10	12	67.0		
18-Oct-07	23	51	32	30	76	88	91	70	49	60	16	39	38	65	20	20	26	11	17	22	22	53	42	75	91.5		
19-Oct-07	38	74	66	87	38	46	32	54	7	12	14	39	58	26	16	18	7	9	33	69	23	36	28	25	87.0		
20-Oct-07	14	18	15	28	34	24	22	30	17	20	48	23	23	13	20	9	15	8	9	14	33	10	25	9	47.8		
21-Oct-07	13	32	20	13	4	8	9	13	8	11	10	10	12	9	11	9	7	6	15	11	9	37	18	11	36.7		
22-Oct-07	33	14	9	9	6	7	7	35	48	14	19	14	P	P	P	13	11	20	18	38	20	30	8	25	47.8		
23-Oct-07	10	38	26	32	30	26	25	19	10	14	17	18	13	15	12	8	8	9	9	7	8	7	6	6	38.0		
24-Oct-07	7	7	10	7	6	8	48	9	12	9	10	11	11	9	10	10	9	9	7	7	8	7	7	4	47.9		
25-Oct-07	6	5	6	8	7	7	7	6	6	8	8	9	9	9	13	9	11	12	9	8	10	15	16	8	15.9		
26-Oct-07	6	9	14	8	11	10	15	9	59	41	79	15	14	23	29	29	11	8	12	12	9	11	6	6	79.3		
27-Oct-07	4	5	4	5	6	7	6	5	7	28	51	67	45	46	24	16	33	66	16	7	12	63	24	32	67.4		
28-Oct-07	15	39	26	26	9	10	14	48	16	9	16	34	73	23	66	60	48	41	38	36	8	27	9	65	72.8		
29-Oct-07	43	47	9	21	36	26	21	7	13	23	37	22	23	13	20	12	6	6	9	10	10	10	10	40	46.9		
30-Oct-07	33	45	32	12	37	9	9	12	31	11	10	9	9	11	11	11	8	12	13	8	20	12	9	9	45.0		
31-Oct-07	16	44	19	24	24	37	23	8	7	67	14	11	14	12	23	11	9	8	12	18	10	7	8	16	67.3		

Hourly Max	81	90	96	94	86	88	91	88	71	79	79	67	73	65	79	60	48	66	90	69	80	70	88	79
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1-hr Average Wind Rose (in km/hr) Located at the Valleyview Site for October 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	356
5	to	10	212
10	to	20	153
20	to	30	19
30	to	40	0
	>	40	0
Total Non-Zero Values			741

PASZA

Monthly Passive Data Summary

Table 1. PASZA Passive Stations for October 2007

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
Duplicates					
29a	Smoky Heights	0.2	31.2	3.8	
29b	Smoky Heights	0.3	31.0	3.2	
30a	Fitzsimmons	0.1	26.9	1.8	
30b	Fitzsimmons	0.2	24.3	0.1	
44a	Peavine	0.1	28.7	0.9	
44b	Peavine	0.0	27.9	0.9	
45a	Gift lake	0.1	23.5	1.7	
45b	Gift lake	0.0	23.1	1.8	
54a	Ronan	N/A	N/A	N/A	
54b	Ronan	N/A	N/A	N/A	
49a	Grande Prairie HP	0.1	20.1	18.9	
49b	Grande Prairie HP	0.1	21.1	15.0	
1	Silver Valley	0.1	30.6	1.9	08-27-081-11 W6M
2	Bay Tree	0.1	30.6	0.0	13-16-078-13 W6M
3	Forth Creek	0.3	34.3	2.1	04-13-082-07 W6M
4	Gordondale	0.2	37.2	1.2	04-34-078-10 W6M
5	Boone Creek	0.1	25.3	1.8	01-23-076-11 W6M
7	Steeprock Creek	0.0	34.4	0.8	09-35-072-13 W6M
9	Spirit River	0.2	31.5	2.6	08-12-079-07 W6M
10	Woking	0.4	30.5	N/A	01-13-076-07 W6M
11	Webber Creek	0.2	29.7	1.6	09-36-074-09 W6M
12	Hythe	N/A	N/A	N/A	14-36-072-11 W6M
14	Sylvester	0.0	24.4	1.1	08-06-069-12 W6M
16	Beaverlodge	0.2	30.2	2.8	15-36-071-10 W6M
17	Poplar	0.1	27.6	1.7	13-06-073-08 W6M
18	Saddle Hills	0.1	29.1	2.7	04-25-074-07 W6M
19	Wanham	0.3	30.1	1.5	16-22-077-03 W6M
20	Shaftesbury	0.1	23.4	1.1	04-03-082-23 W5M
21	Eaglesham	0.1	23.9	1.5	16-21-079-25 W5M
23	Bear Lake	0.0	23.8	2.4	15-31-072-06 W6M
24	Wembley	0.0	22.8	2.2	12-31-070-08 W6M
25	Pinto Creek	0.0	25.2	1.6	04-24-069-11 W6M
26	Flyingshot	0.1	23.6	2.8	15-36-070-07 W6M

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

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
27	Grande Prairie I	0.2	23.3	7.9	08-15-071-06 W6M
28	Clairmont Lake	0.2	29.9	2.4	09-06-073-04 W6M
29	Smoky Heights	0.3	31.1	3.5	04-06-075-02 W6M
30	Fitzsimmons	0.2	25.6	1.0	15-36-072-03 W6M
32	Gold Creek	0.0	18.7	2.5	06-33-067-05 W6M
33	Wapiti	0.1	28.5	1.8	02-25-071-03 W6M
34	Puskaskau	0.0	23.7	1.0	15-35-074-25 W5M
35	Jean Cote	0.2	26.1	3.0	12-35-079-21 W5M
36	Guy	0.2	27.9	1.8	03-04-076-22 W5M
37	Crooked Creek	0.2	30.5	2.9	16-01-071-26 W5M
38	Karr Creek	N/A	N/A	N/A	10-16-065-02 W6M
39	Clouston Creek	0.2	26.5	1.4	12-01-073-22 W5M
40	McLennan	0.5	26.3	1.6	03-29-077-19 W5M
41	Valleyview	0.6	30.7	1.8	09-30-069-22 W5M
42	Sunset House	0.4	32.2	1.3	05-32-070-19 W5M
43	High Prairie	0.1	26.3	2.4	16-13-074-17 W5M
44	Peavine	0.1	28.3	0.9	03-05-079-15 W5M
45	Gift Lake	0.0	23.3	1.7	10-07-079-12 W5M
46	Little Smoky	0.2	22.0	3.7	12-01-065-21 W5M
47	Kinuso	0.1	24.9	1.9	12-10-073-10 W5M
48	Deer Mountain	0.1	26.0	1.6	15-22-068-09 W5M
49	Grande Prairie HP	0.1	20.6	17.0	17-26-071-06 W6M
50	Clear River	0.2	24.4	1.3	SE-03-084-12 W6M
51	Bear Canyon	0.6	27.0	1.1	SE-28-085-12 W6M
52	Worsley	0.1	25.0	1.4	NE-34-085-07 W6M
53	Hines Creek	0.1	24.3	1.1	SW-09-084-04 W6M
54	Ronan	N/A	N/A	N/A	SE-03-082-04 W6M
55	Cadotte Lake School	0.2	49.5	1.7	NE-23-086-16 W5M
56	Simon Lake Store	0.6	26.8	1.5	SE-32-086-17 W5M
57	Dixonville	0.0	29.0	1.4	SE-14-087-24 W5M
58	Queen Elizabeth Park	0.2	29.0	1.7	NW-19-083-23 W5M
59	Blue Sky	0.1	26.7	2.2	SW-35-081-02 W6M
60	Gerry Lake	0.0	27.3	0.8	SW-22-084-02 W6M
61	Musreau Lake	0.0	29.8	0.9	NE-22-064-05 W6M

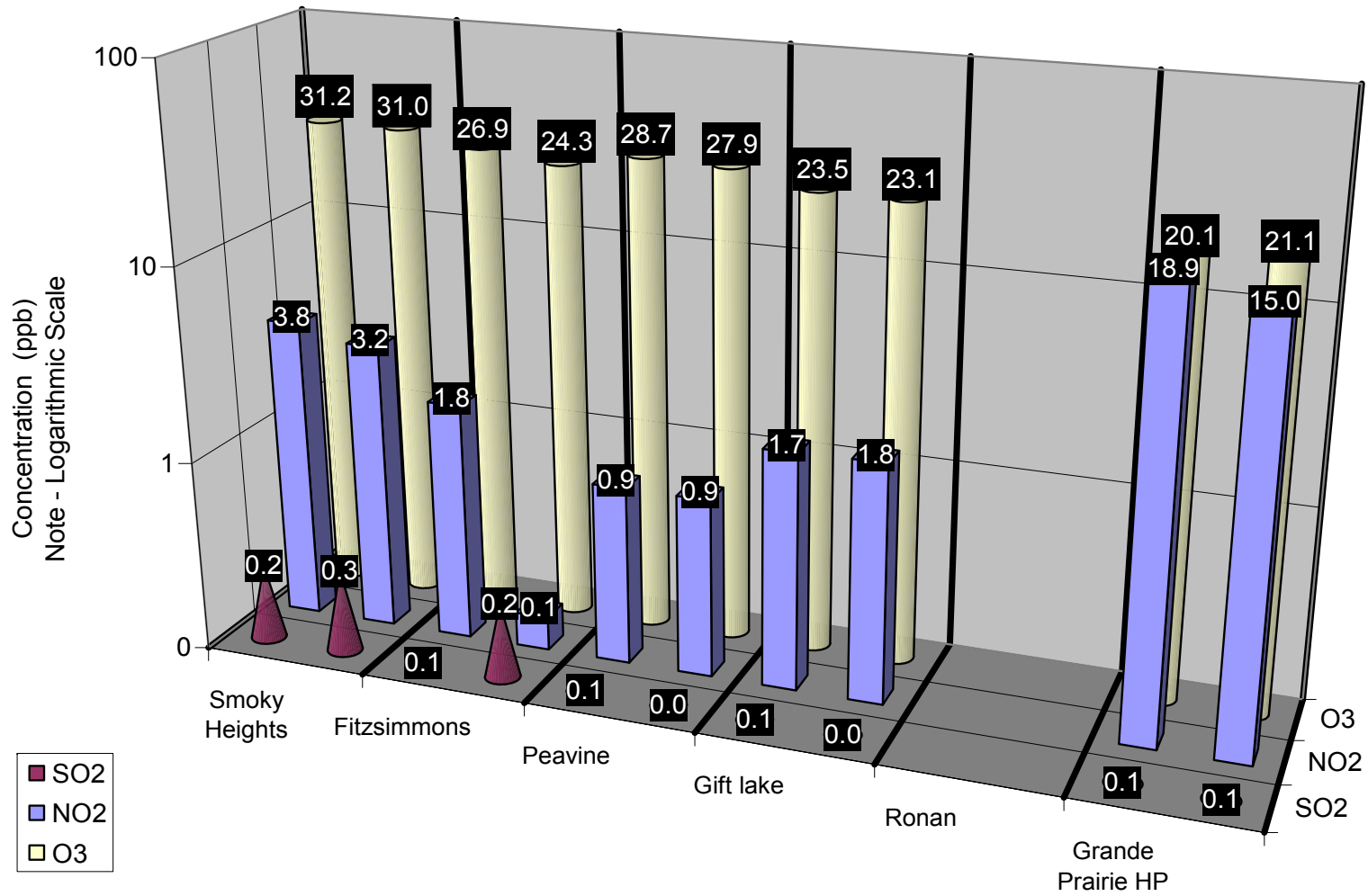


Figure 62. Duplicate Summary Chart

Table 2. Passive Summary Results for October 2007

Stats	Sulphur Dioxide	Ozone	Nitrogen Dioxide
	SO ₂	O ₃	NO ₂
	ppb	ppb	ppb
Passive Summary for October 2007 (PASZA Zone)			
Mean	0.2	27.7	2.2
Standard Deviation	0.2	4.8	2.4
Minimum	0.0	18.7	0.0
Minimum At	Wembley (#24)	Gold Creek (#32)	Bay Tree (#2)
Maximum	0.6	49.5	6.0
Maximum At	Simon Lake Store (#56)	Cadotte Lake School	Grande Prairie HP (#49)
Comparison between Continuous and Passive monitoring at Beaverlodge (passive #16 Beaverlodge)			
	SO ₂	O ₃	NO ₂
AENV Beaverlodge station	0.3	25.3	3.5
PASZA Beaverlodge passive	0.2	30.2	2.8
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	19.2	11.3
PASZA Grande Prairie passive	0.1	20.6	17.0
Comparison between Continuous and Passive monitoring at Spirit River (passive #9 Spirit River)			
	SO ₂	O ₃	NO ₂
PASZA Portable Spirit River station	0.3	25.0	3.0
PASZA Spirit River passive	0.2	31.5	2.6

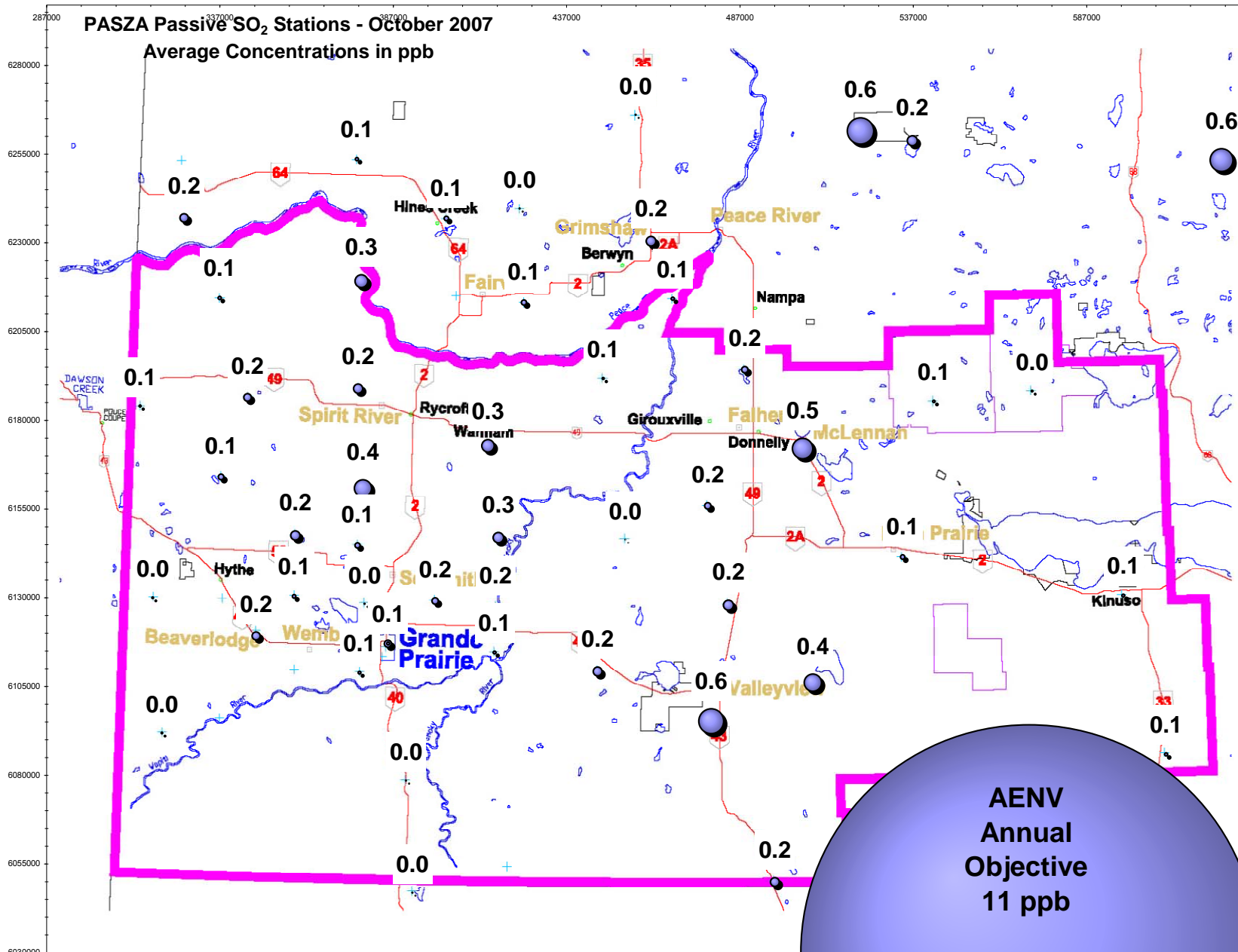


Figure 63. SO₂ Bubble Chart

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

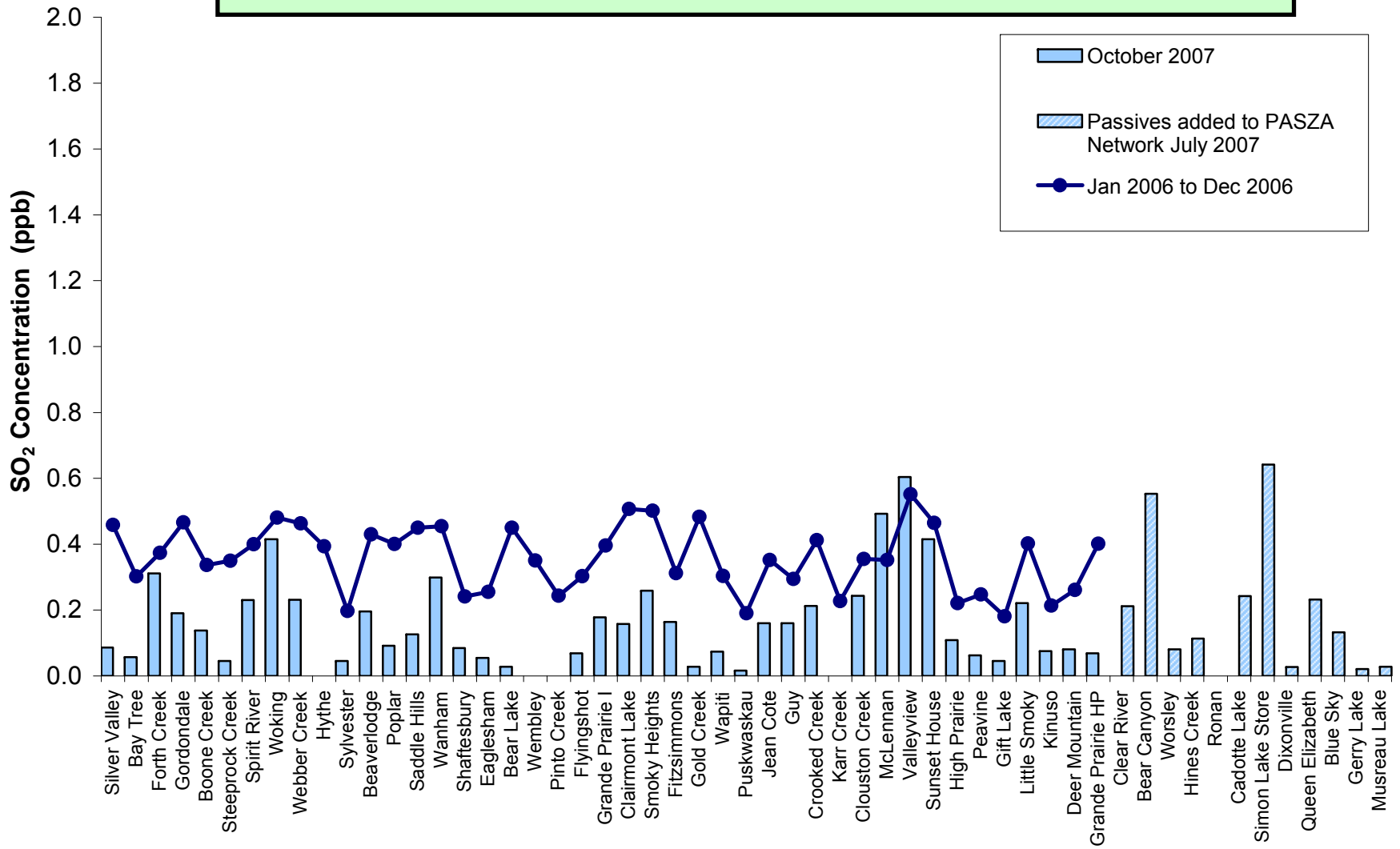


Figure 64. SO₂ Summary Chart

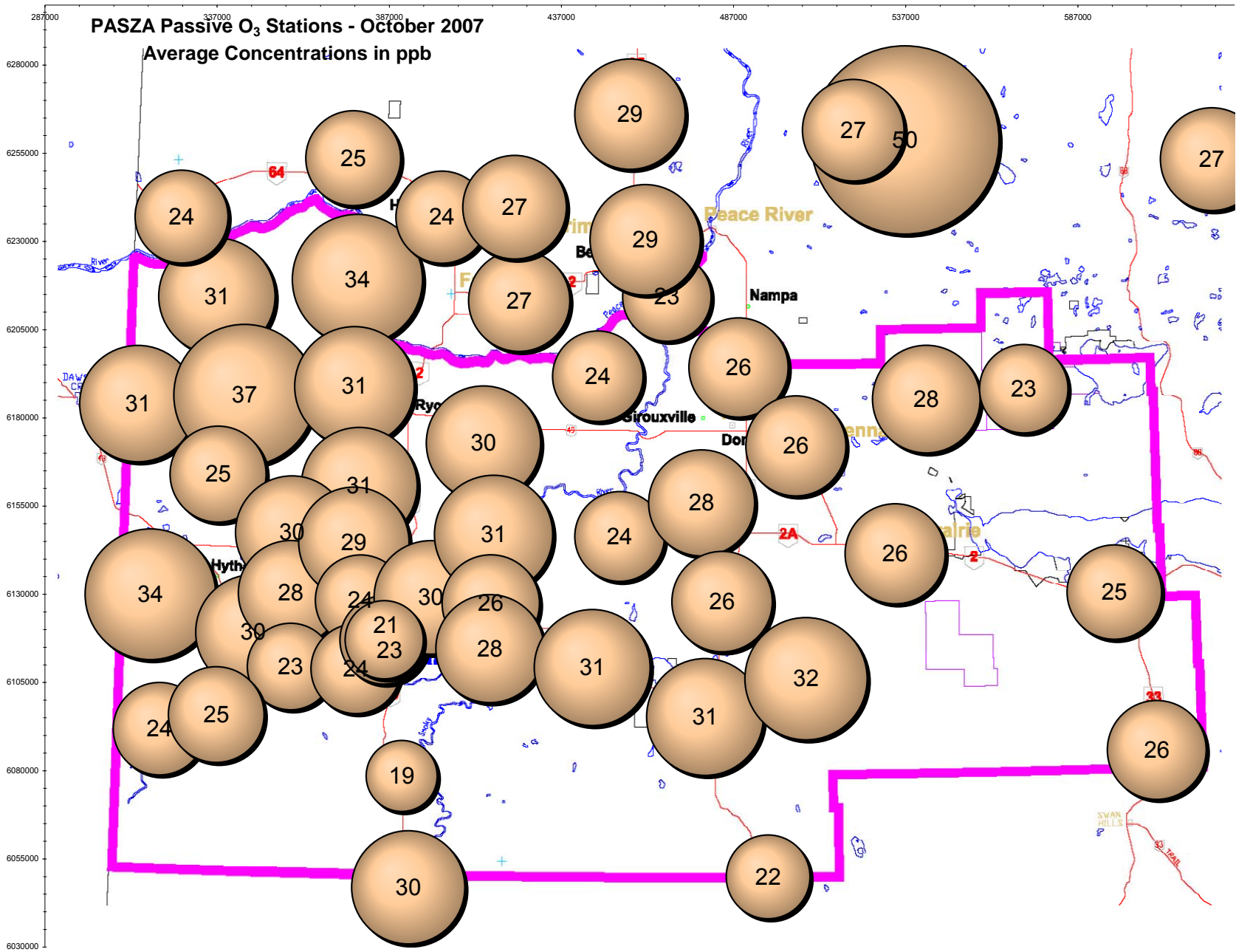


Figure 65. O₃ Bubble Chart

Alberta Ambient Air Quality Objective - No Annual O₃ Objective

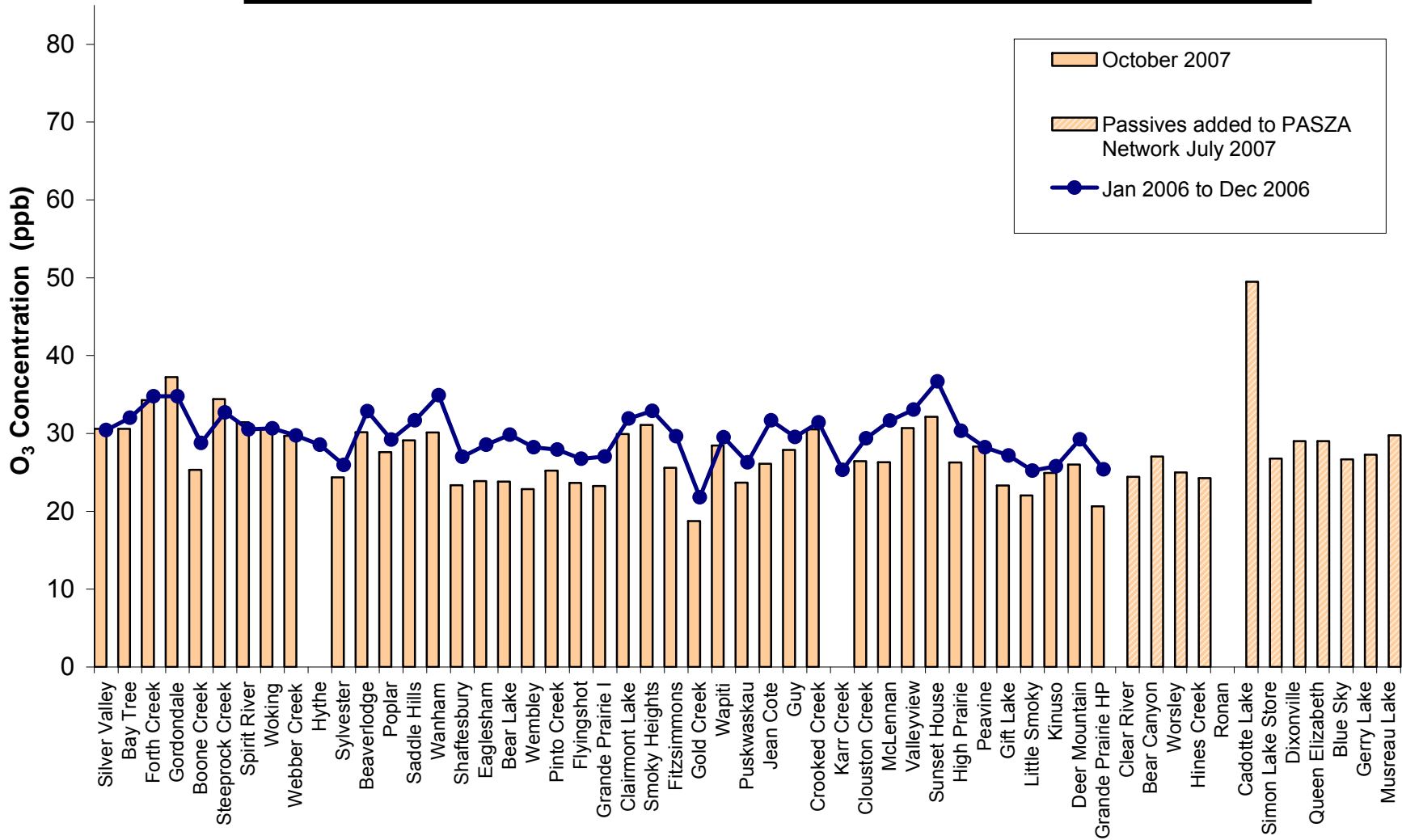


Figure 66. O₃ Summary Chart

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

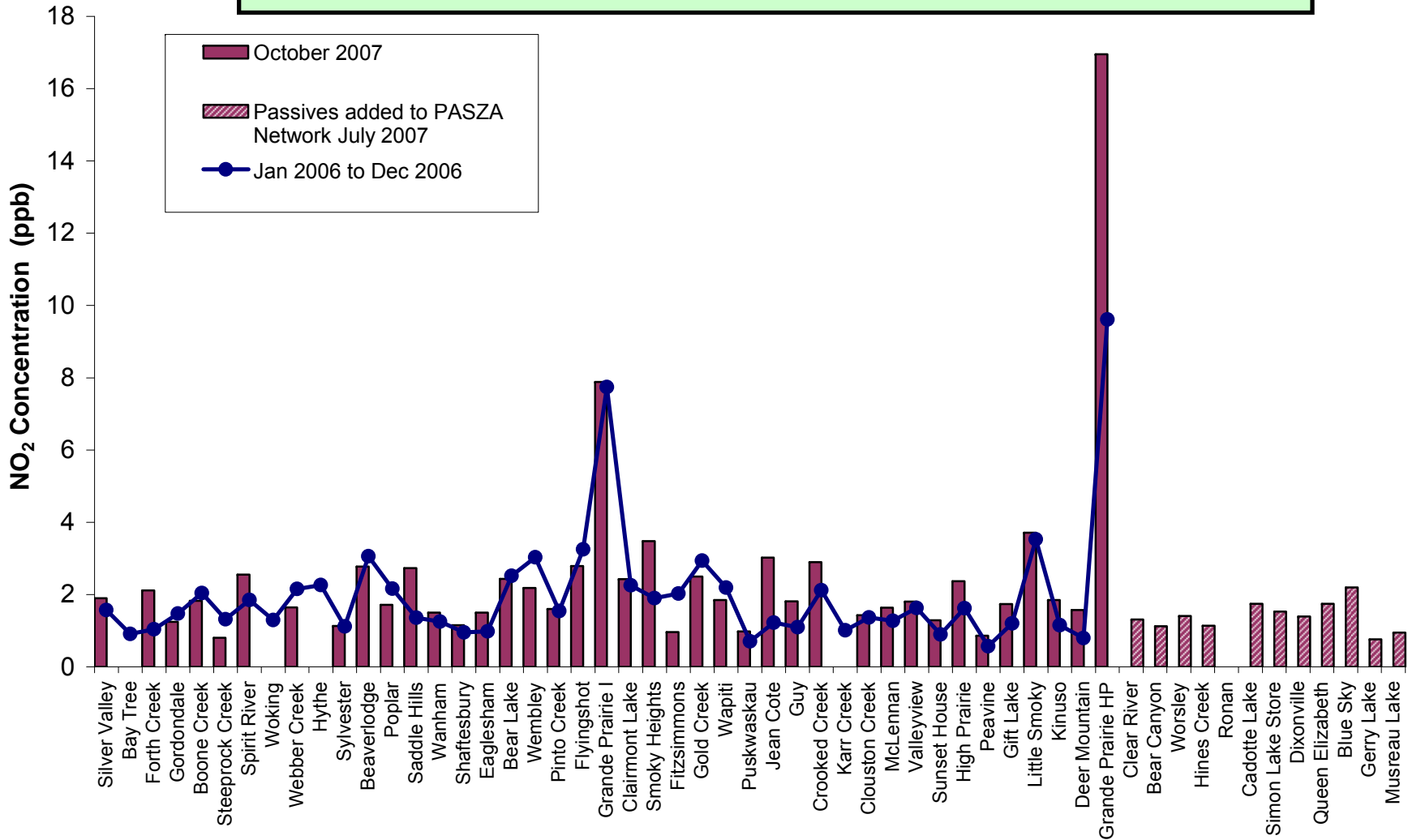


Figure 68. NO₂ Summary Chart

October 2007 Calibration Reports

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

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

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

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

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

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

Calibration Report

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

Station Information

Calibration Date	October 9, 2007	Previous Calibration	September 10, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	10:30	End Time (MST)	13:11
Barometric Pressure	0.924 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	50.3 ppb	Cal Gas Expiry Date	1/2/2009
		Cal Gas Cylinder #	LL16161
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	10
	Before		After
Calculated slope	1.014477	Calculated slope	1.015561
Calculated intercept	-0.415416	Calculated intercept	-1.091765
Analyzer make	TEI 43C	Analyzer serial #	610816292

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	7.3		7.3	
Coefficient	0.785		0.785	
Pressure	659.3	mm Hg	652.7	mm Hg
Flow	0.460	lpm	0.462	lpm
Lamp Voltage	44688	Hz	44181	Hz

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)
4991	0.00	0.0	0.0	N/A
4991	39.82	398.1	392.5	1.0143
4991	19.95	200.3	198.9	1.0067
4991	9.96	100.2	100.7	0.9952
4991	0.00	0.0	0.0	As Found Zero
4991	39.93	399.2	392.5	As Found Span
Average Correction Factor				1.0054

Calculated value of As Found Response: 397.8 ppb Percent Change of As Found: 0.4%

	before calibration		after calibration	
Auto zero	-0.3	ppb	0.5	ppb
Auto span	344.6	ppb	344.1	ppb

Notes: No adjustments or maintenance required

Calibration Performed By: Conor Whiteley

Calibration Summary

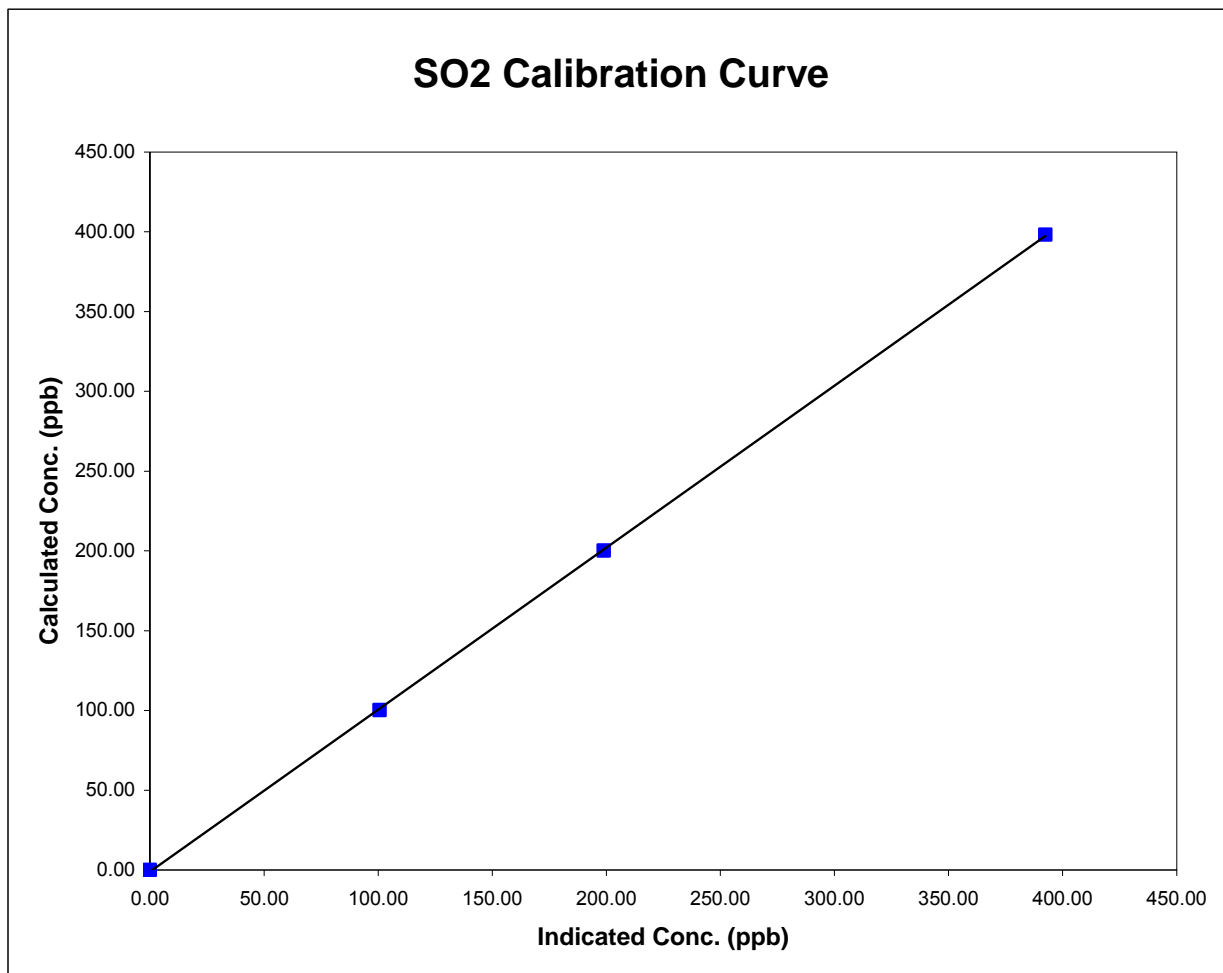
Parameter **SO2**Air Monitoring Network **PASZA**

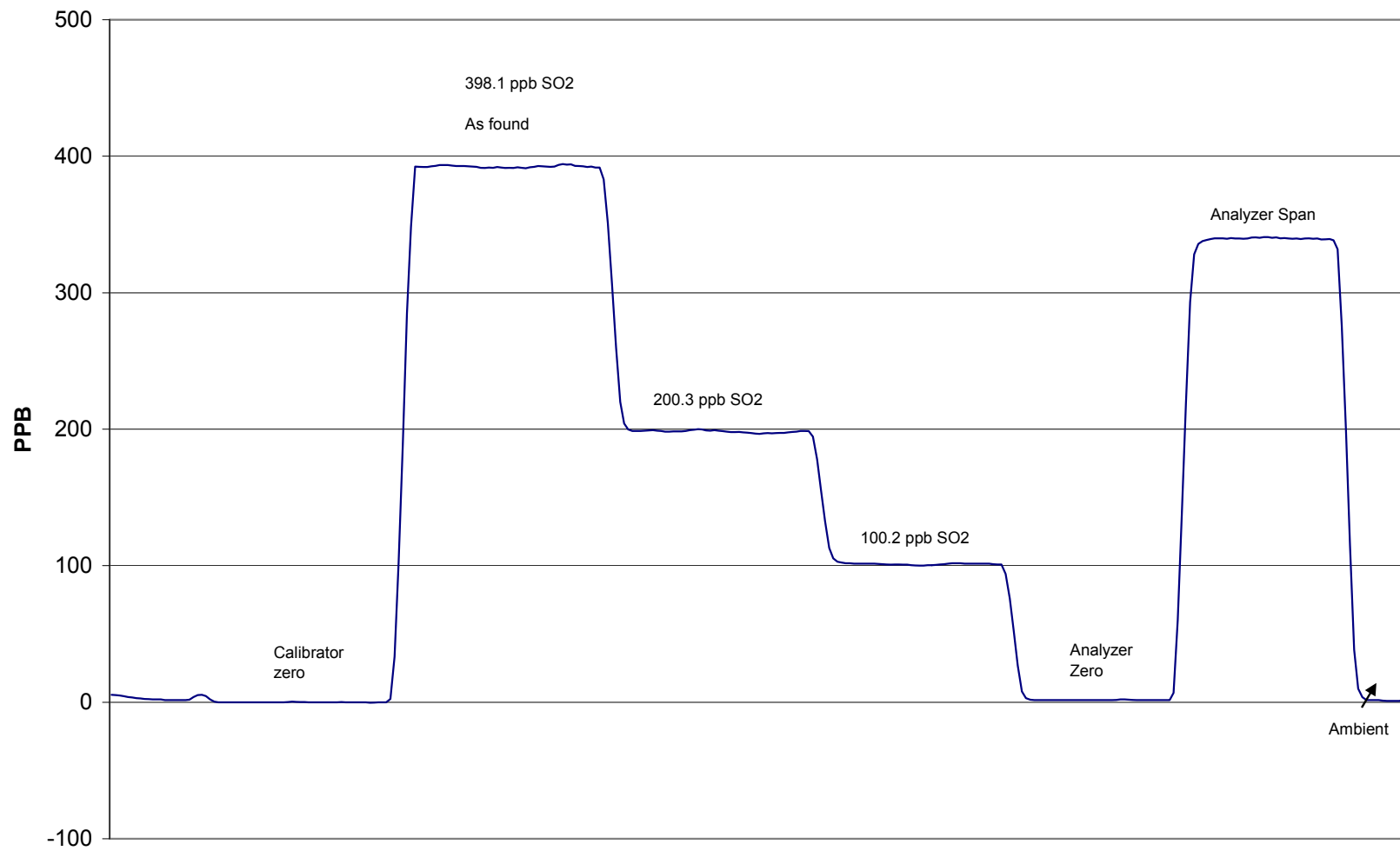
Station Information

Calibration Date	October 9, 2007	Previous Calibration	September 10, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	10:30	End Time (MST)	13:11
Analyzer make/model	TEI 43C	Analyzer serial #	610816292

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
398.1	392.5	1.0143	Correlation Coefficient	0.999968
200.3	198.9	1.0067		
100.2	100.7	0.9952	Slope	1.015561
			Intercept	-1.091765



Henry Pirker - SO2 Calibration**October 9, 2007**

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA

**Station Information**

Calibration Date	October 9, 2007	Previous Calibration	September 13, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Installation	<input type="checkbox"/> Removal
Start Time (MST)	10:30	End Time (MST)	14:31
Barometric Pressure	0.924 Atm	Station Temperature	21.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
NO Cal Gas Conc	48.9 ppm	Cal Gas Expiry Date	1/2/2009
NOx Cal Gas Conc	48.9 ppm	Cal Gas Serial #	LL16161

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	Data Slope	1.006426	1.007094	1.007052
	Data Offset	0.131535	-1.815009	-1.962039
After	Data Slope	0.993843	0.997197	1.001047
	Data Offset	-0.206897	-1.706207	-1.352586
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model Teco 42C Analyzer serial # 508011073

Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO background	7.8	ppb	7.8	mV
NOx background	8.2	ppb	8.2	mV
NO coefficient	0.678		0.678	
NOx coefficient	1.000		1.000	
Chamber Temp	49.9	Deg C	49.6	Deg C
Cooler Temp	-2.4	Deg C	-2.4	Deg C
Converter Temp	318.0	Deg C	319.0	Deg C
Vacuum	168.1	mm Hg	167.3	mm Hg

Notes:

Calibration Report



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

Station Information

Calibration Date: **October 9, 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	4991	0.00	0.0	0.0	0.0	0.1	0.0	-0.2	N/A	N/A
1	4991	39.82	387.1	387.1	0.0	389.0	387.3	1.7	0.9949	0.9994
2	4991	19.95	194.7	194.7	0.0	197.7	196.5	1.2	0.9847	0.9907
3	4991	9.96	97.4	97.4	0.0	101.1	100.0	1.0	0.9637	0.9735
AFZ	4991	0.00	0.0	0.0	0.0	-0.2	0.0	-0.2	0.0000	0.0000
AFS	4991	39.82	387.1	387.1	0.0	389.0	387.3	1.7	0.9949	0.9994
Average Correction Factor									0.9811	0.9878

As Found Concentrations: NO_x= 387.4 NO= 385.4 As Found Percent Change NO_x= 0.1% NO= -0.4%

GPT Calibration Data

Dilution Flow 4991 ccm Source Gas Flow 39.84 ccm

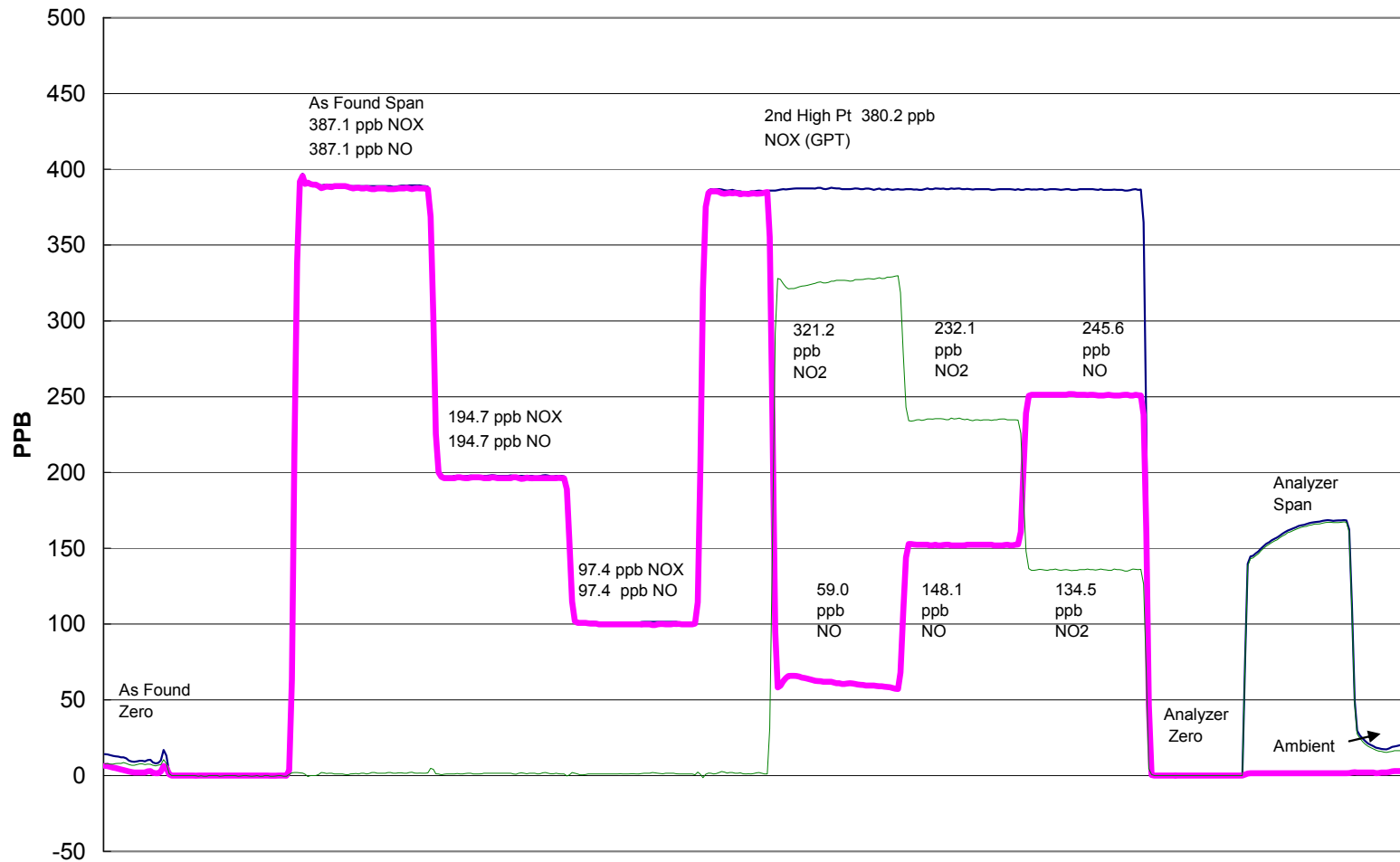
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	384.2	383.4	0.9	385.9	384.3	1.6	0.9956	0.9975	N/A	N/A
300	384.2	60.2	324.0	387.3	61.5	325.9	0.9921	0.9791	0.9942	100.6%
200	384.2	150.9	233.4	387.1	152.1	235.1	0.9928	0.9922	0.9925	100.8%
100	384.2	250.2	134.1	386.7	251.2	135.7	0.9935	0.9957	0.9881	101.2%
Average Correction Factor							0.9928	0.9890	0.9916	100.8%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	0.2	1.0	1.0	ppb	0.9	1.0	1.0	ppb
Auto span	169.6	170.0	0.0	ppb	165.0	164.5	0.1	ppb

Calibration Performed By: Conor Whiteley

Henry Pirker - NOx Calibration



October 9, 2007

Calibration Summary

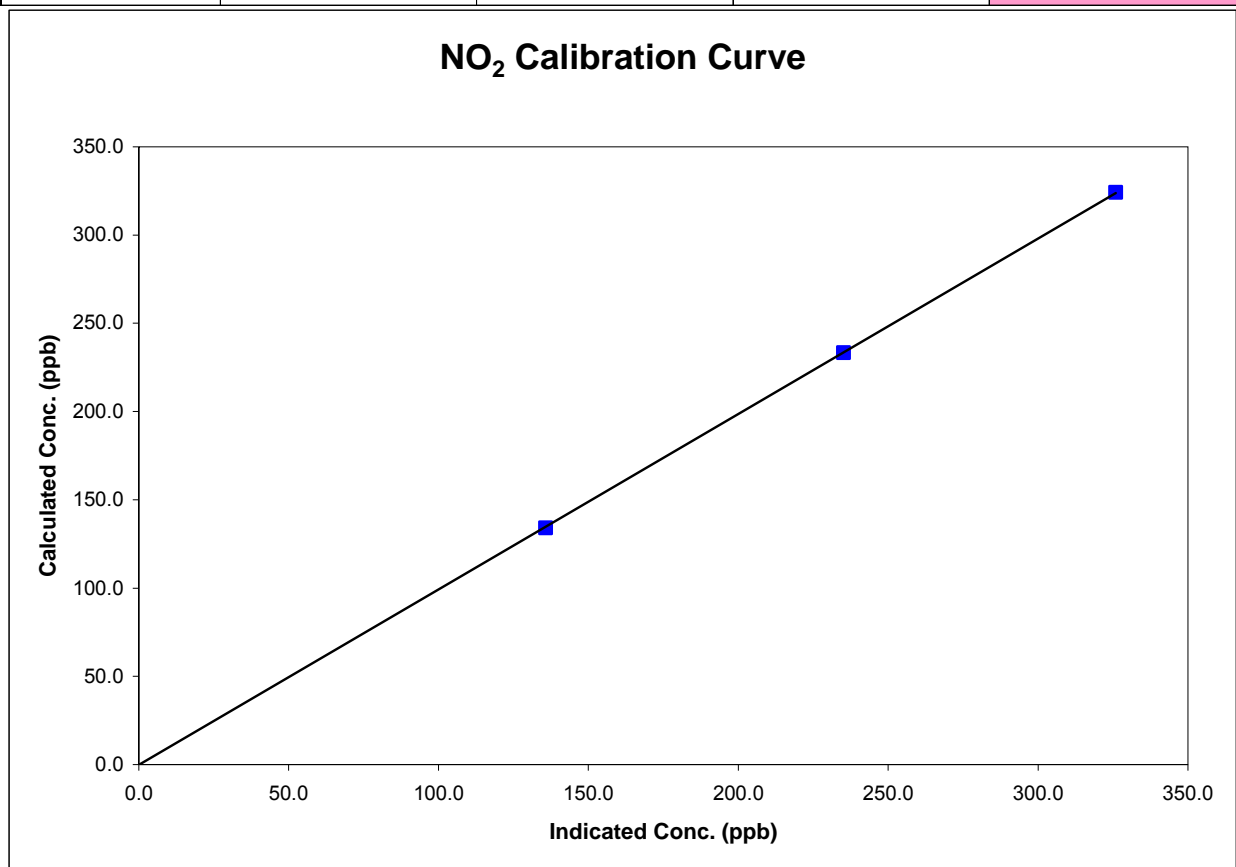
Parameter **NO₂**Air Monitoring Network **PASZA**

Station Information

Calibration Date	October 9, 2007	Previous Calibration	September 13, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	10:30	End Time (MST)	14:31
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		
324.0	325.9	0.9942	Correlation Coefficient	0.999990
233.4	235.1	0.9925		
134.1	135.7	0.9881	Slope	0.993843
			Intercept	-0.206897



Calibration Summary

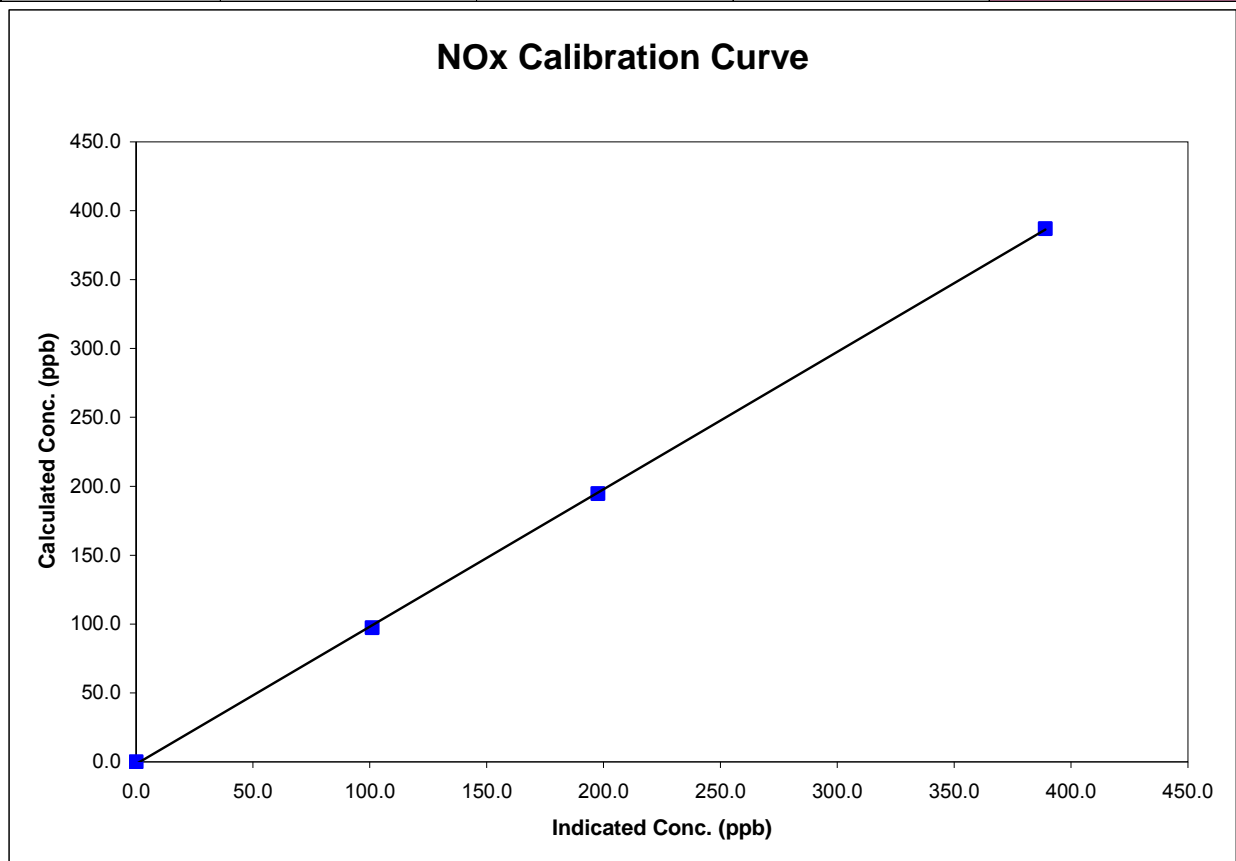
Parameter **NO_x**Air Monitoring Network **PASZA**

Station Information

Calibration Date	October 9, 2007	Previous Calibration	September 13, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	10:30	End Time (MST)	14:31
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		
387.1	389.0	0.9949	Correlation Coefficient	0.999918
194.7	197.7	0.9847		
97.4	101.1	0.9637	Slope	0.997197
			Intercept	-1.706207



Calibration Summary

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

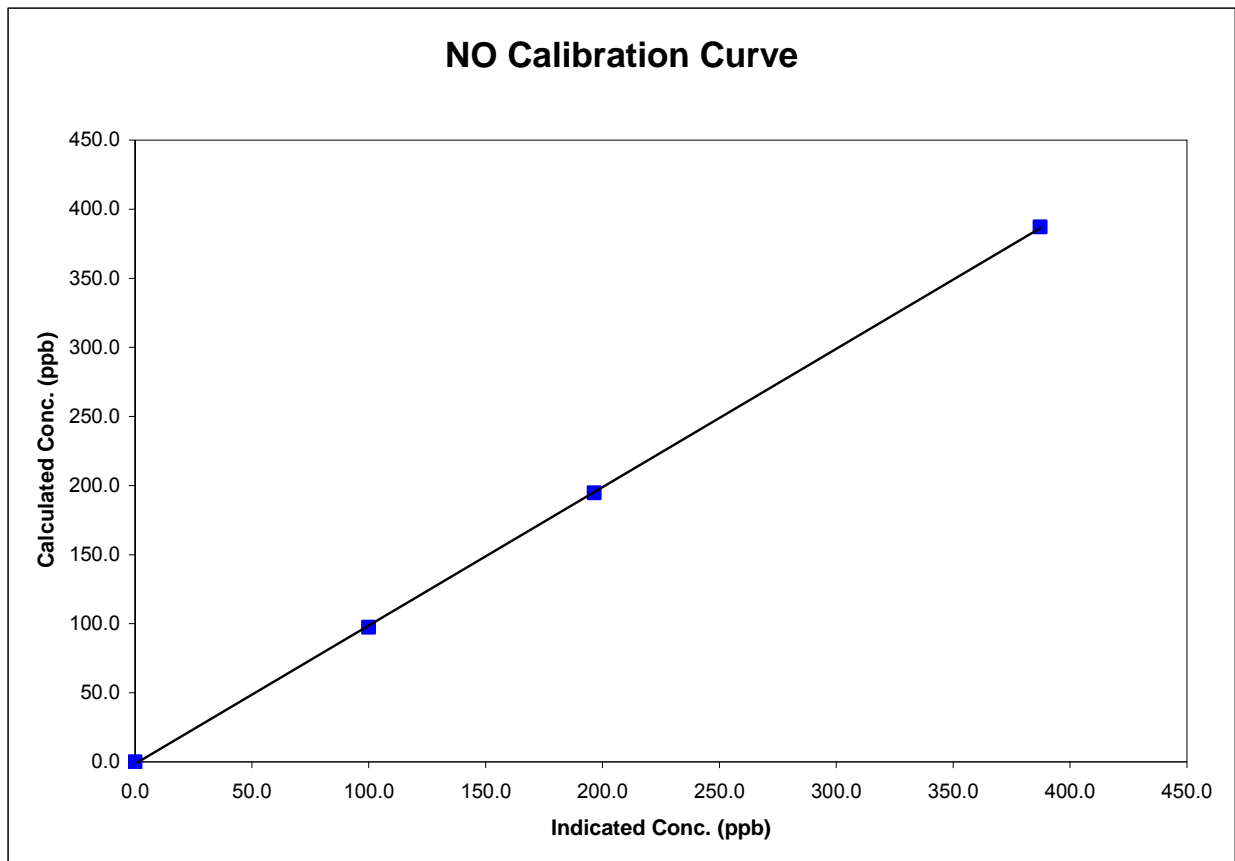


Station Information

Calibration Date	October 9, 2007	Previous Calibration	September 13, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	10:30	End Time (MST)	14:31
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
387.1	387.3	0.9994	Correlation Coefficient	0.999941
194.7	196.5	0.9907		
97.4	100.0	0.9735		
			Slope	1.001047
			Intercept	-1.352586



Calibration Report

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

Station Information

Calibration Date	October 9, 2007	Previous Calibration	September 13, 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)	14:05	End Time (MST)	18:00
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
	Before		After

Calculated slope	1.002950	Calculated slope	0.982354
Calculated intercept	0.184010	Calculated intercept	-0.920463

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

	before		after	
Concentration range	500	ppb	500	ppb
offset	-0.7	ppb	-0.7	ppb
slope	1.042		1.042	
O3 Lamp temp	71.1	mV	71.1	mV
Intensities	97452/75415	mV	97452/75415	mV
Pressure	702.9	inches Hg	702.9	inches Hg
Flow A	669	ccm	669	ccm
Flow B	684	Deg C	684	Deg C

Calibration Data

Referenced concentration (ppb)	Dilution air flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
0	4992	0.0	2.1	N/A
300	4992	324.0	333.0	0.9730
200	4992	233.4	235.7	0.9902
100	4992	134.1	136.8	0.9803
0	4992	0.0	2.1	As found zero
300	4992	324.0	333.0	As found span
Average Correction Factor				0.9811

Calculated value of As Found Response: 332.0 ppm Percent Change of As Found: 2.5%

	before calibration		after calibration	
Auto zero	-1.5	ppb	-2.8	ppb
Auto span	298.7	ppb	327.4	ppb

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary



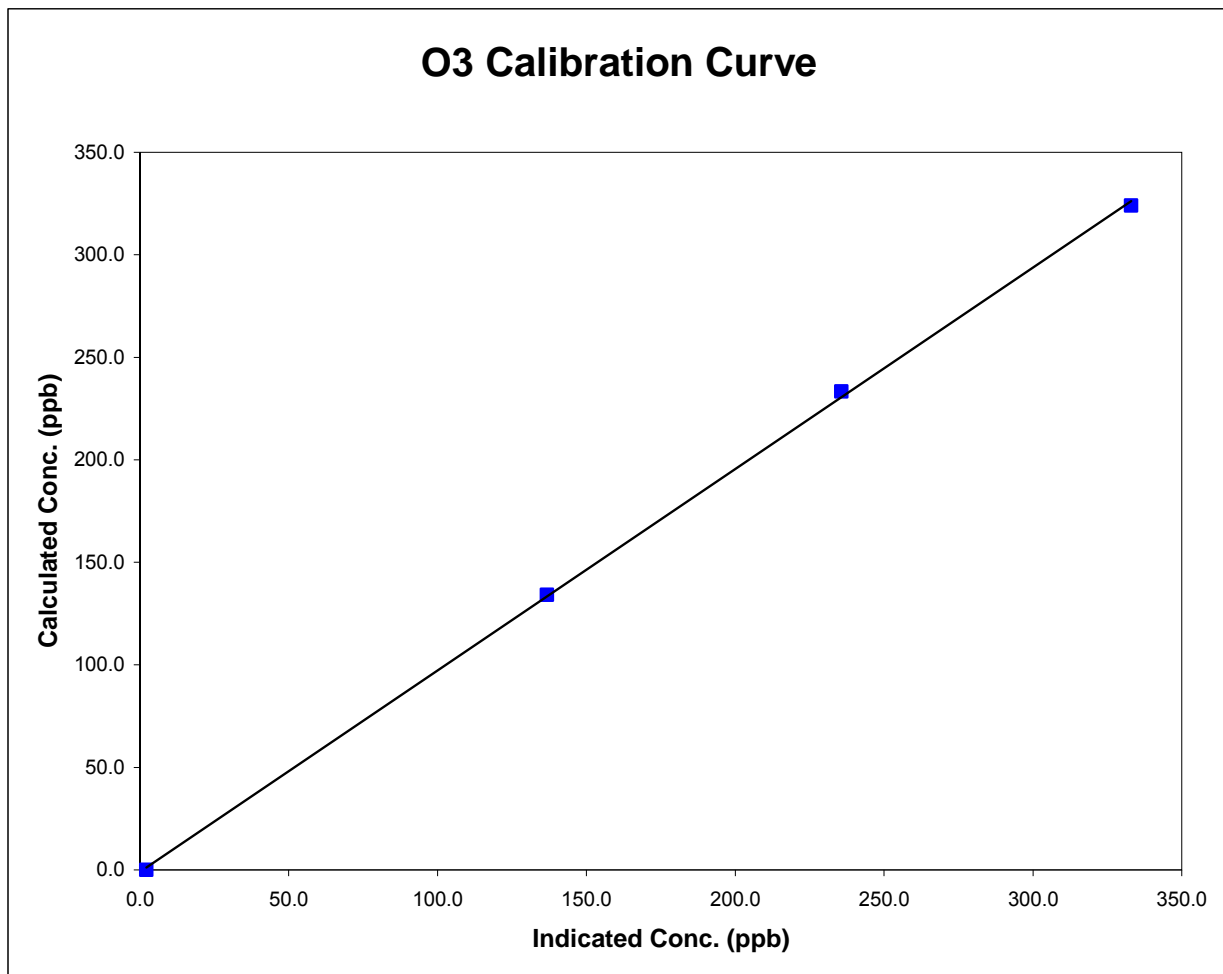
Parameter **O3**
 Air Monitoring Network **PASZA**

Station Information

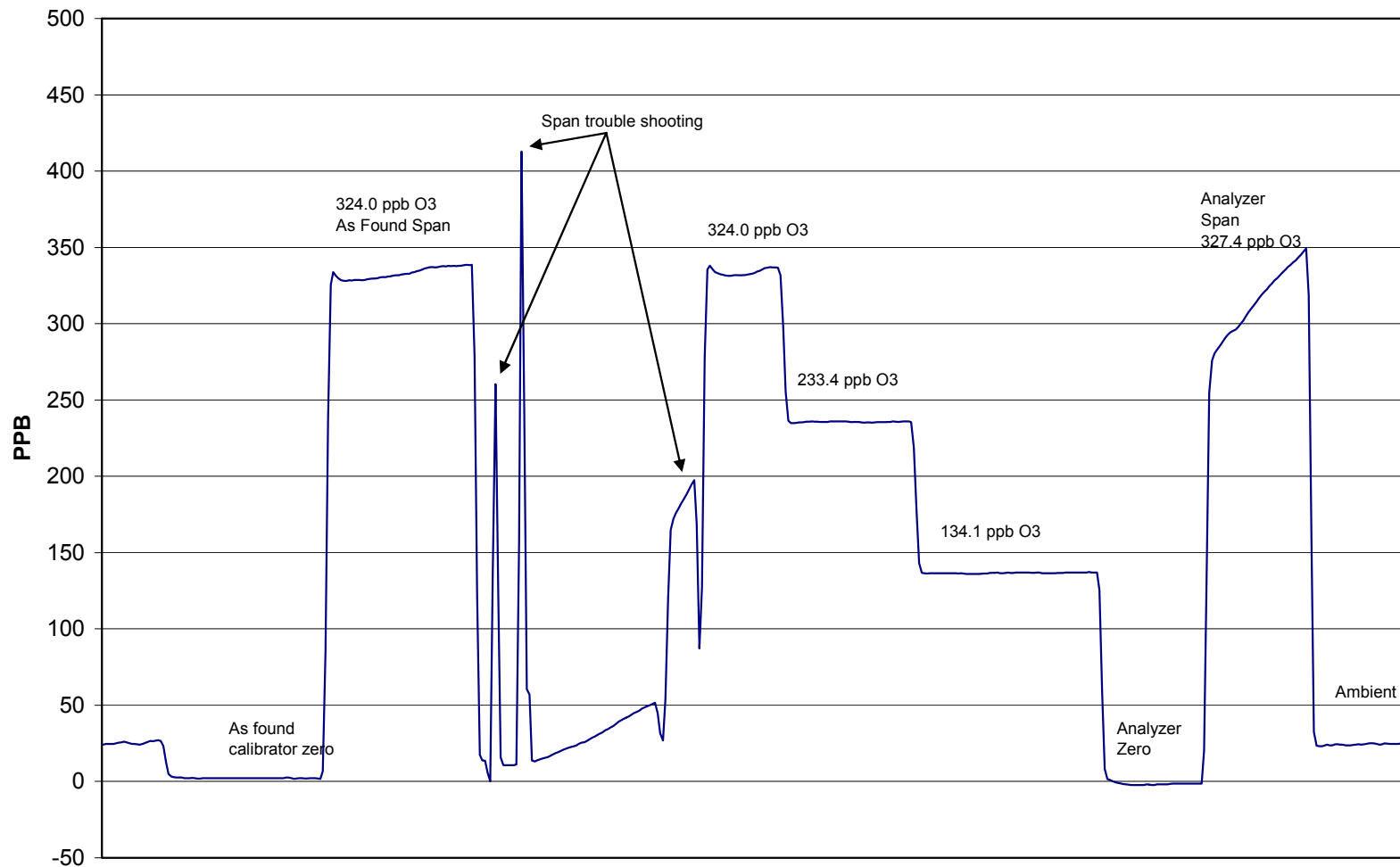
Calibration Date	October 9, 2007	Previous Calibration	September 13, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	14:05	End Time (MST)	18:00
Analyzer make/model	TECO 49C	Analyzer serial #	607415761

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	2.1	NA		
324.0	333.0	0.9730	Correlation Coefficient	0.999752
233.4	235.7	0.9902		
134.1	136.8	0.9803	Slope	0.982354
			Intercept	-0.920463



Henry Pirker - O3 Calibration



October 9, 2007

Calibration Report



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

Station Information

Calibration Date	October 11, 2007	Previous Calibration	September 17, 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)	8:50	End Time (MST)	11:30
Barometric Pressure	0.919 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	3000 ppm	Cal Gas Expiry Date	AUG 28/05
		Cal Gas Cylinder #	AAL20565
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.001912	Calculated slope	0.985215
Calculated intercept	-0.614606	Calculated intercept	-0.970100
Analyzer make	TEI Model 48C	Analyzer serial #	508011062

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
CO span setting	1.049		1.049	
CO zero setting	9.937		9.937	
Sample pressure	691.3	mm Hg	684.3	mm Hg
Sample Flow	1.085	LPM	1.112	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	0.92	N/A
4994	39.84	23.74	25.06	0.9476
4994	19.90	11.91	13.09	0.9099
4994	9.98	5.98	7.13	0.8387
4994	0.00	0.00	0.92	As Found Zero
4994	39.84	23.74	25.06	As Found Span
Average Correction Factor				0.8987

Calculated value of As Found Response: 23.568 ppm Percent Change of As Found: 0.7%

	before calibration		after calibration	
Auto zero	0.05	ppm	0.07	ppm
Auto span	19.41	ppm	20.85	ppm

Notes: No adjustments made

Calibration Performed By: Conor Whiteley

Calibration Summary

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

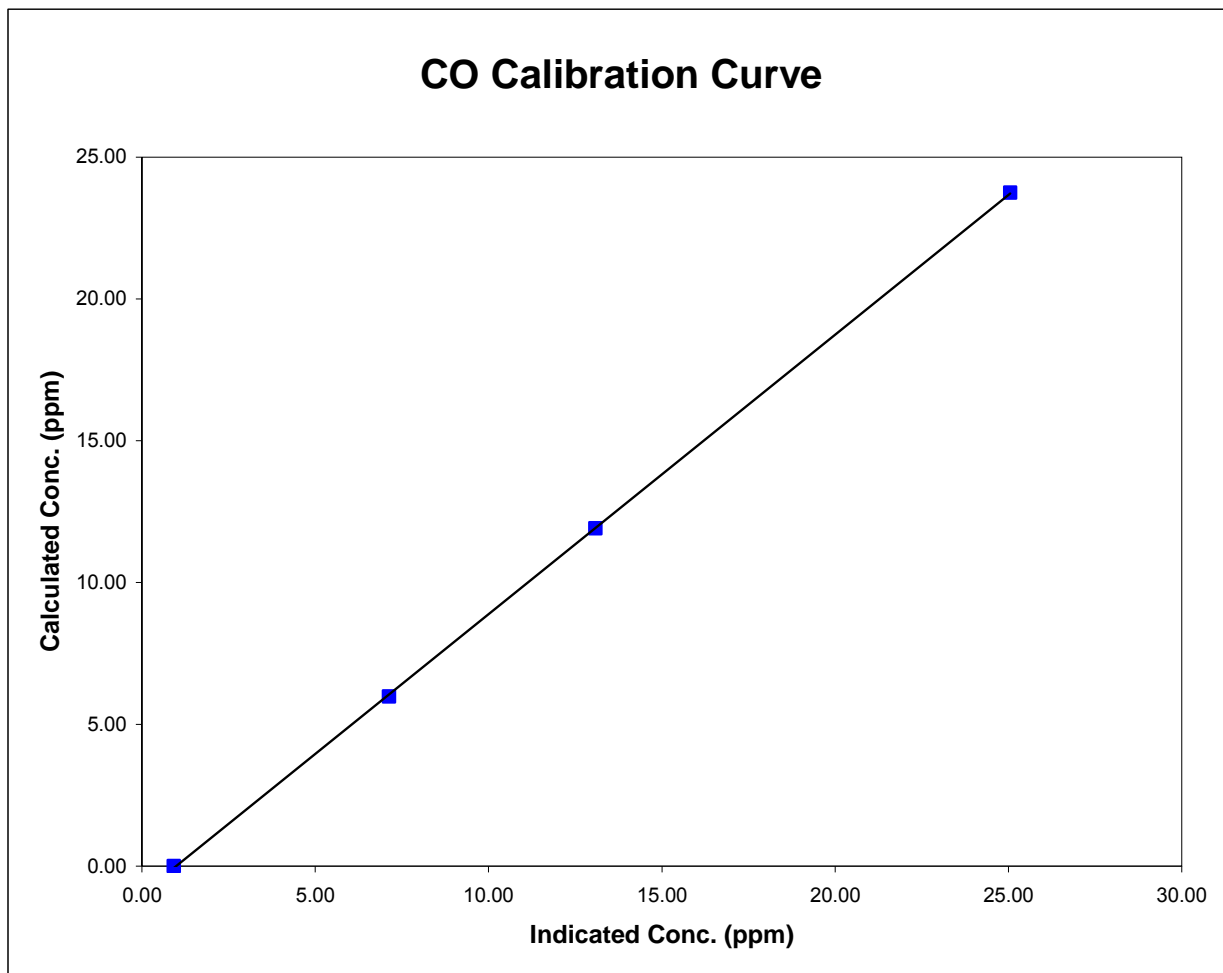


Station Information

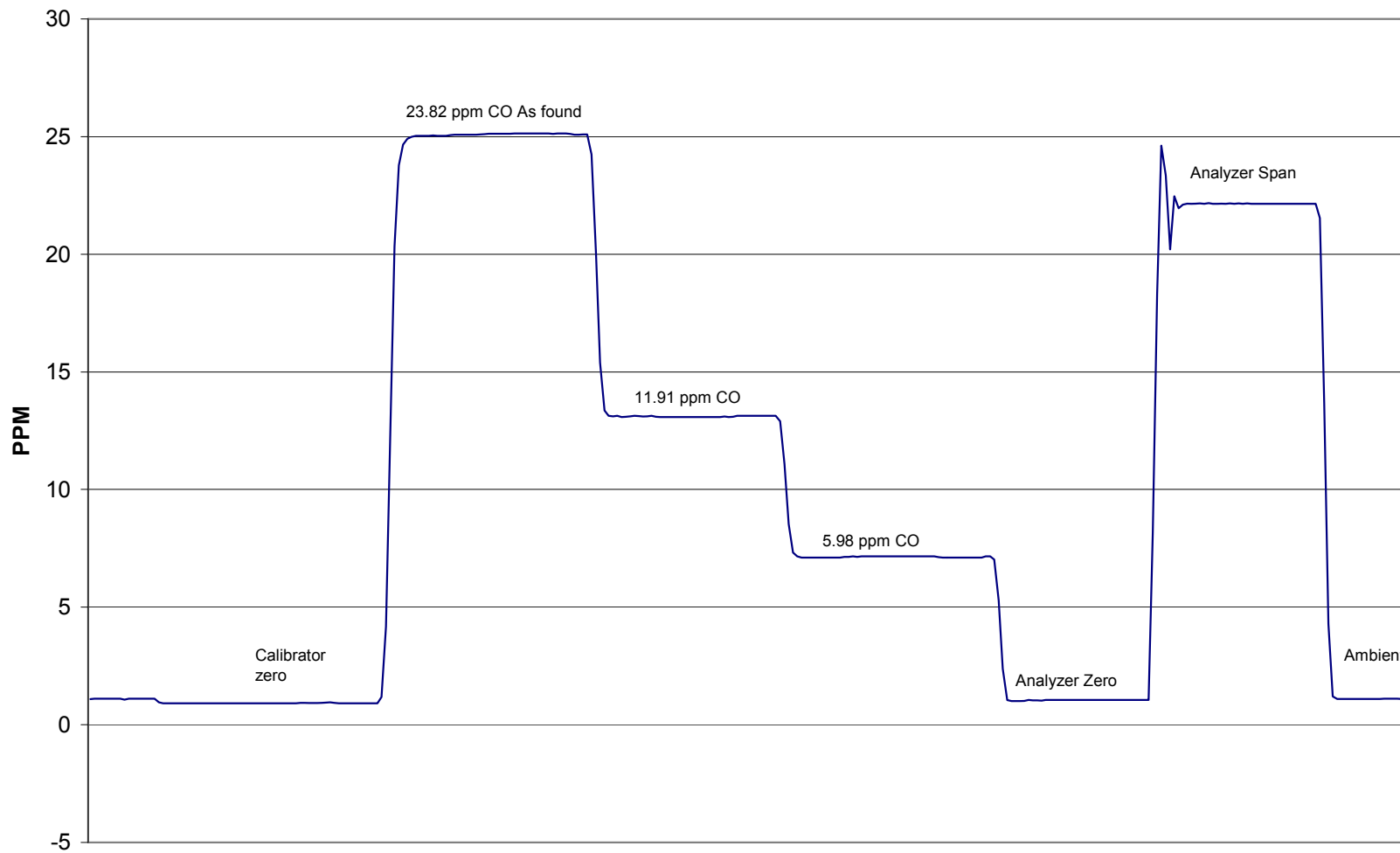
Calibration Date	October 11, 2007	Previous Calibration	September 17, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	8:50	End Time (MST)	11:30
Analyzer make/model	TEI Model 48C	Analyzer serial #	508011062

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.920	N/A		
23.743	25.057	0.9476	Correlation Coefficient	0.999966
11.907	13.086	0.9099		
5.983	7.134	0.8387	Slope	0.985215
			Intercept	-0.970100



Henry Pirker - CO Calibration



October 11, 2007

Calibration Report

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

Station Information

Calibration Date	October 11, 2007	Previous Calibration	September 17, 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)	11:30	End Time (MST)	14:10
Barometric Pressure	0.919 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentration	700 ppm CH4/ 299 ppm C3H8	Cal Gas Expiry Date	12/10/2005
Cal Gas CH4 equiv	1522.25 ppm	Cal Gas Cylinder #	ALM 005412
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.004757	Calculated slope	0.964348
Calculated intercept	-0.213232	Calculated intercept	-0.341680
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	6.26	psi
THC span counts	6889	capture	6889	capture
THC zero counts	879	capture	945	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	0.36	N/A
4994	64.94	19.54	20.63	0.9471
4994	29.96	9.08	9.73	0.9331
4994	9.92	3.02	3.51	0.8606
4992	0.00	0.00	0.36	As Found Zero
4992	64.92	19.54	20.63	As Found Span
Average Correction Factor				0.9136

Calculated value of As Found Response: 20.158 ppm Percent Change of As Found: -3.1%

	before calibration		after calibration	
Auto zero	0.12	ppm	0.13	ppm
Auto span	21.48	ppm	23.77	ppm

Notes: Adjusted Span cylinder flow

Calibration Performed By: Conor Whiteley

Calibration Summary

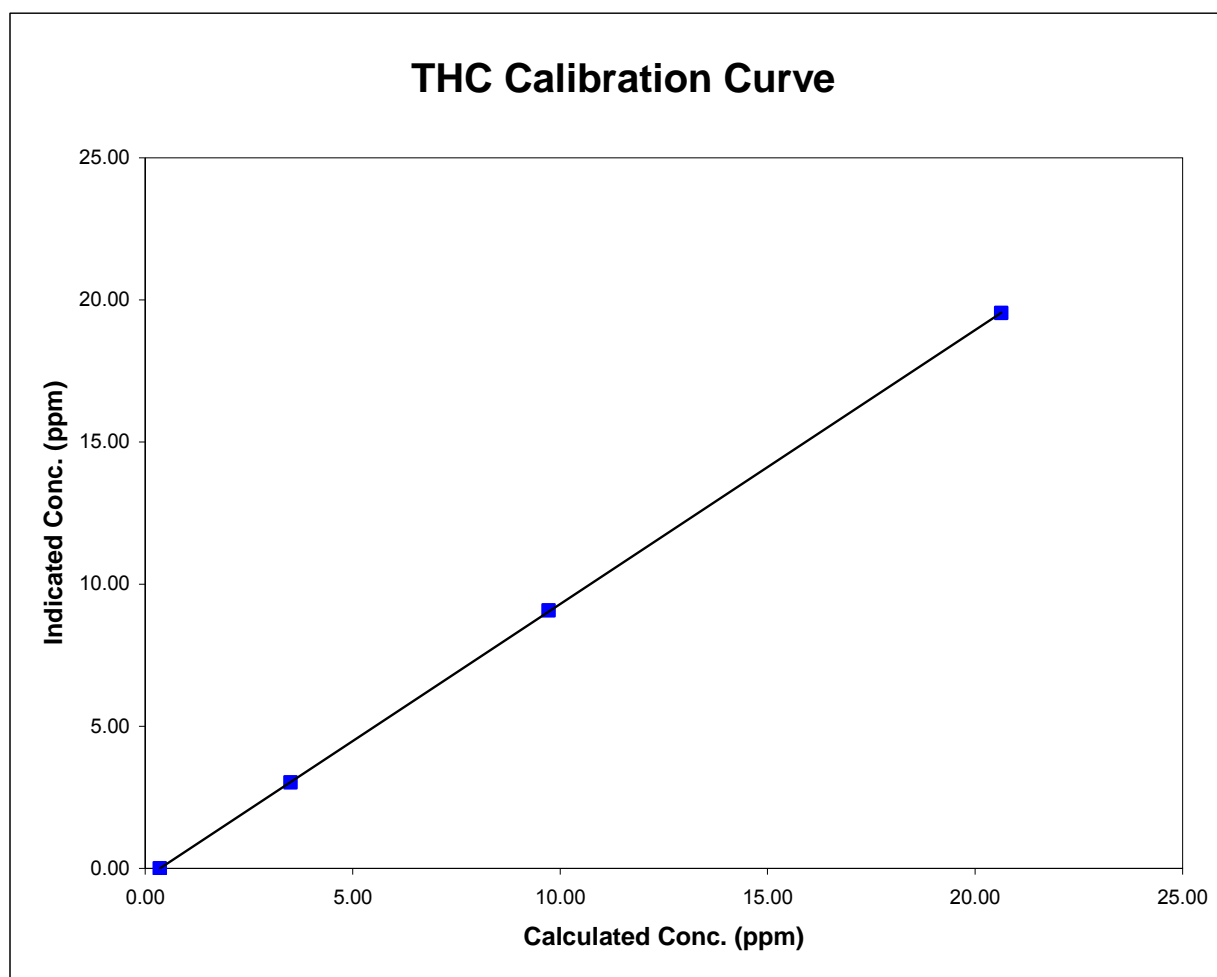
Parameter **THC**Air Monitoring Network **PASZA**

Station Information

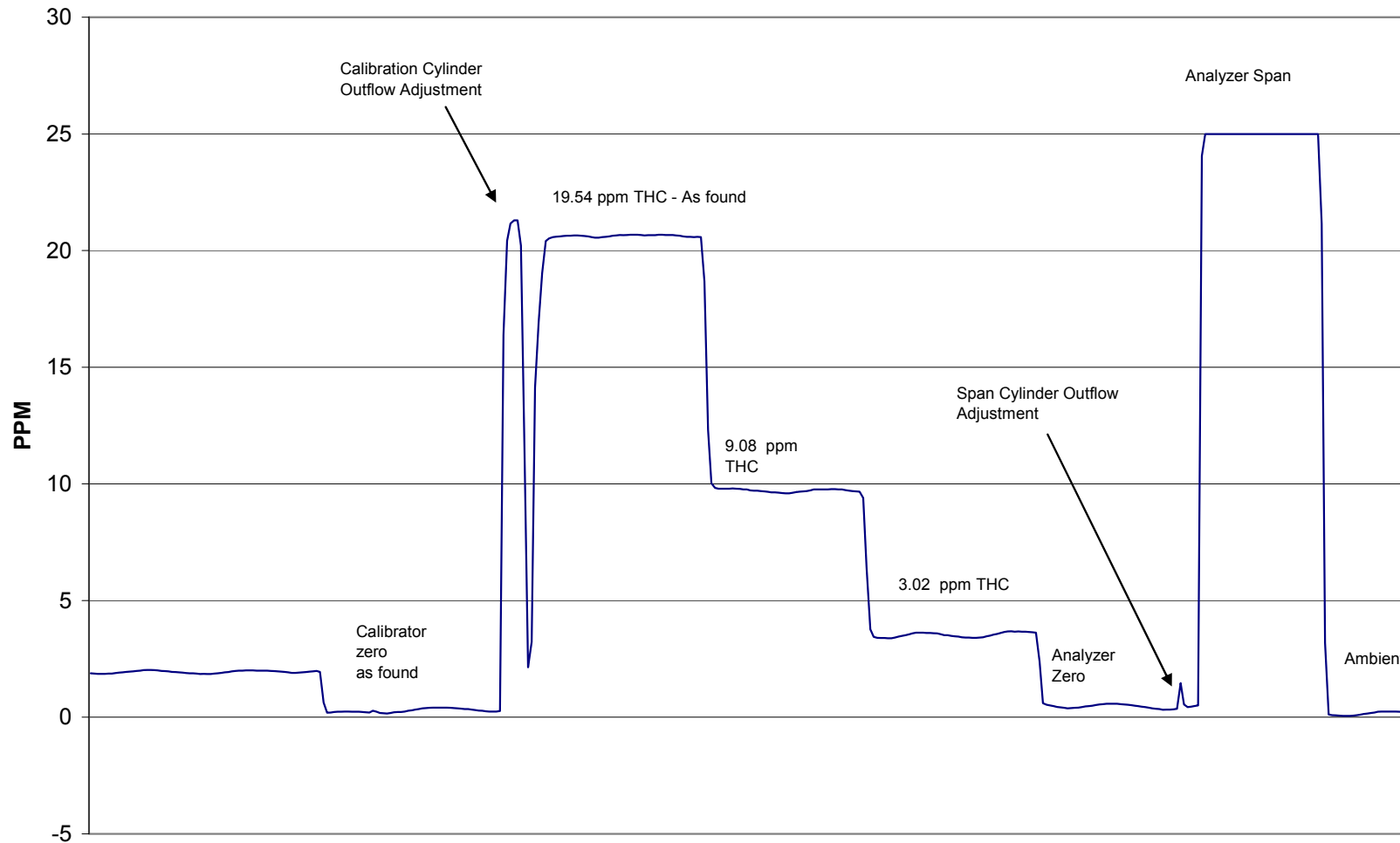
Calibration Date	October 11, 2007	Previous Calibration	September 17, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:30	End Time (MST)	14:10
Analyzer make/model	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.356	N/A		
19.539	20.630	0.9471	Correlation Coefficient	0.999990
9.078	9.728	0.9331		
3.018	3.507	0.8606	Slope	0.964348
			Intercept	-0.341680



Henry Pirker THC Calibration



October 11, 2007

Calibration Report

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

Station Information

Calibration Date	October 10, 2007	Previous Calibration	September 12, 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)	14:40	End Time (MST)	17:15
Barometric Pressure	0.912 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	5.14 ppb	Cal Gas Expiry Date	7/31/2008
		Cal Gas Cylinder #	LL 74274
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.022356	Calculated slope	1.012692
Calculated intercept	0.727135	Calculated intercept	0.408826
Analyzer make	TEI 45C	Analyzer serial #	630718528

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Coefficient	0.871		0.871	
Background	16.8		16.9	
Pressure	661.5	mm Hg	667.6	mm Hg
Flow	458	ccm	462	ccm
Lamp Voltage	795	V	853	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	-0.37	N/A
4994	69.89	70.94	69.85	1.0157
4994	39.94	40.78	39.49	1.0328
4994	9.97	10.25	9.87	1.0384
4994	0.00	0.00	-0.37	As Found Zero
4994	69.89	70.94	69.85	As Found Span
Average Correction Factor				1.0290

Calculated value of As Found Response: 72.5 ppb Percent Change of As Found: -2.2%

	before calibration		after calibration	
Auto zero	0.73	ppb	0.28	ppb
Auto span	36.21	ppb	36.48	ppb

Notes: No adjustments preformed

Calibration Performed By: Conor Whiteley

Calibration Summary



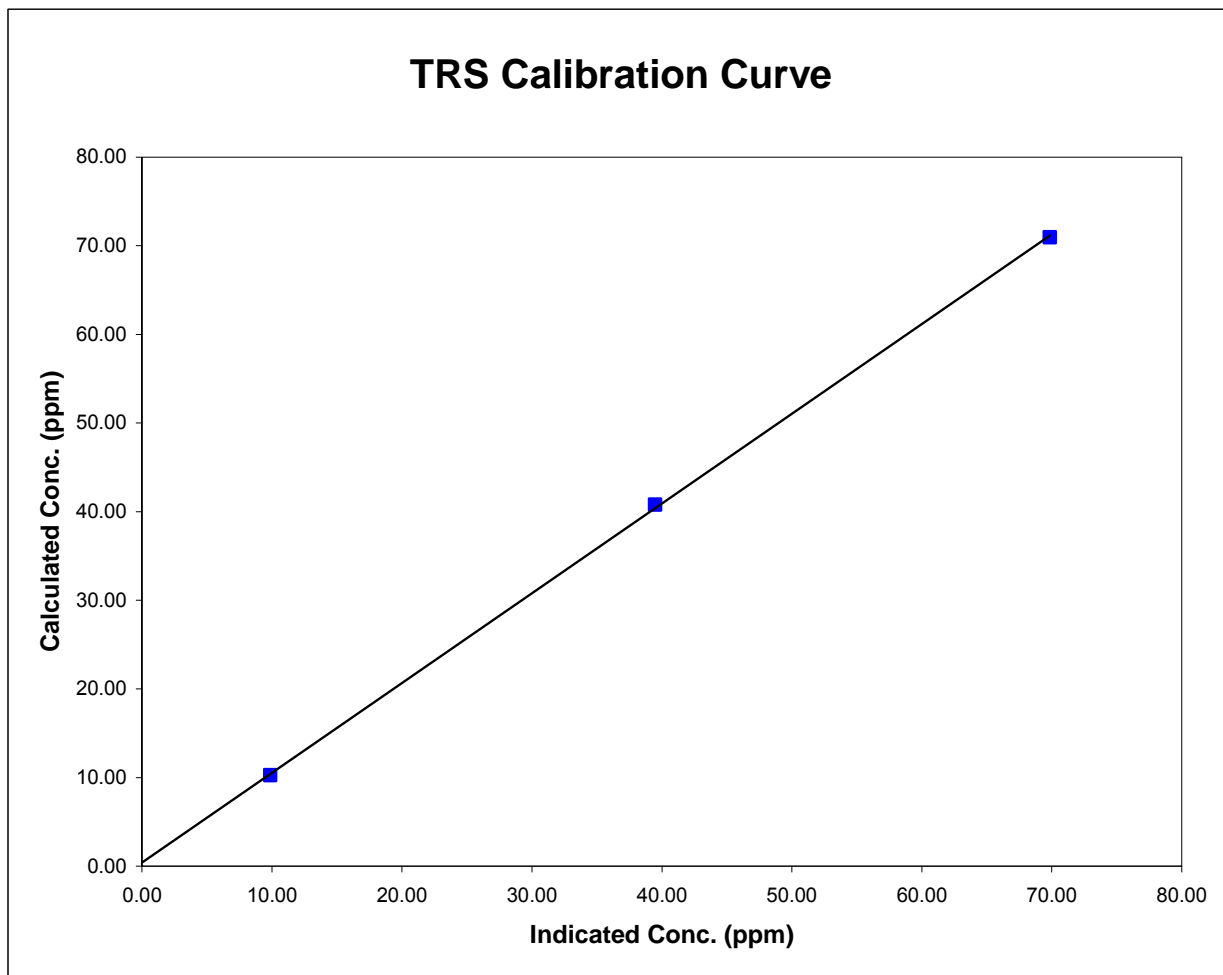
Parameter **TRS**
 Air Monitoring Network **PASZA**

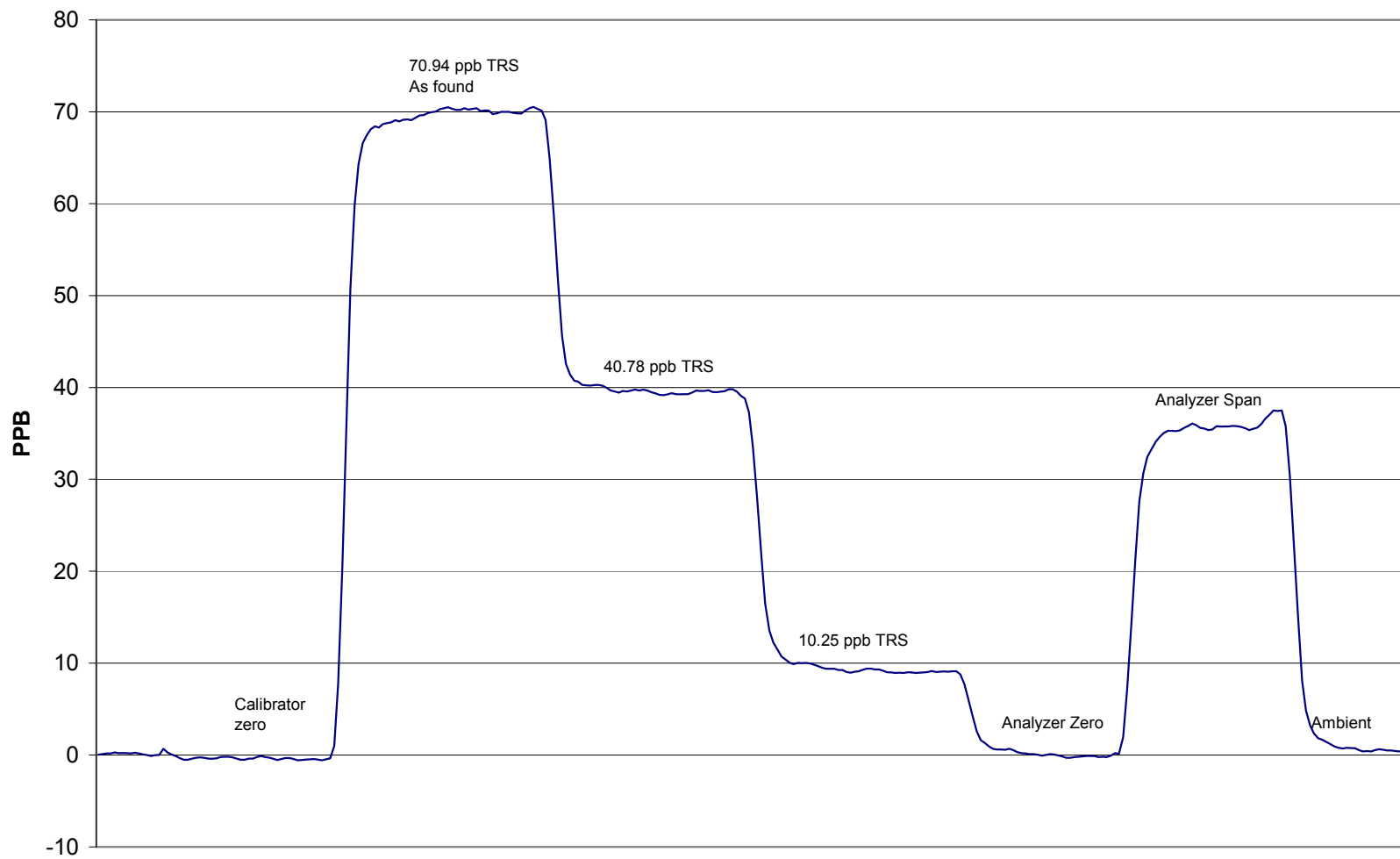
Station Information

Calibration Date	October 10, 2007	Previous Calibration	September 12, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	14:40	End Time (MST)	17:15
Analyzer make/model	TEI 45C	Analyzer serial #	630718528

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.370	N/A		
70.944	69.845	1.0157	Correlation Coefficient	0.999931
40.781	39.486	1.0328		
10.245	9.866	1.0384	Slope	1.012692
			Intercept	0.408826



Henry Pirker TRS Calibration**October 10, 2007**

Calibration Report

Parameter **PM2.5**Air Monitoring Network **PASZA**

Station Information

Calibration Date	October 11, 2007	Previous Calibration	September 17, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	11:45	End Time (MST)	
Barometric Pressure	0.919 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

Analyzer Information

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

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	67	%	14	%
Ko Factor	13020		13020	
Temperature	27.1	Deg C	27.1	Deg C
Pressure	0.921	ATM	0.924	ATM

Calibration Data

Parameter	Set Point	As Found	Tolerance	TEOM Reading
zero flow - main	0.0	0.10		0.10
zero flow - auxillary	0.0	0.29		0.29
flow recovery - main	45 - 60 Seconds	35	45 - 60 Seconds	33
flow recovery - aux	46 - 60 Seconds	40	46 - 60 Seconds	50
Temperature	measured	12.1	+/- 1.0 Deg C	11.7
Pressure	measured	0.919	+/- 1.5% Δ ATM	0.921
Total Flow	16.67 SLPM	16.52		16.50
Auxillary Flow	13.67 SLPM	13.53	+/- 1.0 SLPM	13.70
Main Flow	3.0 SLPM	2.962	+/- 0.2 SLPM	2.995
Leak Check - main	0.0	0.12	<0.15 SLPM	0.13
Leak Check - aux	0.0	0.29	<0.15 SLPM	0.32
Ko Factor (w/o filter)	measured	337.814	filter weight (g)	0.11347
Ko Factor (w/ filter)	measured	239.339	% Ko difference	-0.24%

Notes:

Calibration Performed By: Conor Whiteley

Calibration Report

Parameter **PM2.5**Air Monitoring Network **PASZA**

Station Information

Calibration Date	October 30, 2007	Previous Calibration	October 11, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	7:30	End Time (MST)	
Barometric Pressure	0.927 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

Analyzer Information

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

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	67	%	14	%
Ko Factor	13020		13020	
Temperature	27.1	Deg C	27.1	Deg C
Pressure	0.921	ATM	0.924	ATM

Calibration Data

Parameter	Set Point	As Found	Tolerance	TEOM Reading
zero flow - main	0.0	0.10		0.10
zero flow - auxiliary	0.0	0.29		0.29
flow recovery - main	45 - 60 Seconds	35	45 - 60 Seconds	33
flow recovery - aux	46 - 60 Seconds	40	46 - 60 Seconds	50
Temperature	measured	12.1	+/- 1.0 Deg C	11.7
Pressure	measured	0.919	+/- 1.5% Δ ATM	0.921
Total Flow	16.67 SLPM	16.70		16.50
Auxiliary Flow	13.67 SLPM	13.70	+/- 1.0 SLPM	13.70
Main Flow	3.0 SLPM	3.002	+/- 0.2 SLPM	2.995
Leak Check - main	0.0	0.12	<0.15 SLPM	0.13
Leak Check - aux	0.0	0.29	<0.15 SLPM	0.32
Ko Factor (w/o filter)	measured	337.848	filter weight (g)	0.11347
Ko Factor (w/ filter)	measured	239.278	% Ko difference	-0.12%

Notes: Re Calibrating after power failure caused software to malfunction, software re-loaded

Calibration Performed By: Conor Whiteley

Calibration Report



Parameter

SO₂

Air Monitoring Network

PASZA

Station Information

Calibration Date	October 12, 2007	Previous Calibration	September 4, 2007
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:30	End Time (MST)	13:05
Barometric Pressure	0.926 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	1/2/2009
Correction factor	0.031477	Cal Gas Cylinder #	LL16161
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	6
	Before		After
Calculated slope	0.979450	Calculated slope	1.004370
Calculated intercept	-2.107274	Calculated intercept	1.172309
Analyzer make	Teco 43i	Analyzer serial #	701120008

	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
Background	8.9		8.8	
coefficient	0.928		0.928	
Lamp Voltage	832	volts	832	volts
Chamber Temp	45	Deg C	45	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	674.6	mm Hg	679.5	mm Hg
Sample Flow	451	ccm	454	ccm
Lamp Intensity	89	%	90	%

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4991	0.0	0.00	0.7	N/A
4991	39.84	398.33	396.2	1.0055
4991	19.90	199.76	197.3	1.0125
4991	9.95	100.08	96.3	1.0390
zero	0.0	0.00	0.7	As Found Zero
4991	39.9	399.03	396.2	As Found Span
Average Correction Factor				1.0190

Calculated value of As Found Response: 385.251 ppm

Percent Change of As Found: 3.5%

	before calibration		after calibration	
Auto zero	-1.7	ppm	1.9	ppm
Auto span	275.9	ppm	283.3	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

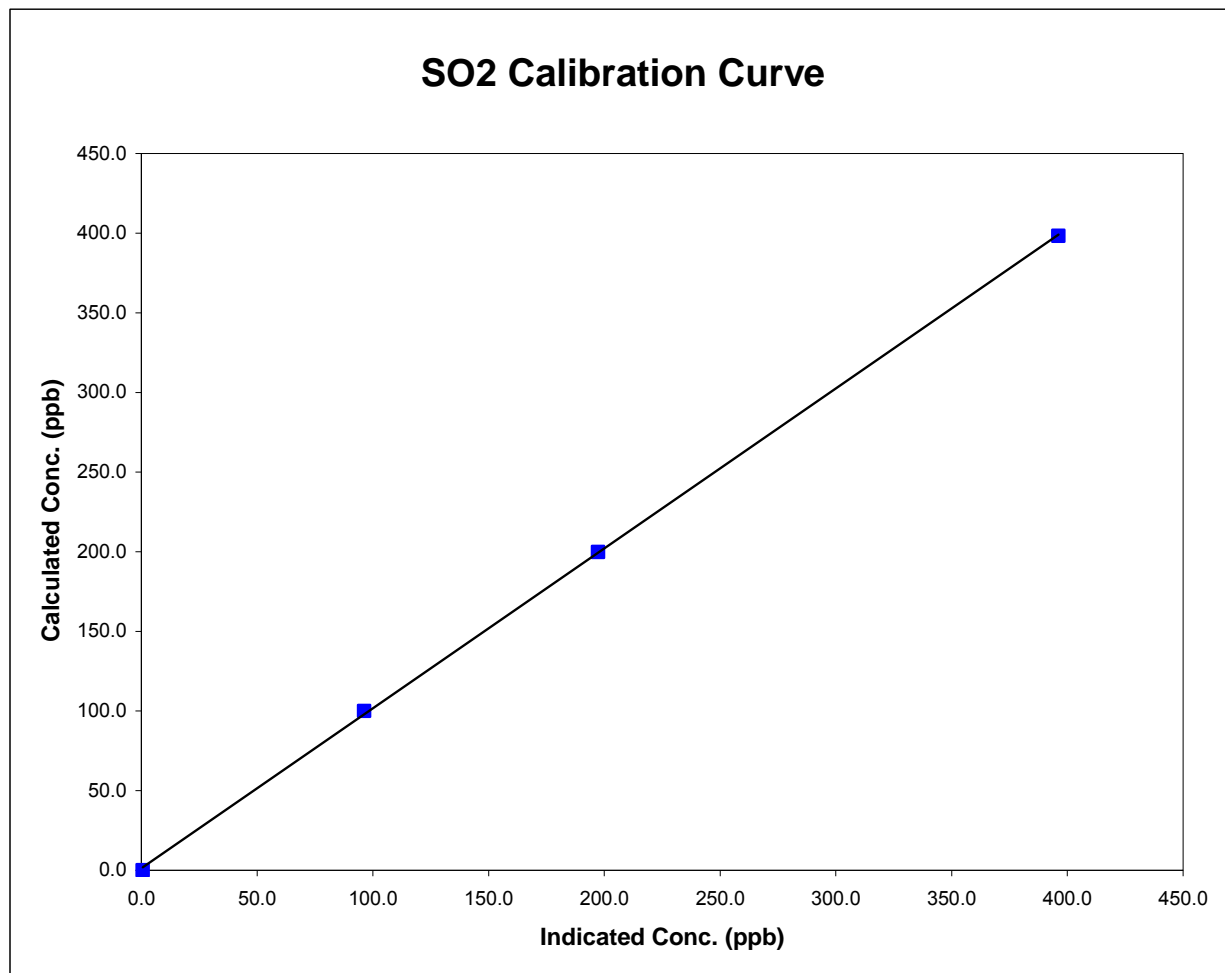
Parameter **SO2**Air Monitoring Network **PASZA**

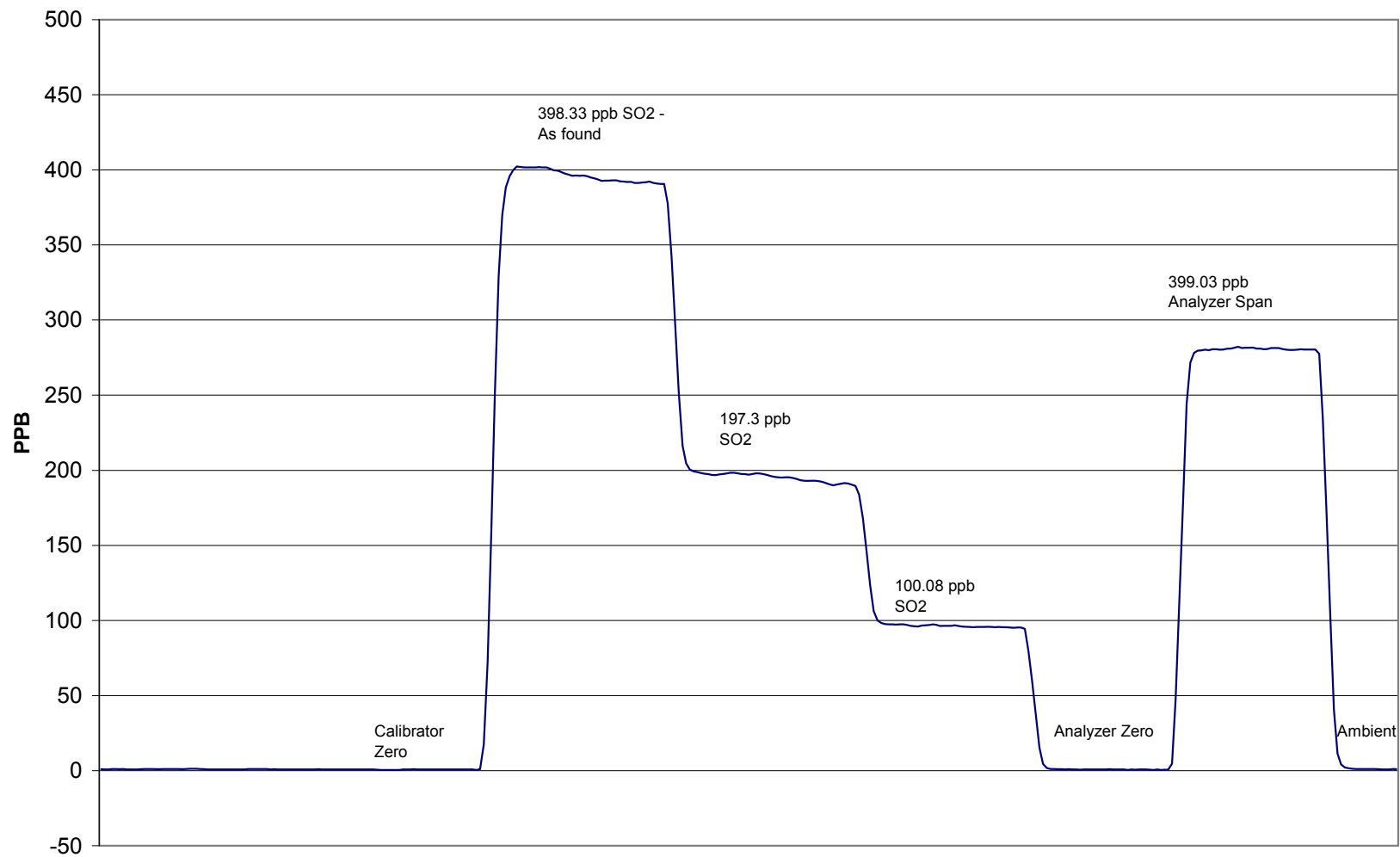
Station Information

Calibration Date	October 12, 2007	Previous Calibration	September 4, 2007
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	10:30	End Time (MST)	13:05
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	0.7	N/A		
398.3	396.2	1.0055	Correlation Coefficient	0.999898
199.8	197.3	1.0125		
100.1	96.3	1.0390	Slope	1.004370
			Intercept	1.172309



Henry Pirker SO2 Calibration**October 12, 2007**

Calibration Report

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



Station Information

Calibration Date	October 12, 2007	Previous Calibration	September 4, 2007
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	12:30	End Time (MST)	15:28
Barometric Pressure	0.926 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	5.14 ppm	Cal Gas Expiry Date	7/31/2008
Correction factor	0.031477	Cal Gas Cylinder #	LL 74274
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	1.014198	Calculated slope	1.006437
Calculated intercept	-0.342749	Calculated intercept	-0.458019
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	14.1	ppb	14.1	ppb
coefficient	0.976		0.976	
Lamp Voltage	781	volts	788	volts
Chamber Temp	44.3	Deg C	44.3	Deg C
Perm Gas Temp	44.9	Deg C	45	Deg C
Pressure	643.2	mm Hg	647.3	mm Hg
Sample Flow	472	ccm	472	ccm
Lamp Intensity	44,595	mv	46,177	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)
4996	0.00	0.00	0.7	N/A
4996	79.44	80.45	80.6	0.9981
4996	39.85	40.68	40.5	1.0048
4996	19.91	20.40	20.6	0.9885
4996	0.00	0.00	0.7	As Found Zero
4996	79.44	80.45	80.6	As Found Span
Average Correction Factor				0.9971

Calculated value of As Found Response: 80.68 ppm Percent Change of As Found: -0.3%

	before calibration		after calibration	
Auto zero	0.9	ppm	0.5	ppm
Auto span	70.6	ppm	72.5	ppm

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary

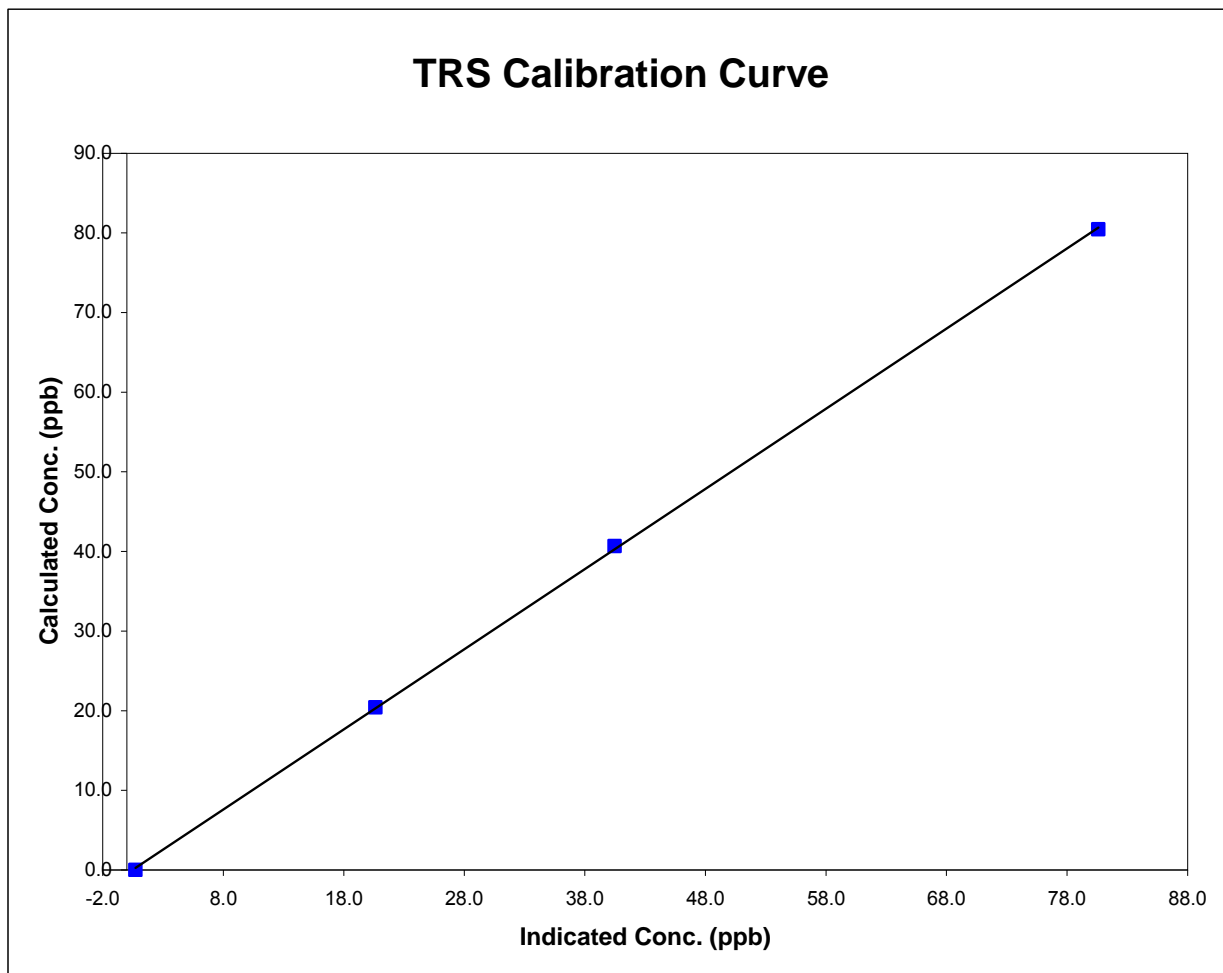
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

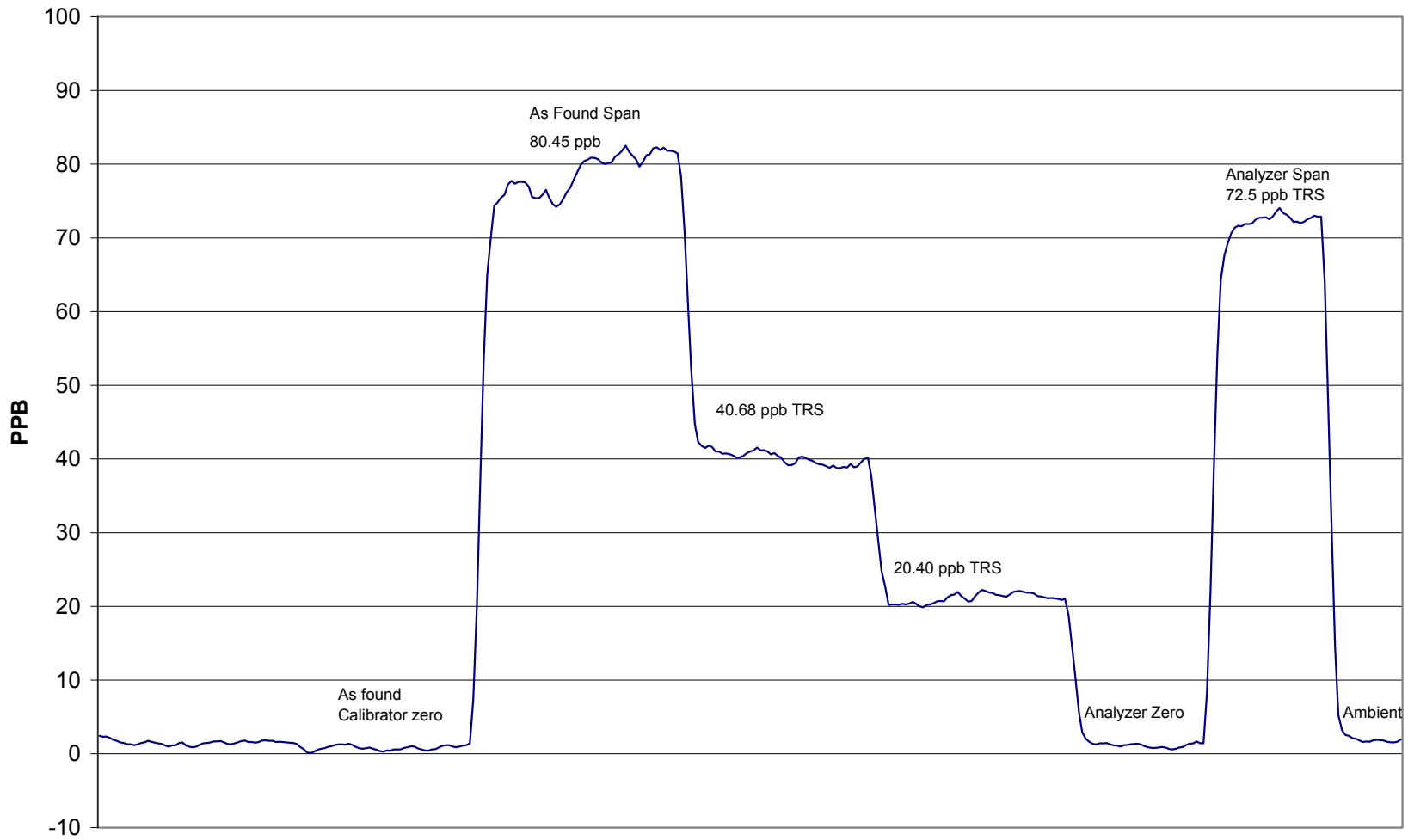
Calibration Date	October 12, 2007	Previous Calibration	September 4, 2007
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	12:30	End Time (MST)	15:28
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.7	N/A		
80.5	80.6	0.9981	Correlation Coefficient	0.999922
40.7	40.5	1.0048		
20.4	20.6	0.9885	Slope	1.006437
			Intercept	-0.458019



Evergreen Park TRS Calibration



October 12, 2007

Calibration Report

Parameter **PM2.5**Air Monitoring Network **PASZA**

Station Information

Calibration Date	October 12, 2007	Previous Calibration	September 4, 2007
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	12:15	End Time (MST)	13:50
Barometric Pressure	0.921 ATM	Station Temperature	25.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15
	Before		After
DACS slope	0.050000	DACS slope	0.050000
DACS intercept	-50.000000	DACS intercept	-50.000000

Analyzer Information

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

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

Calibration Data

Parameter	Set Point	As Found	Tolerance	TEOM Reading
zero flow - main	0.0	0.00		0.06
zero flow - auxillary	0.0	-0.04		-0.04
flow recovery - main	45 - 60 Seconds	32.0	45 - 60 Seconds	50.0
flow recovery - aux	46 - 60 Seconds	47.0	46 - 60 Seconds	55.0
Temperature	measured	20.1	+/- 1.0 Deg C	10.8
Pressure	measured	0.921	+/- 1.5% ΔATM	0.927
Total Flow	16.67 SLPM	16.74		
Main Flow	3.00 SLPM	2.98	+/- 1.0 SLPM	13.58
Auxillary Flow	13.67 SLPM	13.770	+/- 0.2 SLPM	2.972
Leak Check - main	0.0	0.01	<0.15 SLPM	0.08
Leak Check - aux	0.0	0.11	<0.15 SLPM	0.19
Ko Factor (w/o filter)	measured	n/a	filter weight (g)	0.11012
Ko Factor (w/ filter)	measured	n/a	% Ko difference	N/A

Notes: No adjustments madeCalibration Performed By: Conor Whiteley

Calibration Report



Parameter

SO₂

Air Monitoring Network

PASZA

Station Information

Calibration Date	October 4, 2007	Previous Calibration	September 5, 2007
Station Number	3	Station Location	Smoky Heights
Reason:	<input type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:55	End Time (MST)	13:26
Barometric Pressure	0.928 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	1/2/2009
Correction factor	0.031545	Cal Gas Cylinder #	LL16161
DACS make	Focus AP1000	DACS serial No.	45272
DACS voltage range	0 - 10 volt	DACS channel #	6
	Before		After
Calculated slope	0.976975	Calculated slope	0.984593
Calculated intercept	-5.917613	Calculated intercept	-5.184116
Analyzer make	Teco 43c	Analyzer serial #	3199000000491

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	25.6		25.2	
coefficient	1.042		1.042	
Lamp Voltage	916	volts	923	volts
Chamber Temp	44.3	Deg C	44.3	Deg C
Perm Gas Temp	45	Deg C	44.9	Deg C
Pressure	672.6	mm Hg	654.9	mm Hg
Sample Flow	600	ccm	622	ccm
Lamp Intensity	38662	%	34727	%

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)
4992	0.0	0.00	4.0	N/A
4992	39.84	398.25	408.9	0.9741
4992	19.91	199.82	209.5	0.9536
4993	9.99	100.47	108.2	0.9289
zero	0.0	0.00	4.0	As Found Zero
4994	39.9	398.79	408.9	As Found Span
Average Correction Factor				0.9522

Calculated value of As Found Response: 389.640 ppm Percent Change of As Found: 2.3%

	before calibration		after calibration	
Auto zero	-2.3	ppm	-1.1	ppm
Auto span	225.3	ppm	224.3	ppm

Notes: No adjustments made...

Calibration Performed By: Conor Whiteley

Calibration Summary

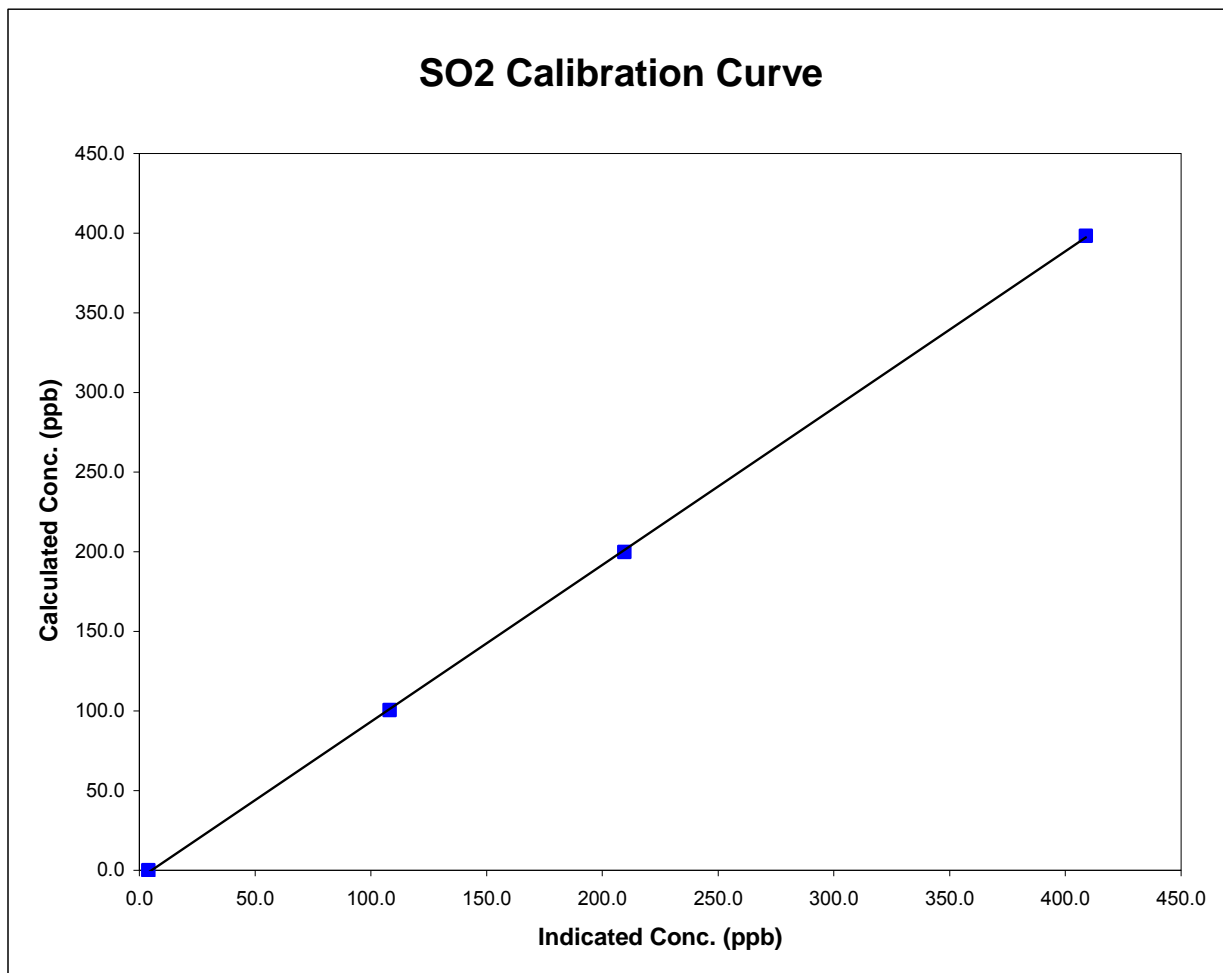
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

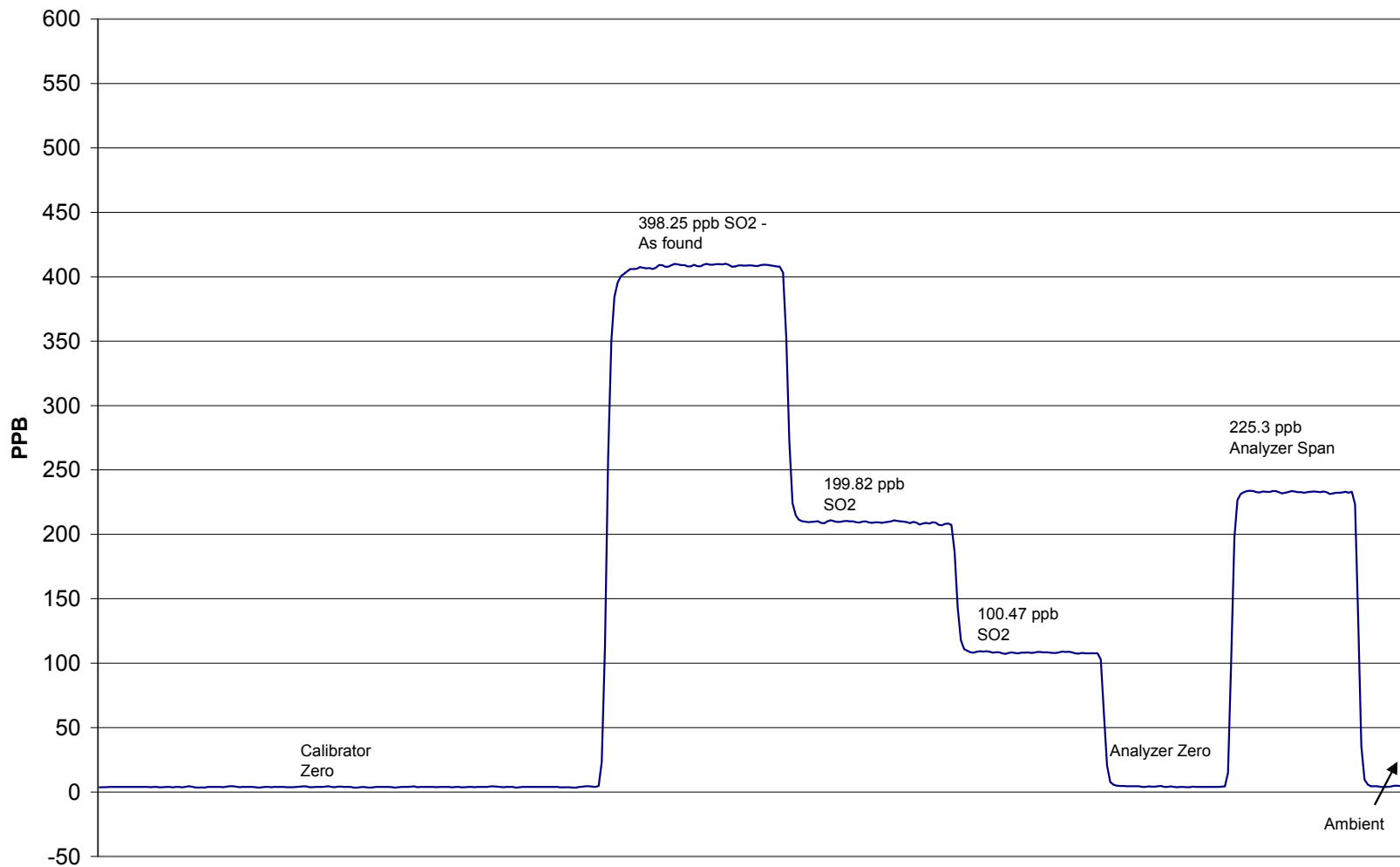
Calibration Date	October 4, 2007	Previous Calibration	September 5, 2007
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	10:55	End Time (MST)	13:26
Analyzer make/model	Teco 43c	Analyzer serial #	3.199E+13

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	4.0	N/A		
398.3	408.9	0.9741	Correlation Coefficient	0.999944
199.8	209.5	0.9536		
100.5	108.2	0.9289	Slope	0.984593
			Intercept	-5.184116



Smoky Heights SO2 Calibration



October 4, 2007

Calibration Report



Parameter

SO₂

Air Monitoring Network

PASZA

Station Information

Calibration Date	October 5, 2007	Previous Calibration	October 4, 2007
Station Number	3	Station Location	Smoky Heights
Reason:	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:25	End Time (MST)	15:00
Barometric Pressure	0.928 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	1/2/2009
Correction factor	0.031545	Cal Gas Cylinder #	LL16161
DACS make	Focus AP1000	DACS serial No.	45272
DACS voltage range	0 - 10 volt	DACS channel #	6
	Before		After
Calculated slope	NA	Calculated slope	0.999801
Calculated intercept	NA	Calculated intercept	-2.896954
Analyzer make	Teco 43i	Analyzer serial #	701120009

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	NA		4.7	
coefficient	NA		0.737	
Lamp Voltage	NA	volts	935	volts
Chamber Temp	NA	Deg C	45.1	Deg C
Perm Gas Temp	NA	Deg C	45	Deg C
Pressure	NA	mm Hg	670.2	mm Hg
Sample Flow	NA	ccm	444	ccm
Lamp Intensity	NA	%	88	%

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)
4991	0.0	0.00	1.4	N/A
4991	39.85	398.43	400.4	0.9952
4991	19.91	199.86	204.3	0.9783
4991	9.99	100.51	104.5	0.9617
zero		0.00		As Found Zero
				As Found Span
Average Correction Factor				0.9784

Calculated value of As Found Response: NA

Percent Change of As Found: NA

	before calibration		after calibration	
Auto zero	NA	ppm	-1.5	ppm
Auto span	NA	ppm	310.4	ppm

Notes:

Calibration Performed By:

Conor Whiteley

Calibration Summary

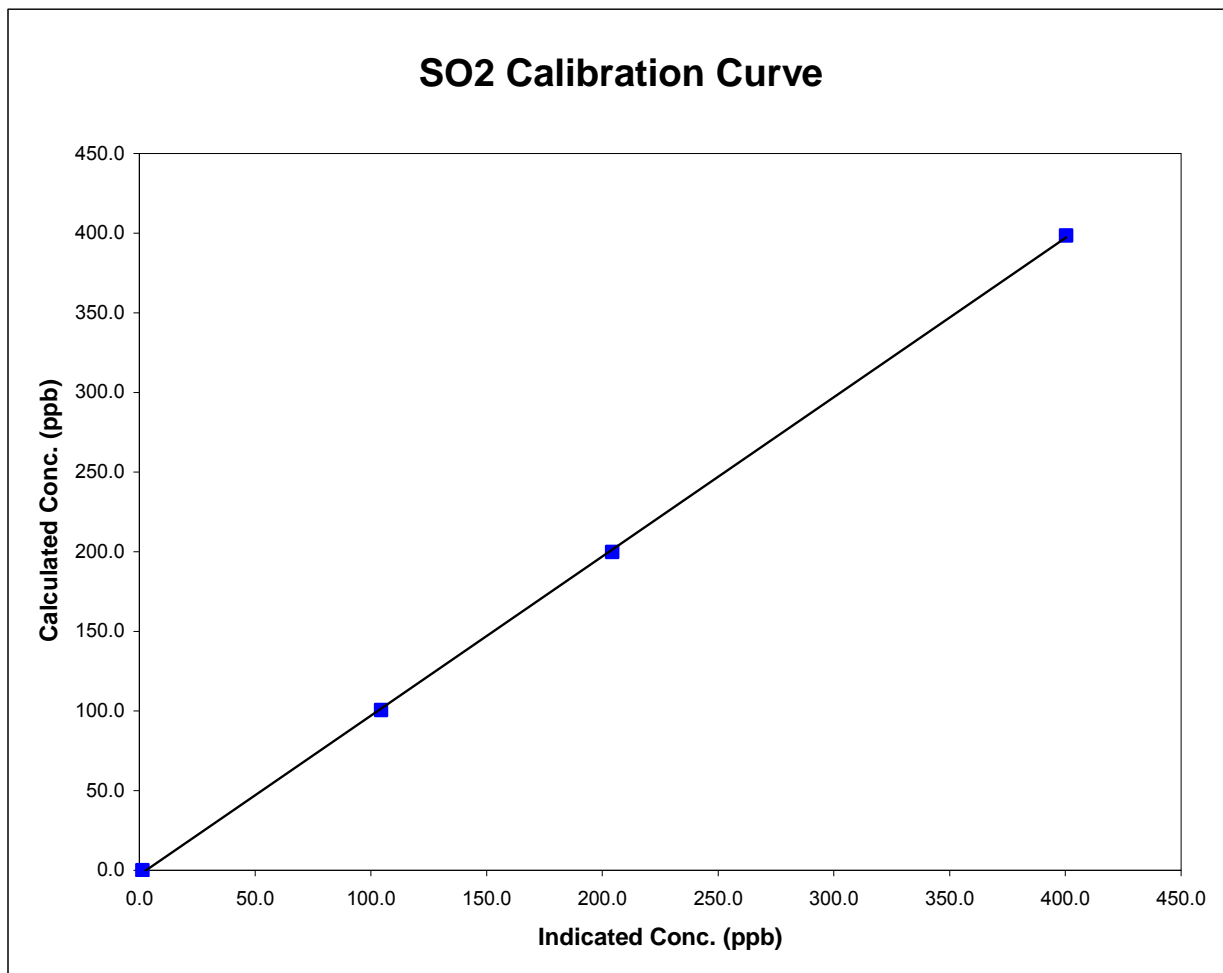
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

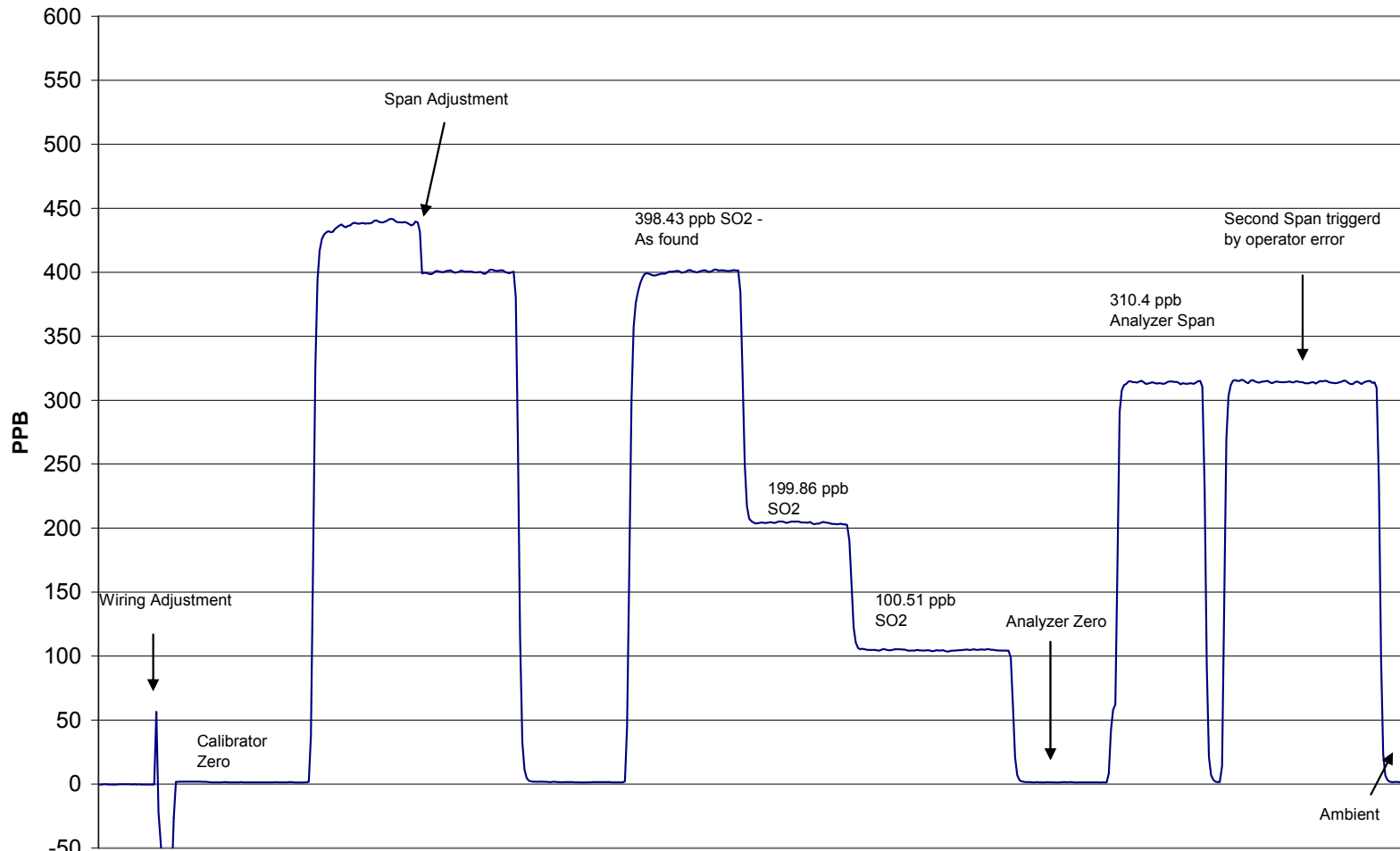
Calibration Date	October 5, 2007	Previous Calibration	October 4, 2007
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	10:25	End Time (MST)	15:00
Analyzer make/model	Teco 43i	Analyzer serial #	701120009

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.4	N/A		
398.4	400.4	0.9952	Correlation Coefficient	0.999921
199.9	204.3	0.9783		
100.5	104.5	0.9617	Slope	0.999801
			Intercept	-2.896954



Smoky Heights SO2 Calibration



October 5, 2007

Calibration Report

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

Station Information

Calibration Date	October 4, 2007	Previous Calibration	September 5, 2007
Station Number	2	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:05	End Time (MST)	11:44
Barometric Pressure	0.927 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	5.14 ppm	Cal Gas Expiry Date	7/31/2008
Correction factor	0.031511	Cal Gas Cylinder #	LL 74274
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	1.010826	Calculated slope	1.024367
Calculated intercept	-0.517122	Calculated intercept	-0.031455
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	100	ppb	100	ppb
Background	11.5	ppb	11.2	ppb
coefficient	1.006		1.006	
Lamp Voltage	766	volts	768	volts
Chamber Temp	43.9	Deg C	44	Deg C
Perm Gas Temp	44.99	Deg C	45	Deg C
Pressure	485.4	mm Hg	504.3	mm Hg
Sample Flow	763	ccm	781	ccm
Lamp Intensity	32,329	mv	32,327	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)
4998	0.0	0.00	0.2	N/A
4996	79.52	80.53	78.7	1.0228
4998	39.67	40.48	39.5	1.0255
4998	19.81	20.29	19.6	1.0338
zero	0.0	0.00	0.2	As Found Zero
5000	79.5	80.47	78.7	As Found Span
Average Correction Factor				1.0274

Calculated value of As Found Response: 78.84 ppm Percent Change of As Found: 2.0%

	before calibration		after calibration	
Auto zero	0.0	ppm	0.5	ppm
Auto span	44.0	ppm	44.6	ppm

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary

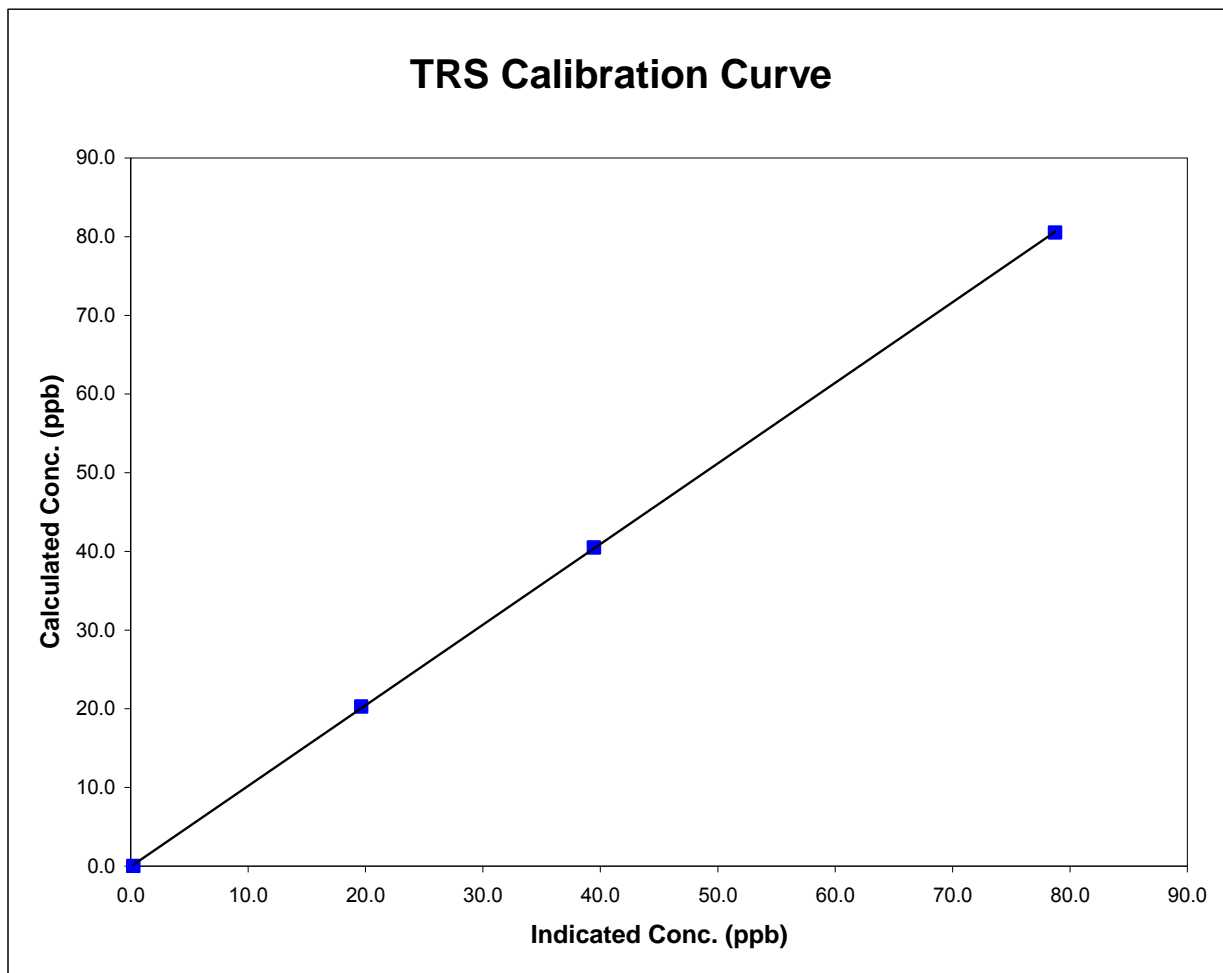
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

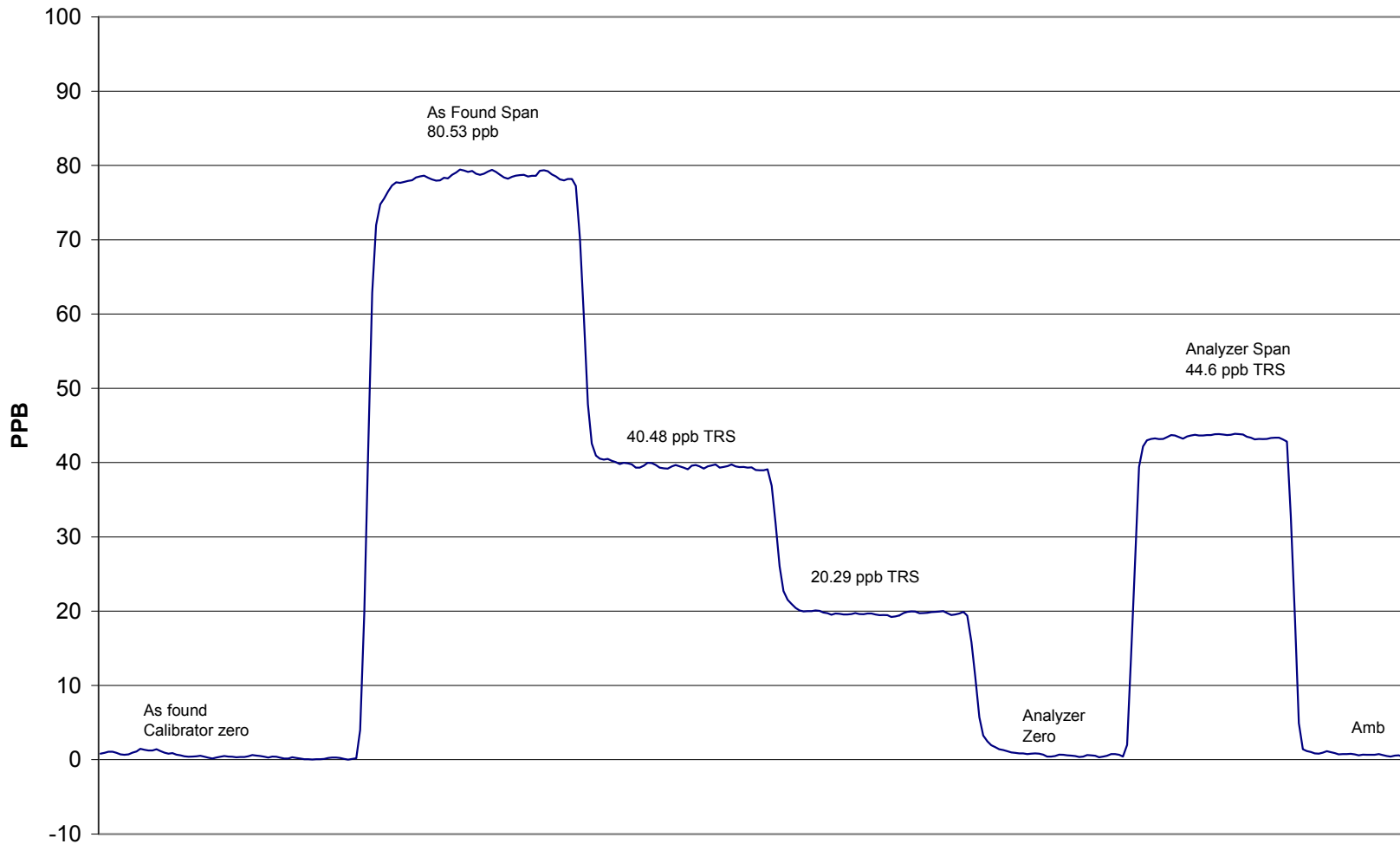
Calibration Date	October 4, 2007	Previous Calibration	September 5, 2007
Station Number	2	Station Location	Smoky Heights
Start Time (MST)	9:05	End Time (MST)	11:44
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	N/A		
80.5	78.7	1.0228	Correlation Coefficient	0.999971
40.5	39.5	1.0255		
20.3	19.6	1.0338	Slope	1.024367
			Intercept	-0.031455



Smoky Heights TRS Calibration



September 5, 2007

Calibration Report

Parameter **PM2.5**Air Monitoring Network **PASZA**

Station Information

Calibration Date	October 4, 2007	Previous Calibration	September 5, 2007
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:

Start Time (MST)	10:20	End Time (MST)	
Barometric Pressure	0.928 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

Analyzer Information

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

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	32	%	16	%
Ko Factor	na		na	
Temperature	9.3	Deg C	9.3	Deg C
Pressure	0.921	ATM	0.93	ATM
Main Fadj	1.000		1.000	
Aux Fadj	1.000		1.000	

Calibration Data

Parameter	Set Point	As Found	Tolerance	New Reading
zero flow - main	0.0	0.00		0.00
zero flow - auxillary	0.0	-0.01		0.01
flow recovery - main	45 - 60 Seconds	35	45 - 60 Seconds	33
flow recovery - aux	46 - 60 Seconds	40	46 - 60 Seconds	45
Temperature	measured	0.5	+/- 1.0 Deg C	0.4
Pressure	measured	0.928	+/- 1.5% ΔATM	0.927
Total Flow	16.67 SLPM	16.84		16.52
Main Flow	13.67 SLPM	3.08	+/- 1.0 SLPM	3.01
Auxillary Flow	3.0 SLPM	13.820	+/- 0.2 SLPM	13.530
Leak Check - main	0.0	0.00	<0.15 SLPM	0.00
Leak Check - aux	0.0	-0.01	<0.15 SLPM	0.00
Ko Factor (w/o filter)	measured		filter weight (g)	0.11014
Ko Factor (w/ filter)	measured		% Ko difference	

Notes: Replaced FilterCalibration Performed By: Conor Whiteley

Calibration Report

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

Station Information

Calibration Date	October 25, 2007	Previous Calibration	September 27, 2007
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:50	End Time (MST)	11:58
Barometric Pressure	0.918 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	10.06 ppm	Cal Gas Expiry Date	7/27/2009
Gas Cert Reference	CC 114395		
DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 10 volt	DACS channel #	4
	<u>Before</u>		<u>After</u>
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.989268	Calculated slope	0.987608
Calculated intercept	1.336285	Calculated intercept	1.427482
Analyzer make	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	3		2.98	
Coefficient	0.769		0.769	
PMT	-705	V	-705	V
UV Lamp Voltage	901	V	906	V
Chamber Temp	44.6	Deg C	44.3	Deg C
Pressure	650.7	mm Hg	656.6	mm Hg
Sample Flow	0.604	LPM	0.614	LPM
Lamp Intesity	29411	Hz	29202	Hz

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.00	0.0	-1.0	N/A
4992	39.87	79.7	79.6	1.0016
4992	19.93	40.0	38.5	1.0385
4992	9.96	20.0	18.6	1.0752
4992	0.00	0.0	-1.0	As found zero
4992	39.87	79.7	79.6	As found span
Average Correction Factor				1.0384

Calculated value of As Found Response: 81.066 ppm Percent Change of As Found: -1.7%

	before calibration		after calibration	
Auto zero	0.3	ppm	0.5	ppm
Auto span	26.1	ppm	24.8	ppm

Notes: Operator error after span, sample line was not removed during AIC

Calibration Performed By: Conor Whiteley

Calibration Summary

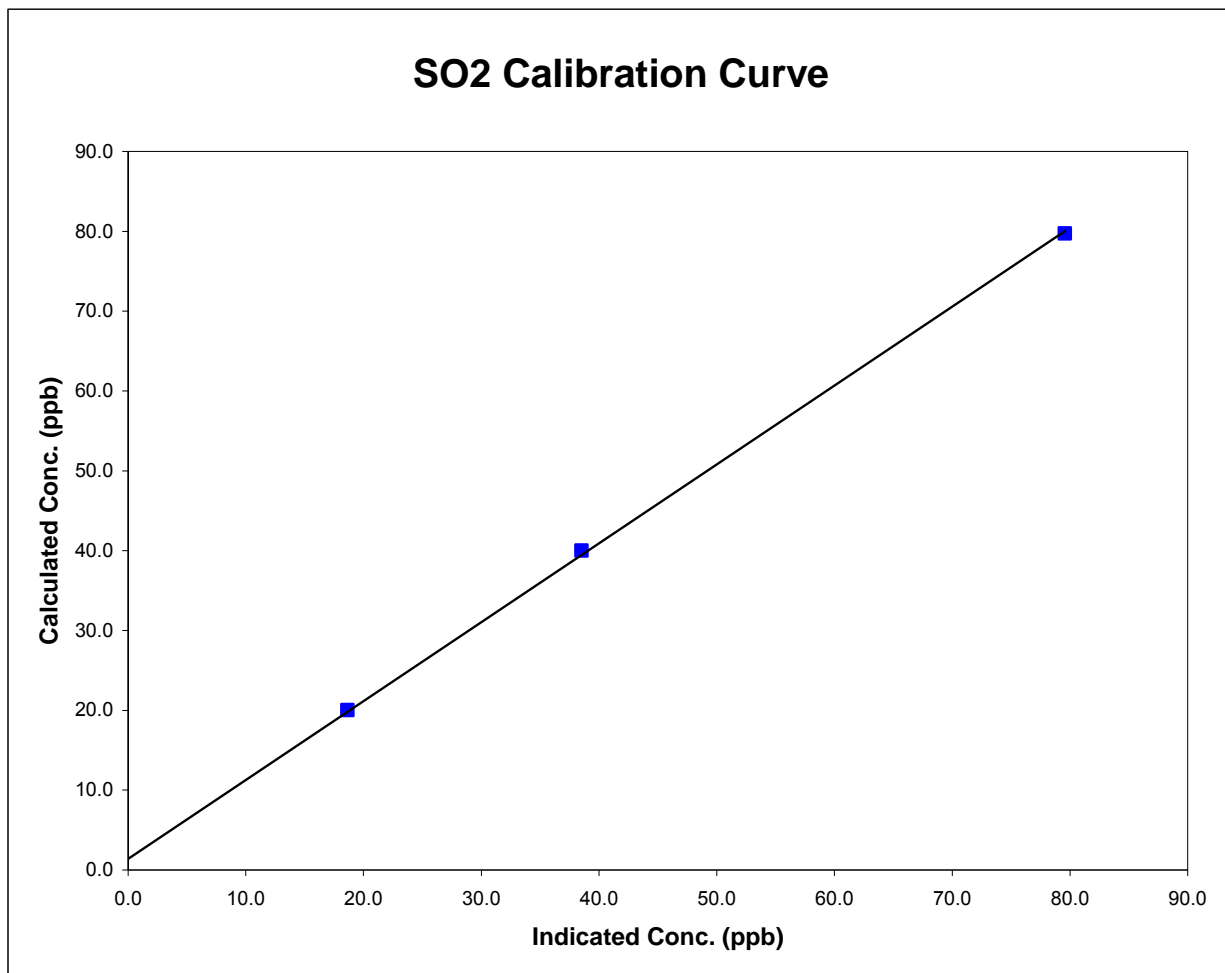
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

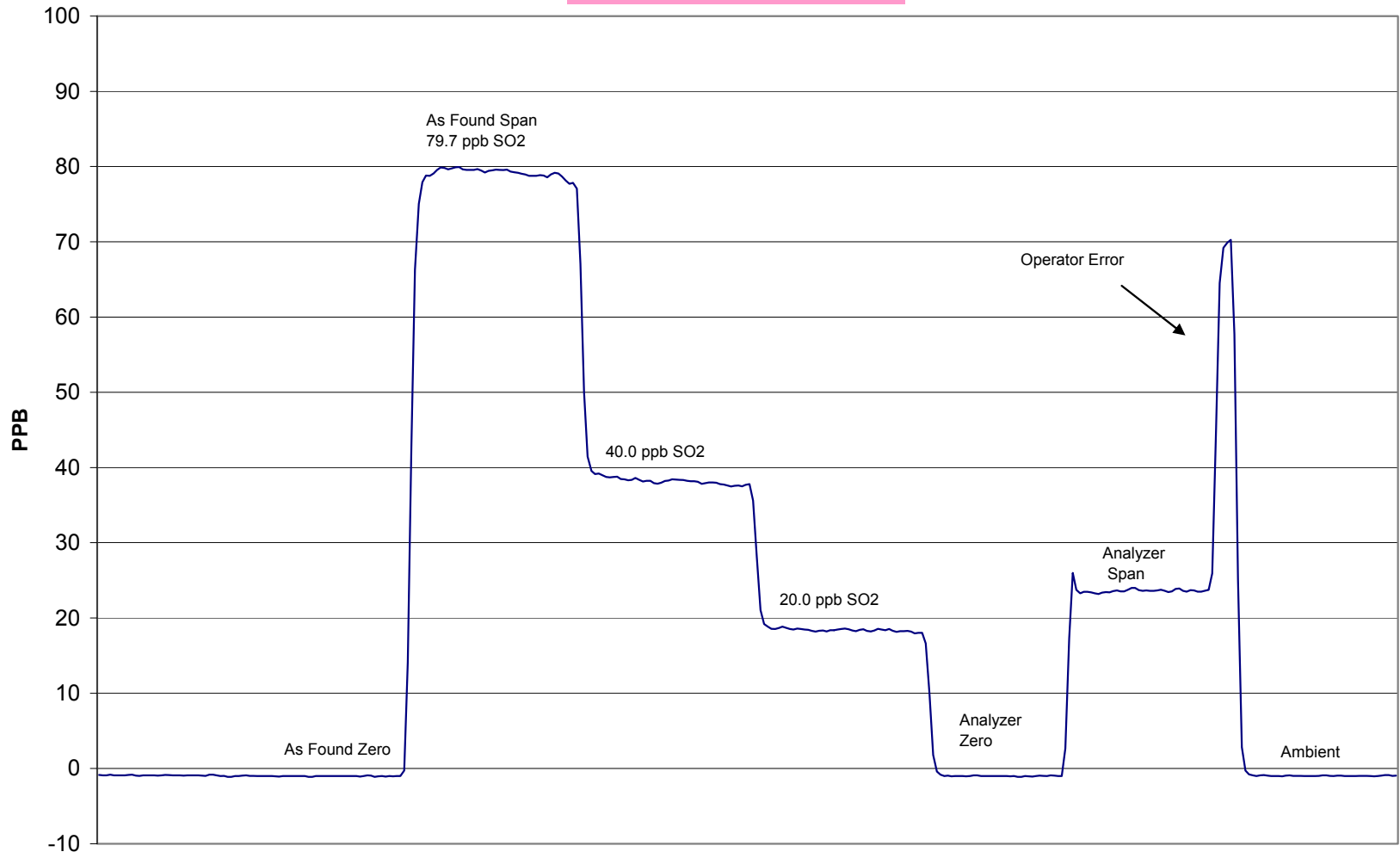
Calibration Date	October 25, 2007	Previous Calibration	September 27, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	9:50	End Time (MST)	11:58
Analyzer make/model	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-1.0	N/A		
79.7	79.6	1.0016	Correlation Coefficient	0.999827
40.0	38.5	1.0385		
20.0	18.6	1.0752	Slope	0.987608
			Intercept	1.427482



Beaverlodge SO2 Calibration



October 25, 2007

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA

**Station Information**Calibration Date October 25, 2007 Previous Calibration September 27, 2007Station Number 4 Station Location BeaverlodgeReason: Routine Installation Removal Other: _____

Start Time (MST)	<u>9:20</u>	End Time (MST)	<u>13:25</u>
Barometric Pressure	<u>0.918</u> Atm	Station Temperature	<u>20.0</u> Deg C
Calibrator	<u>EnviroNics 6100</u>	Serial Number	<u>3474</u>
NO Cal Gas Conc	<u>50.1</u> ppm	Cal Gas Cert. Date	<u>2-Jan-07</u>
NOx Cal Gas Conc	<u>50.2</u> ppm	Cal Gas Serial #	<u>CC 114395</u>

DACS InformationDACs make FOCUS AP1000 DACs serial No. 45269

Parameter		NO ₂	NO _x	NO
Before	Data Slope	1.027895	1.013103	1.010483
	Data Offset	0.023815	-0.928142	-1.064740
After	Data Slope	0.981793	0.982289	0.985725
	Data Offset	0.111003	-0.900604	-0.888744
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer InformationAnalyzer 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	1.3	ppb	1.3	mV
NO coefficient	1.061		1.061	
NO _x coefficient	0.999		0.999	
PMT Voltage	-635	V	-635	V
Chamber Temp	49.4	Deg C	49.2	Deg C
Cooler Temp	-2.1	Deg C	-2.1	Deg C
Converter Temp	324.0	Deg C	323.0	Deg C
Sample Flow	0.785	LPM	0.801	LPM
Ozonator Flow	0.085	LPM	0.087	LPM
Pressure	168.5	mm Hg	174.3	mm Hg

Notes: _____

Calibration Report

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



Station Information

Calibration Date: **October 25, 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	4992	0.00	0.0	0.0	0.0	-0.2	-0.3	-0.3	N/A	N/A
1	4992	39.87	397.8	397.0	0.8	405.3	403.0	1.6	0.9815	0.9850
2	4992	19.93	199.6	199.2	0.4	204.7	203.6	0.6	0.9753	0.9785
3	4992	9.96	100.0	99.8	0.2	103.9	103.4	0.5	0.9623	0.9649
AFZ	4992	0.00	0.0	0.0	0.0	-0.2	-0.3	-0.3	0.0000	0.0000
AFS	4992	39.87	397.8	397.0	0.8	405.3	403.0	1.6	0.9815	0.9850
Average Correction Factor									0.9730	0.9762

As Found Concentrations: NO_x= 404.6 NO= 402.3 As Found Percent Change NO_x= 1.7% NO= 1.3%

GPT Calibration Data

Dilution Flow 4992 ccm Source Gas Flow 39.87 ccm

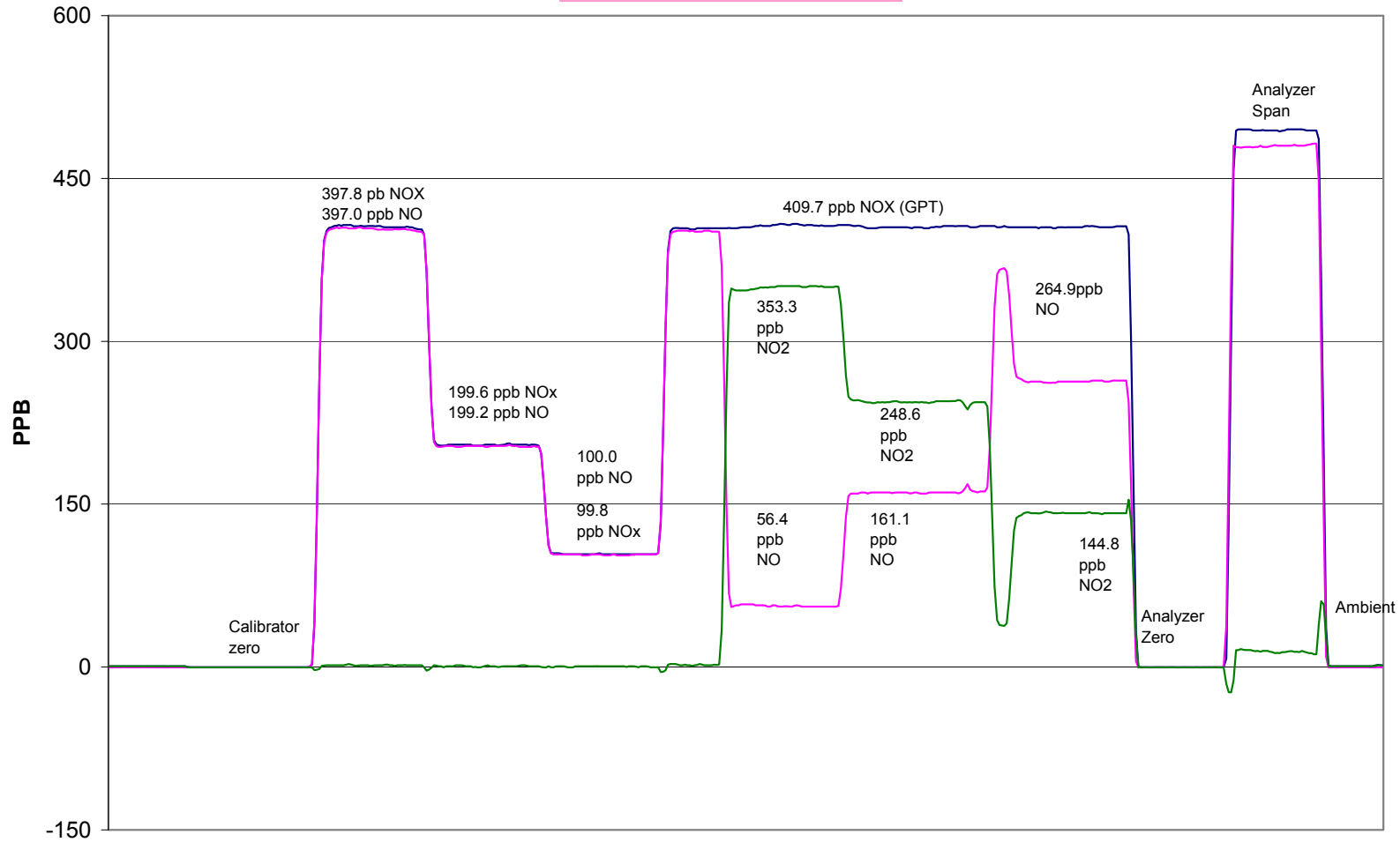
O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	397.2	395.0	2.2	404.0	401.6	1.9	0.9834	0.9835	N/A	N/A
300	397.2	55.2	342.1	405.7	56.9	348.3	0.9793	0.9701	0.9821	101.8%
200	397.2	157.3	239.9	405.0	160.5	244.0	0.9809	0.9802	0.9834	101.7%
100	397.2	258.5	138.7	405.4	263.2	141.7	0.9800	0.9823	0.9792	102.1%
Average Correction Factor							0.9801	0.9775	0.9816	101.9%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	-1.1	-0.2	-1.3	ppb	-1.1	-0.2	-1.2	ppb
Auto span	491.9	17.1	473.2	ppb	484.9	13.8	472.1	ppb

Calibration Performed By: Conor Whiteley

Beaverlodge NOx Calibration



October 25, 2007

Calibration Summary

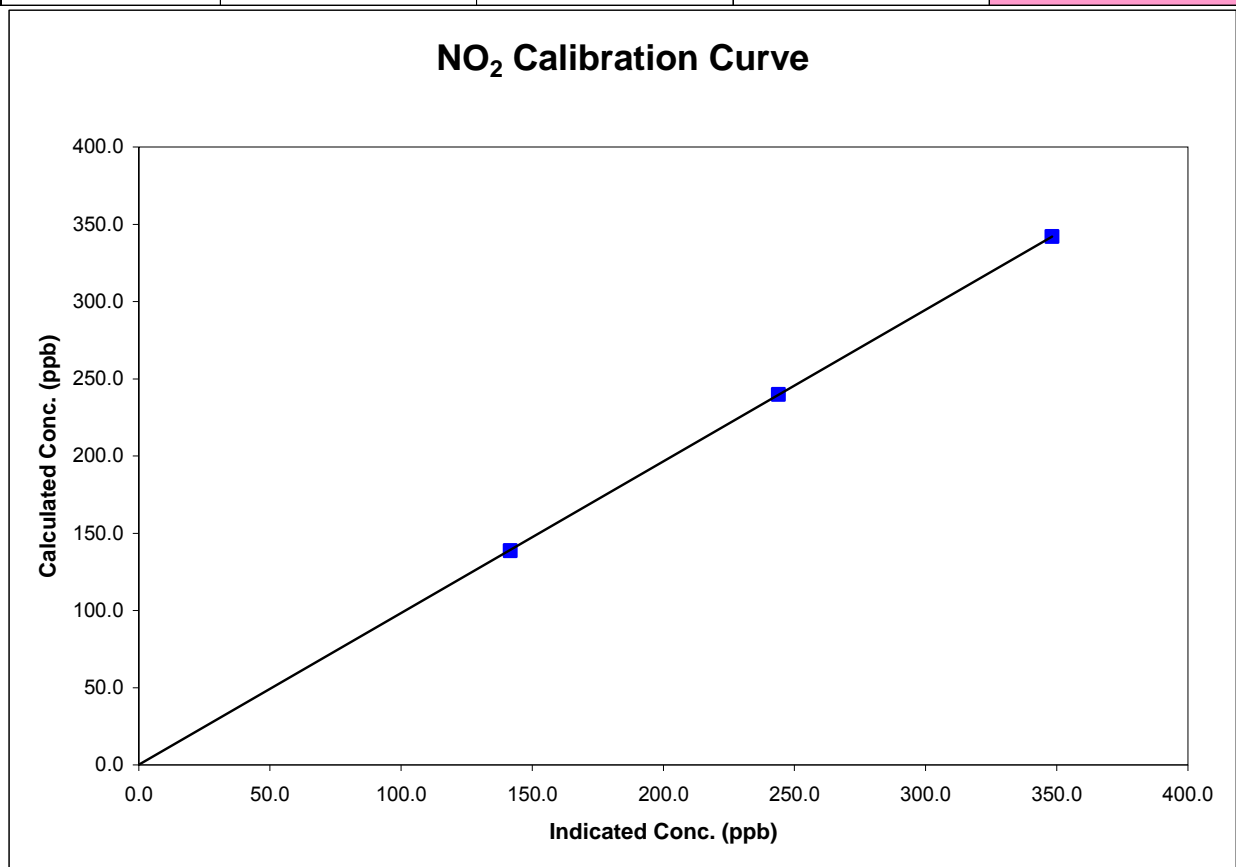
Parameter **NO₂**Air Monitoring Network **PASZA**

Station Information

Calibration Date	October 25, 2007	Previous Calibration	September 27, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	9:20	End Time (MST)	13:25
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		
342.1	348.3	0.9821	Correlation Coefficient	0.999995
239.9	244.0	0.9834		
138.7	141.7	0.9792	Slope	0.981793
			Intercept	0.111003



Calibration Summary

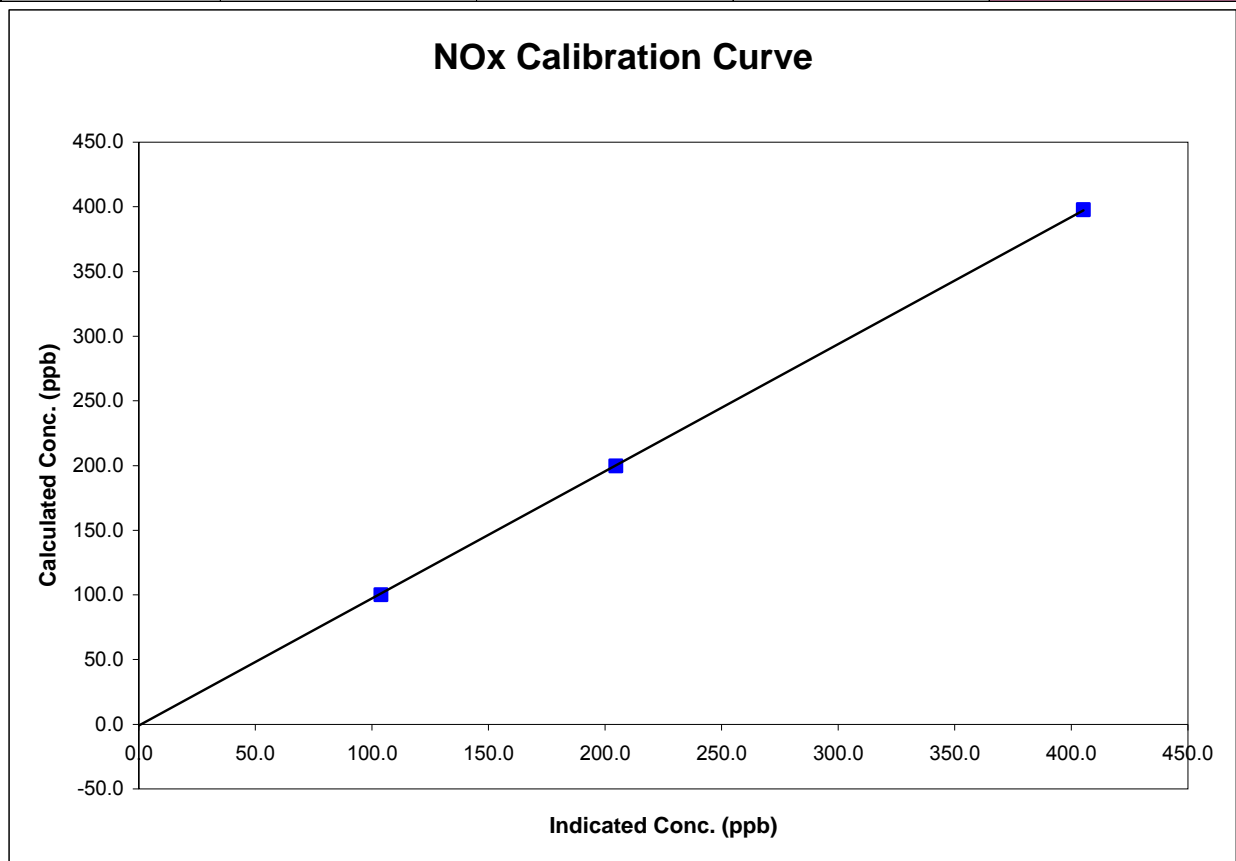
Parameter **NO_x**Air Monitoring Network **PASZA**

Station Information

Calibration Date	October 25, 2007	Previous Calibration	September 27, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	9:20	End Time (MST)	13:25
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	-0.2	0.0000		
397.8	405.3	0.9815	Correlation Coefficient	0.999962
199.6	204.7	0.9753		
100.0	103.9	0.9623	Slope	0.982289
			Intercept	-0.900604



Calibration Summary

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

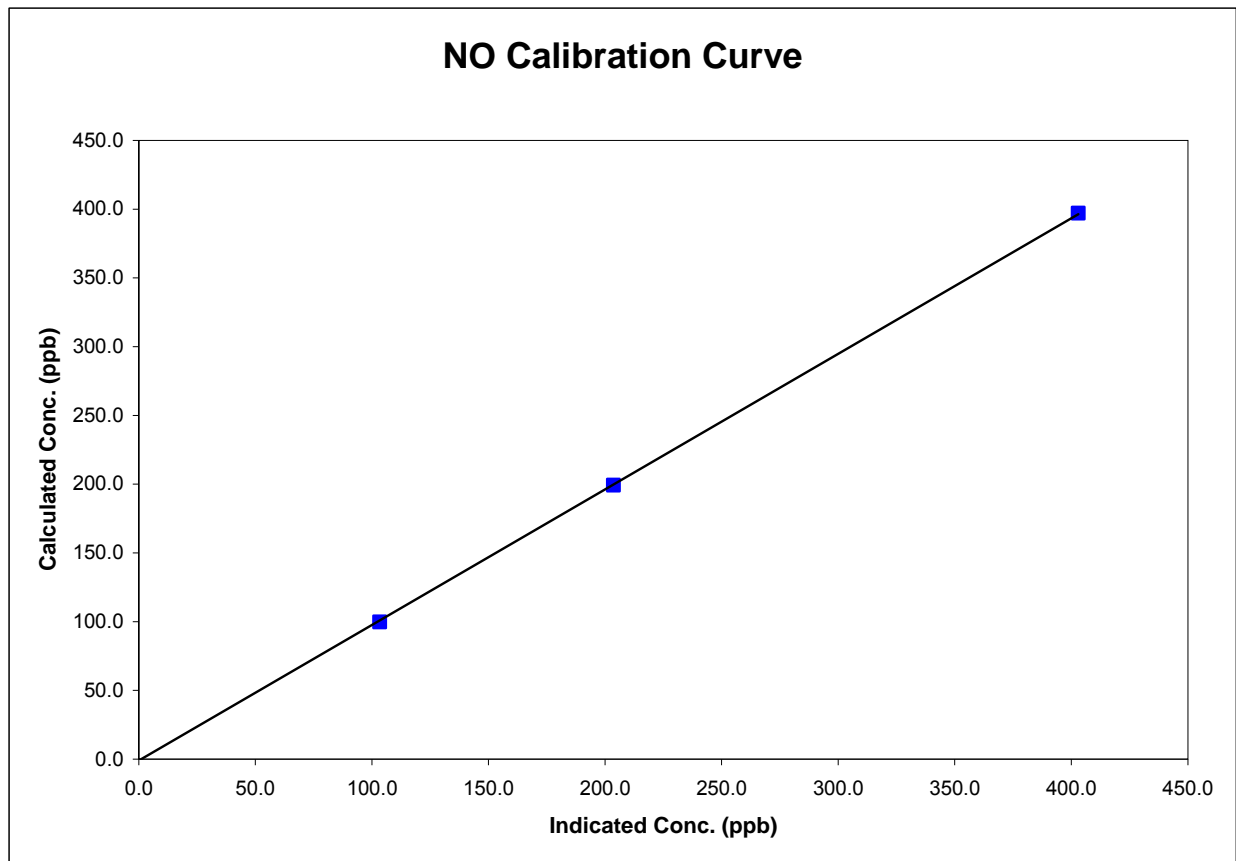


Station Information

Calibration Date	October 25, 2007	Previous Calibration	September 27, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	9:20	End Time (MST)	13:25
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		
397.0	403.0	0.9850	Correlation Coefficient	0.999956
199.2	203.6	0.9785		
99.8	103.4	0.9649		
			Slope	0.985725
			Intercept	-0.888744



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

Calibration Date	October 25, 2007	Previous Calibration	October 1, 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)	13:10	End Time (MST)	15:43
Barometric Pressure	0.918 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 1 volt	DACS channel #	5
	Before		After
Calculated slope	1.029605	Calculated slope	1.039444
Calculated intercept	2.459172	Calculated intercept	0.160840
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	56.4	mV	56.3	mV
Lamp Intensity A/B	81314/78630	mV	79469/76867	mV
Pressure	642.8	mm Hg	674.1	mm Hg
Flow A	725	ccm	736	ccm
Flow B	677	ccm	693	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	0.4	N/A
4992	0.00	342.1	329.3	1.0388
4992	0.00	239.9	230.7	1.0399
4992	0.00	138.7	132.3	1.0483
4992	0.00	0.0	0.4	As found zero
4992	0.00	342.1	329.3	As found span
Average Correction Factor				1.0423

Calculated value of As Found Response: 341.1 ppm Percent Change of As Found: -0.3%

	before calibration		after calibration	
Auto zero	2.5	ppb	0.2	ppb
Auto span	113.9	ppb	112.9	ppb

Notes: No Adjustments.Calibration Performed By: Conor Whiteley

Calibration Summary

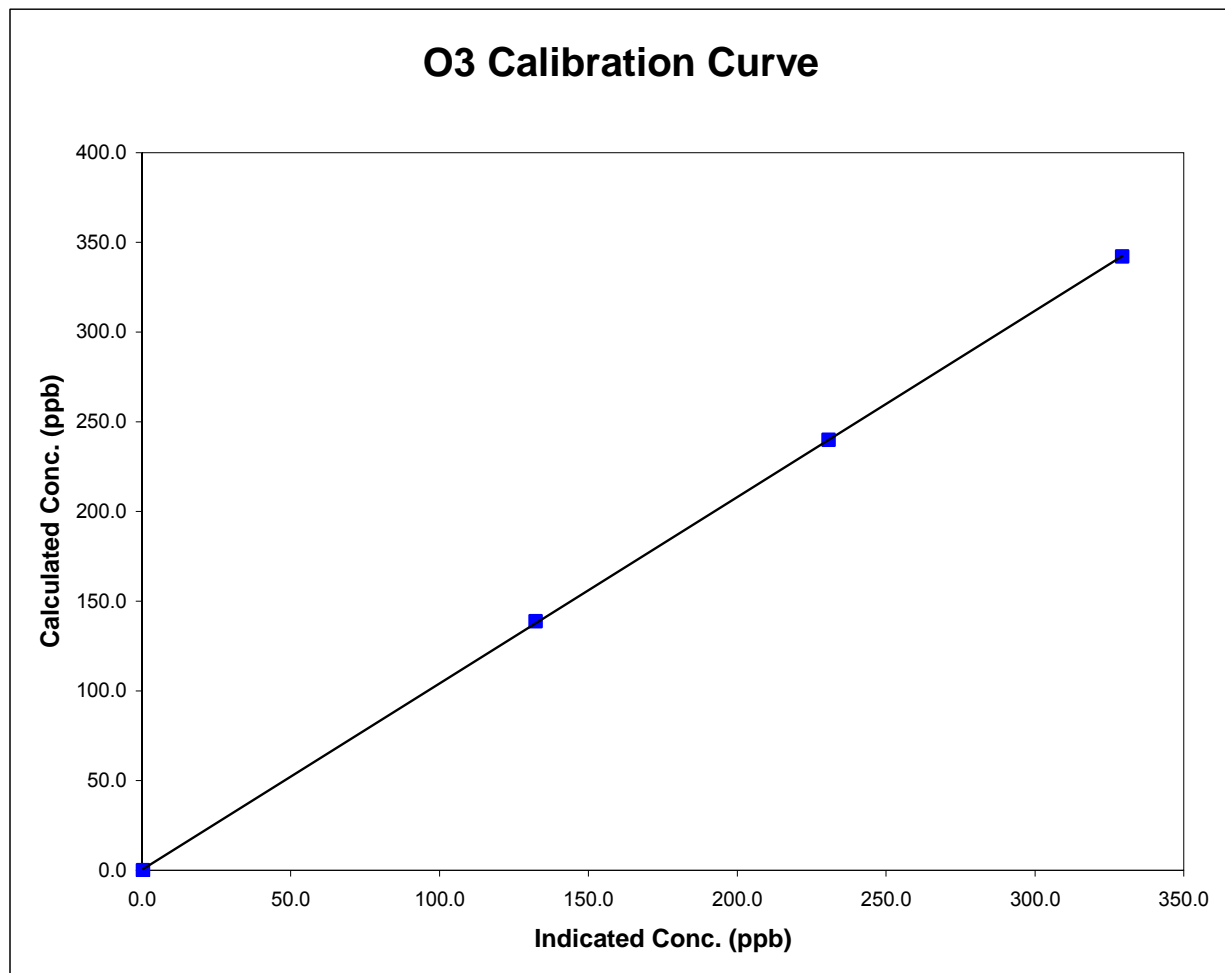
Parameter **O3**Air Monitoring Network **PASZA**

Station Information

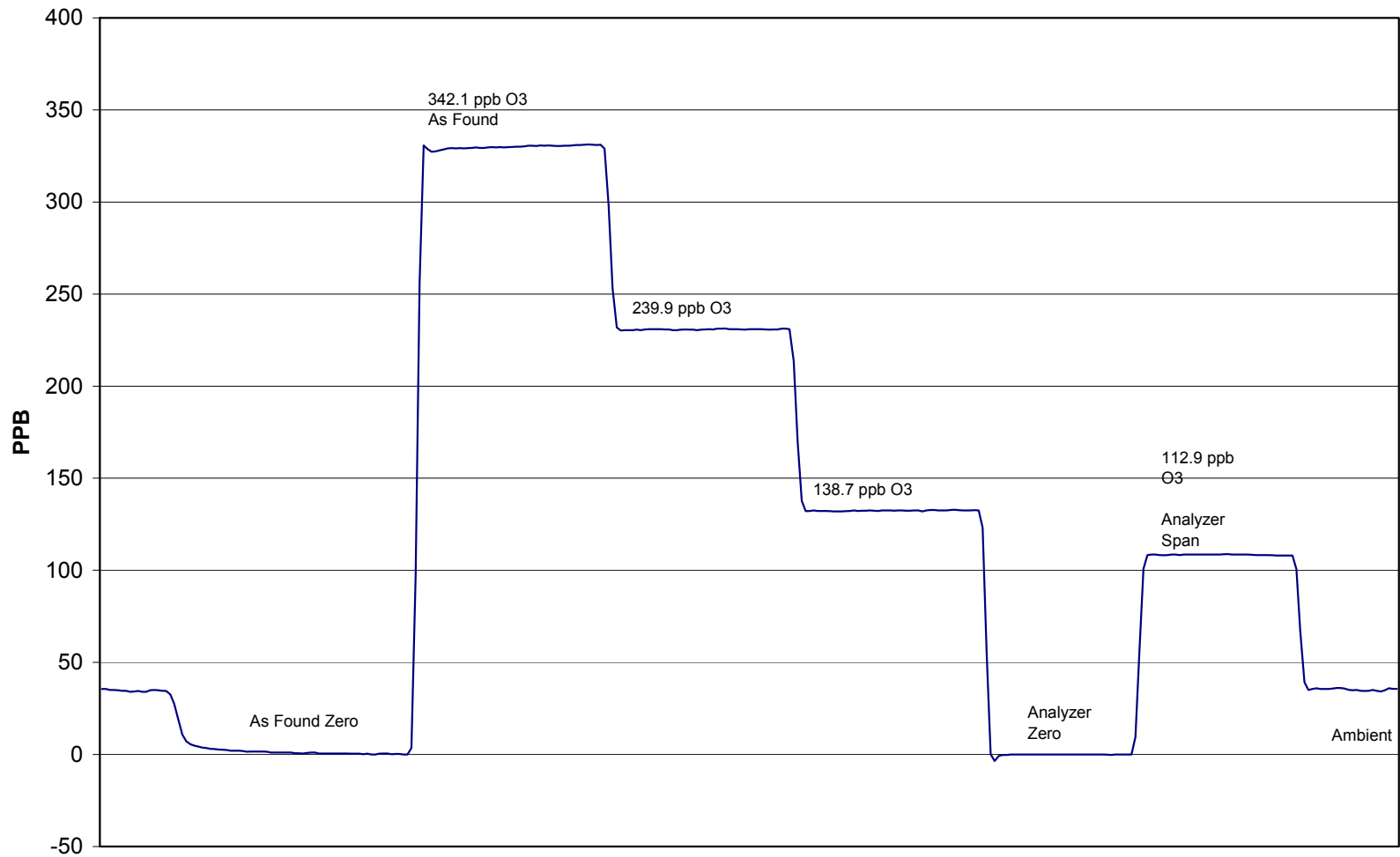
Calibration Date	October 25, 2007	Previous Calibration	October 1, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	13:10	End Time (MST)	15:43
Analyzer make/model	Teco 49C	Analyzer serial #	49C-76443-383

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.4	NA		
342.1	329.3	1.0388	Correlation Coefficient	0.999976
239.9	230.7	1.0399		
138.7	132.3	1.0483	Slope	1.039444
			Intercept	0.160840



Beaverlodge O3 Calibration



October 25, 2007

Calibration Report

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

Station Information

Calibration Date	October 16, 2007	Previous Calibration	September 20, 2007
Station Number	8	Station Location	Rover - Spirit River
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	8:30	End Time (MST)	11:27
Barometric Pressure	27.43 inches Hg	Station Temperature	22.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	7/27/2009
Gas Cert Reference	LL 16161		
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.998644	Calculated slope	1.006418
Calculated intercept	-1.247031	Calculated intercept	-0.366202
Analyzer make	TEI 43C	Analyzer serial #	609716238

	before		after	
Concentration range	0-500	ppb	0-500	ppb
Background	7.9		7.9	
Coefficient	1.137		1.137	
UV Lamp Voltage	743	V	736	V
Chamber Temp	44.3	C	44.4	C
Perm Gas Temp	45	C	45	C
Pressure	674	mm Hg	678.7	mm Hg
Sample Flow	486	LPM	489	LPM
Lamp Intesity	34449	Hz	34290	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	39.84	398.3	395.9	1.0060
4992	19.89	199.6	199.0	1.0029
4992	9.93	99.8	99.6	1.0020
4992	0.00	0.0	0.1	As found zero
4992	39.94	399.2	395.9	As found span
Average Correction Factor				1.0036

Calculated value of As Found Response: 393.967 ppm Percent Change of As Found: 1.3%

	before calibration		after calibration	
Auto zero	-0.8	ppm	0.1	ppm
Auto span	245.1	ppm	276.6	ppm

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary

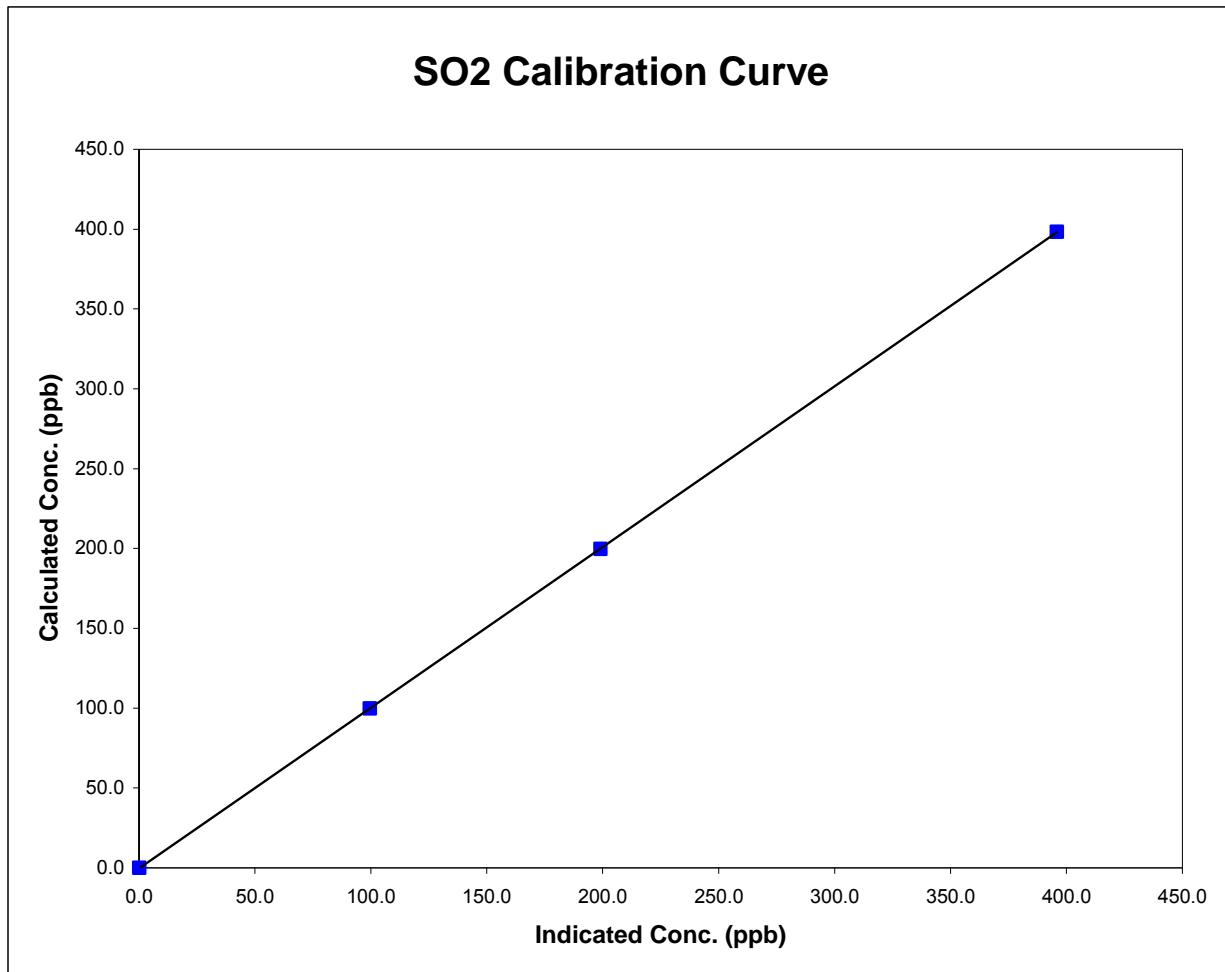
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

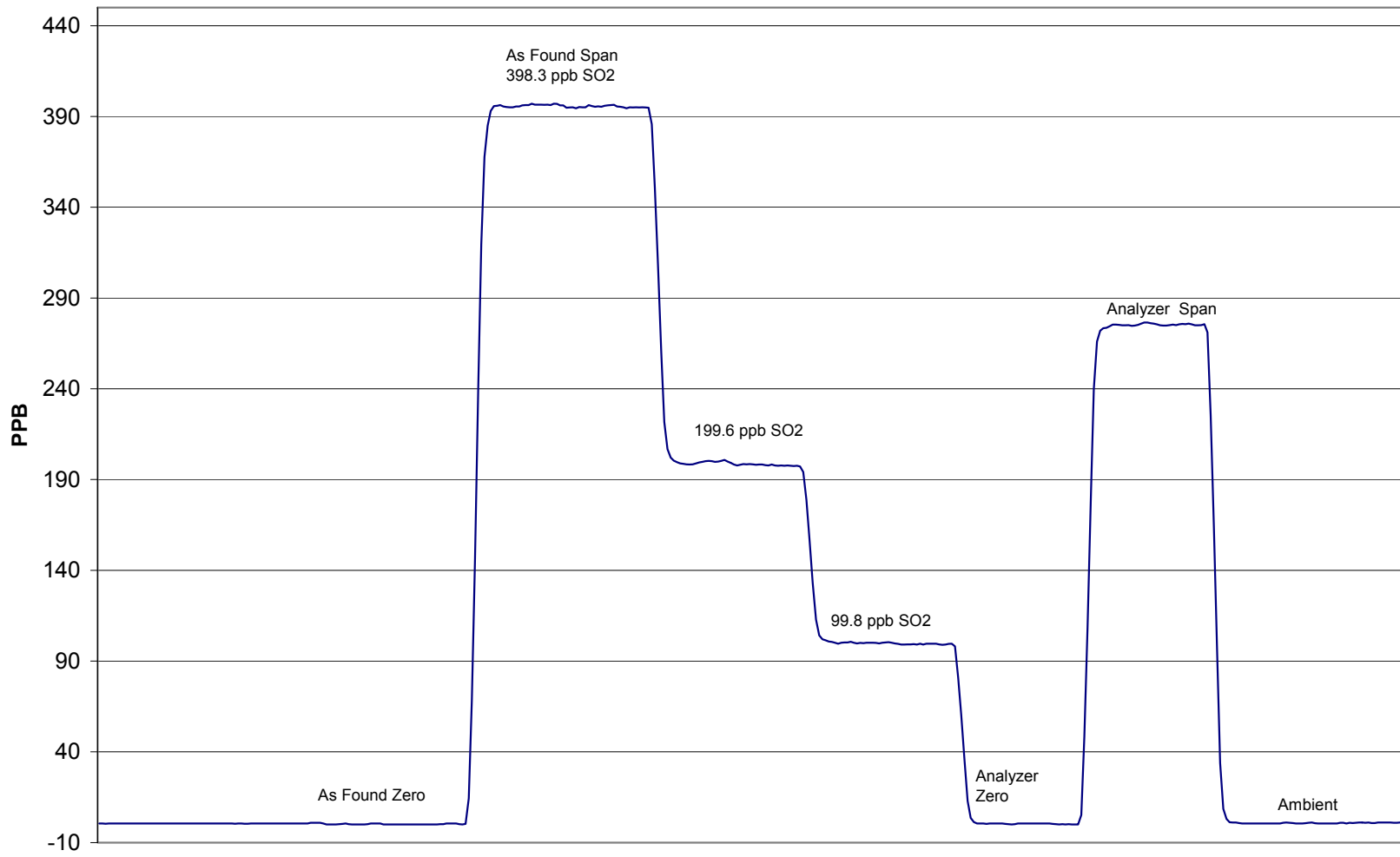
Calibration Date	October 16, 2007	Previous Calibration	September 20, 2007
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	8:30	End Time (MST)	11:27
Analyzer make/model	TEI 43C	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	N/A		
398.3	395.9	1.0060	Correlation Coefficient	0.999998
199.6	199.0	1.0029		
99.8	99.6	1.0020	Slope	1.006418
			Intercept	-0.366202



Spirit River SO2 Calibration



October 16, 2007

Calibration Report



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

Station Information

Calibration Date	October 16, 2007	Previous Calibration	September 20, 2007
Station Number	6	Station Location	Spirit River
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	13:30	End Time (MST)	19:00
Barometric Pressure	28.0 inches Hg	Station Temperature	21.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentration	5.14 ppm	Cal Gas Expiry Date	11/15/2005
Gas Cert Reference	LL 74274		
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 5 volt	DACS channel #	8
	Before		After
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.001617	Calculated slope	1.005693
Calculated intercept	0.908086	Calculated intercept	0.522793
Analyzer make	TEI 43C	Analyzer serial #	609716238

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	4.8	ppb	4.8	ppb
Coefficient	1.055		1.055	
Lamp Voltage	801	V	801	V
Chamber Temp	43.9	C	43.9	C
Perm gas Temp	45	C	45	C
Pressure	675	mmHg	675	mmHg
Sample Flow	441	ccm	441	ccm
Lamp Intensity	38522.0	Hz	38522.0	Hz

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.0	0.0	-0.7	N/A
4992	69.85	70.9	69.9	1.0152
4992	39.93	40.8	40.3	1.0133
4992	9.96	10.2	9.8	1.0490
4992	0.00	0.0	-0.7	As found zero
4992	69.85	70.9	69.9	As found span
Average Correction Factor				1.0258

Calculated value of As Found Response: 71.59 ppm Percent Change of As Found: -0.9%

	before calibration		after calibration	
Auto zero	0.4	ppm	0.0	ppm
Auto span	48.6	ppm	80.0	ppm

Notes: During calibration operator created an electrical error with the DACS, problem was solved during calibration.

Calibration Performed By: Conor Whiteley

Calibration Summary

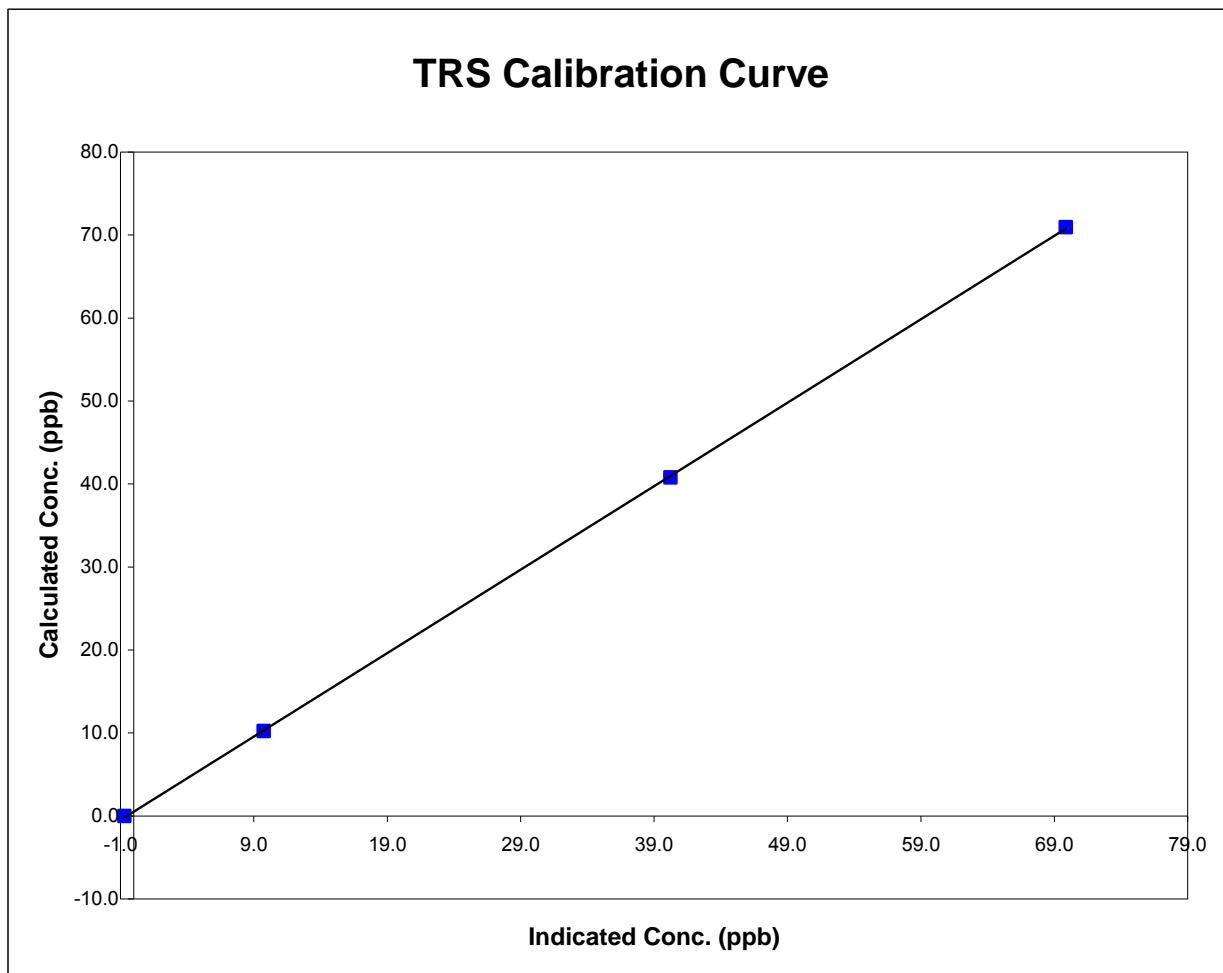
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

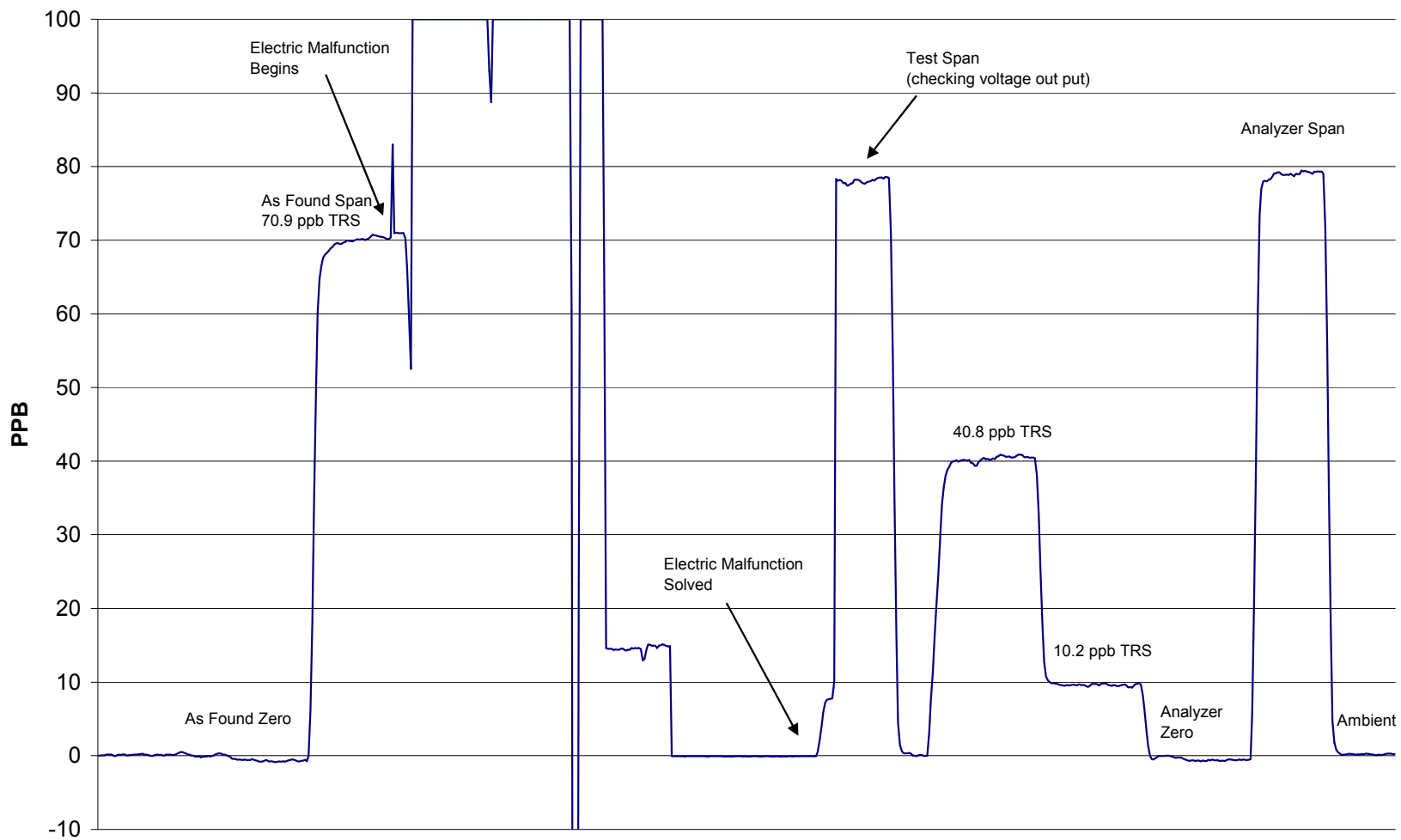
Calibration Date	October 16, 2007	Previous Calibration	September 20, 2007
Station Number	6	Station Location	Spirit River
Start Time (MST)	13:30	End Time (MST)	19:00
Analyzer make/model	TEI 43C	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.7	N/A		
70.9	69.9	1.0152	Correlation Coefficient	0.999965
40.8	40.3	1.0133		
10.2	9.8	1.0490	Slope	1.005693
			Intercept	0.522793



Spirit River TRS Calibration



October 16, 2007

Calibration Report



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

Station Information

Calibration Date	October 16, 2007	Previous Calibration	September 20, 2007
Station Number	8	Station Location	Rover - Spirit River
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	12:05	End Time (MST)	14:20
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	0.992987	Calculated slope	1.028741
Calculated intercept	-5.650203	Calculated intercept	-1.914690
Analyzer make	TEI Model 49C	Analyzer serial #	609-716240

	before		after	
Concentration range	0-500	ppb	0-500	ppb
Offset	0.2	ppb	0	ppb
Span	1.022		1.022	
Cell A	81360	Hz	114243	Hz
Cell B	80,638	Hz	111,177	Hz
Pressure	688	in Hg	685	in Hg
CellA Flow	667	ccm	668	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	0.3	N/A
4992	0.00	305.4	299.3	1.0203
4992	0.00	209.9	202.9	1.0343
4992	0.00	105.9	108.7	0.9742
4992	0.00	0.0	0.3	As found zero
4992	0.00	305.4	299.3	As found span
Average Correction Factor				1.0096

Calculated value of As Found Response: 291.2 ppm Percent Change of As Found: -4.6%

	before calibration		after calibration	
Auto zero	-7.7	ppb	-3.6	ppb
Auto span	327.1	ppb	365.4	ppb

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary



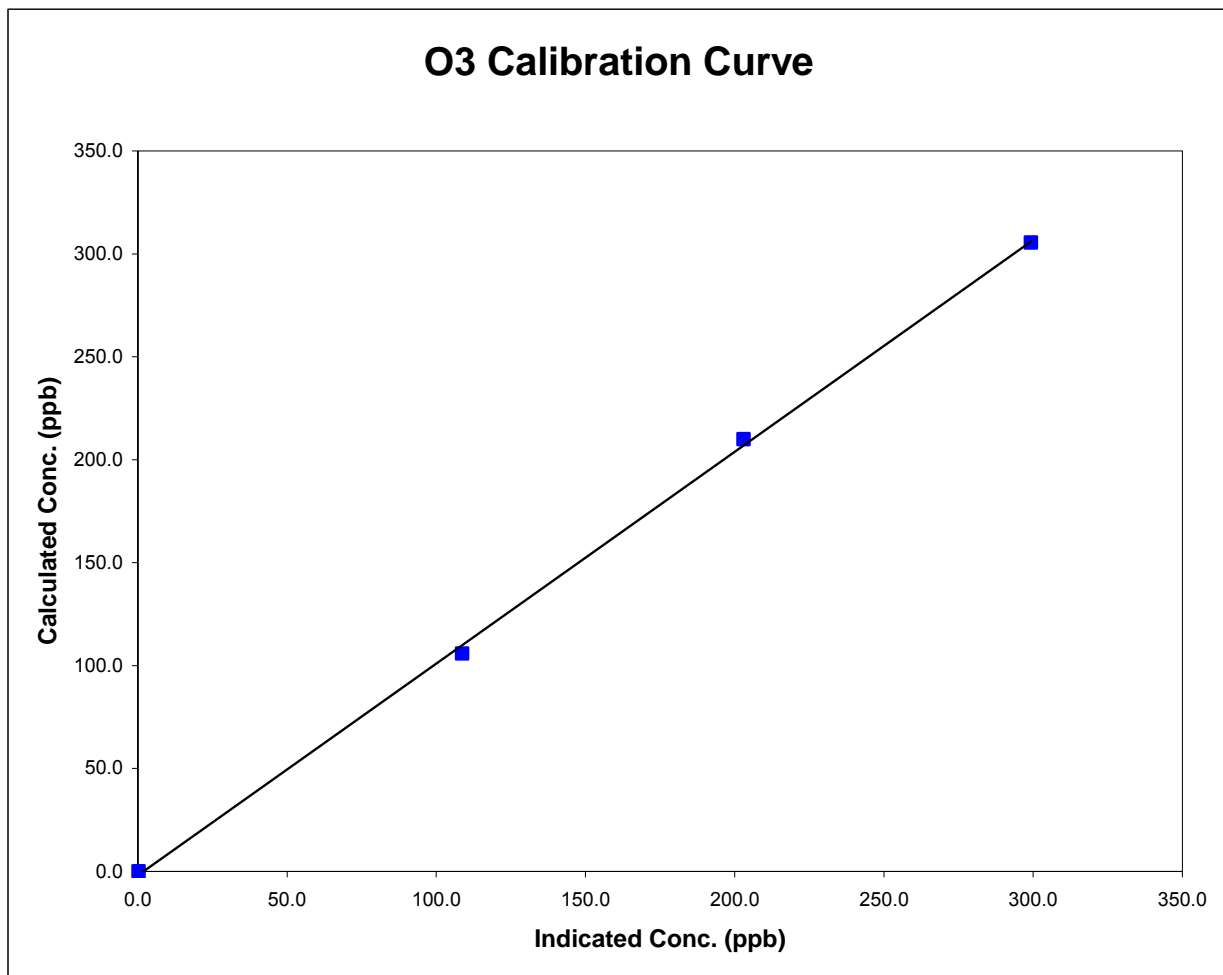
Parameter **O3**
 Air Monitoring Network **PASZA**

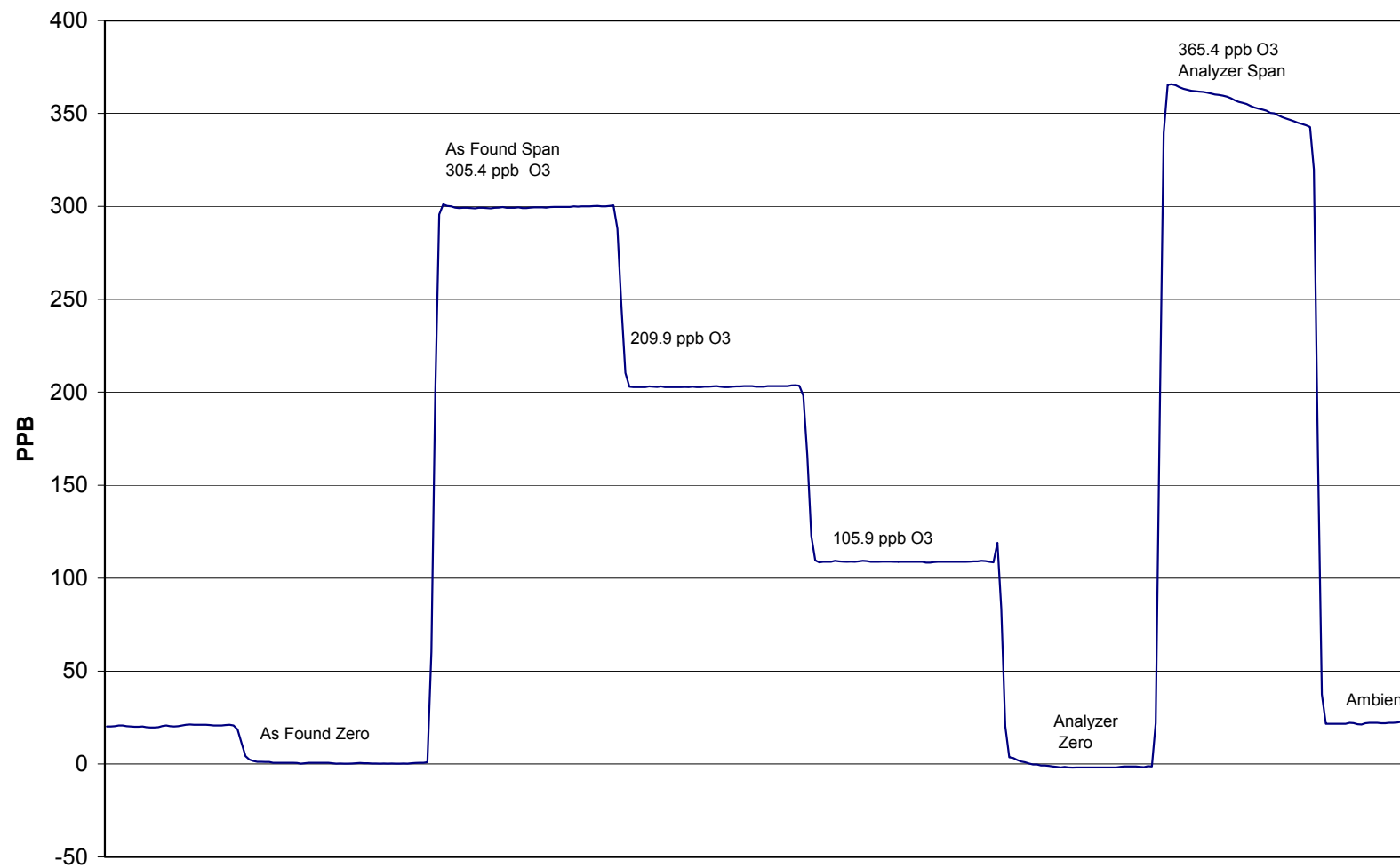
Station Information

Calibration Date	October 16, 2007	Previous Calibration	September 20, 2007
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	12:05	End Time (MST)	14:20
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	0.3	NA		
305.4	299.3	1.0203	Correlation Coefficient	0.999458
209.9	202.9	1.0343		
105.9	108.7	0.9742	Slope	1.028741
			Intercept	-1.914690



Spirit River O3 Calibration

October 16, 2007

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA

**Station Information**

Calibration Date	October 16, 2007	Previous Calibration	September 20, 2007
Station Number	8	Station Location	Rover - Spirit River
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Installation	<input type="checkbox"/> Removal
Start Time (MST)	8:50	End Time (MST)	13:00
Barometric Pressure	27.43 Inches Hg	Station Temperature	22.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
NO Cal Gas Conc	48.9 ppm	Cal Gas Expiry Date	2-Jan-09
NOx Cal Gas Conc	48.9 ppm	Cal Gas Serial #	LL-16161

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	52662
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Parameter		NO2	NOx	NO
Before	Data Slope	1.000805	1.001947	1.002285
	Data Offset	-0.320988	-2.323353	-2.335018
After	Data Slope	1.052093	1.055815	1.054584
	Data Offset	0.018992	-1.854385	-1.829176
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model	TECO 42i	Analyzer serial #	701120011
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Test Point	before		after	
Concentration range	0-1000	ppb	0-1000	ppb
NO background	4.1	ppb	4.1	mV
NOx background	4.3	ppb	4.3	mV
NO coefficient	0.661		0.661	
NOx coefficient	0.999		0.999	
Chamber Temp	50.1	Deg C	50.1	Deg C
Cooler Temp	-2.6	Deg C	-2.6	Deg C
NO2 Converter Temp	325.8	Deg C	325.8	Deg C
Sample Flow	673.0	ccm	671.7	ccm
Ozonator Flow	OK	LPM	OK	LPM
Pressure	157.2	mm Hg	159.1	mm Hg

Notes:

Calibration Performed By: Conor Whiteley

Calibration Report



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

Station Information

Calibration Date: **October 16, 2007** Station Location: **Rover - Spirit River**

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	
zero	4989	0.00	0.0	0.0	0.0	0.2	0.0	0.3	N/A	N/A	
1	4989	39.84	387.4	387.4	0.0	367.8	368.1	0.6	1.0533	1.0524	
2	4989	19.89	194.2	194.2	0.0	186.7	186.9	0.6	1.0399	1.0388	
3	4989	9.93	97.1	97.1	0.0	95.1	95.4	0.4	1.0209	1.0178	
AFZ											
AFS											
									Average Correction Factor	1.0381	1.0363

As Found Concentrations: NO_x= NA NO= NA As Found Percent Change NO_x= NA NO= NA

GPT Calibration Data

Dilution Flow 4989 ccm Source Gas Flow 39.82 ccm

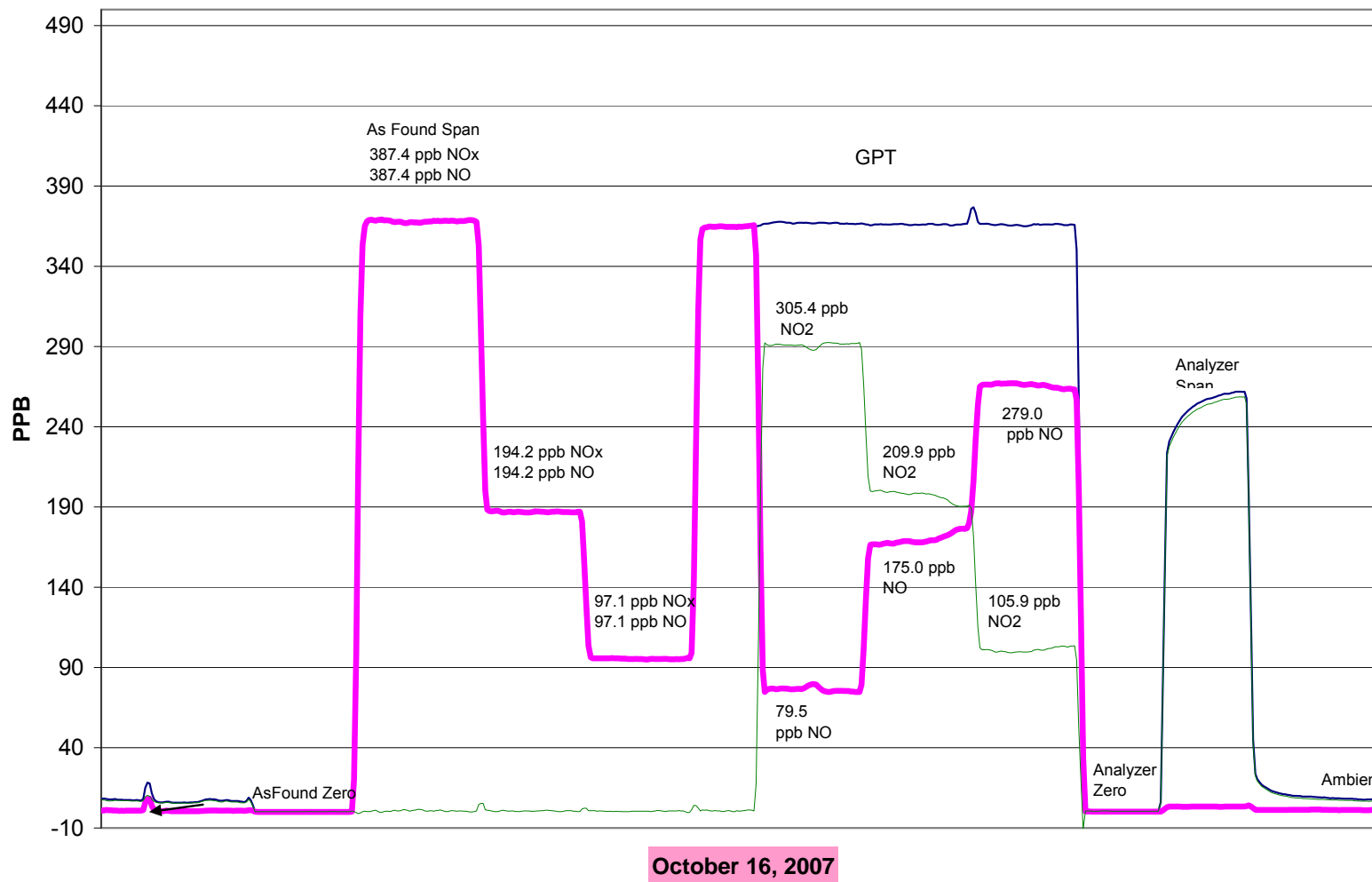
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency	
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A	
NO point	384.9	382.2	2.7	363.7	364.2	0.7	1.0582	1.0496	N/A	N/A	
300	384.9	79.5	305.4	367.1	77.1	290.5	1.0483	1.0309	1.0511	95.1%	
200	384.9	175.0	209.9	366.1	167.7	199.2	1.0514	1.0437	1.0537	94.9%	
100	384.9	279.0	105.9	365.7	266.3	100.3	1.0525	1.0477	1.0553	94.8%	
							Average Correction Factor	1.0508	1.0408	1.0534	94.9%

AIC Data

Parameter	Previous calibration				Current calibration			
	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	NA	NA	NA	ppb	-0.4	0.9	0.7	ppb
Auto span	225.4	222.0	1.8	ppb	272.1	269.4	1.7	ppb

Calibration Performed By: Conor Whiteley

Spirit River NOx Calibration



Calibration Summary

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

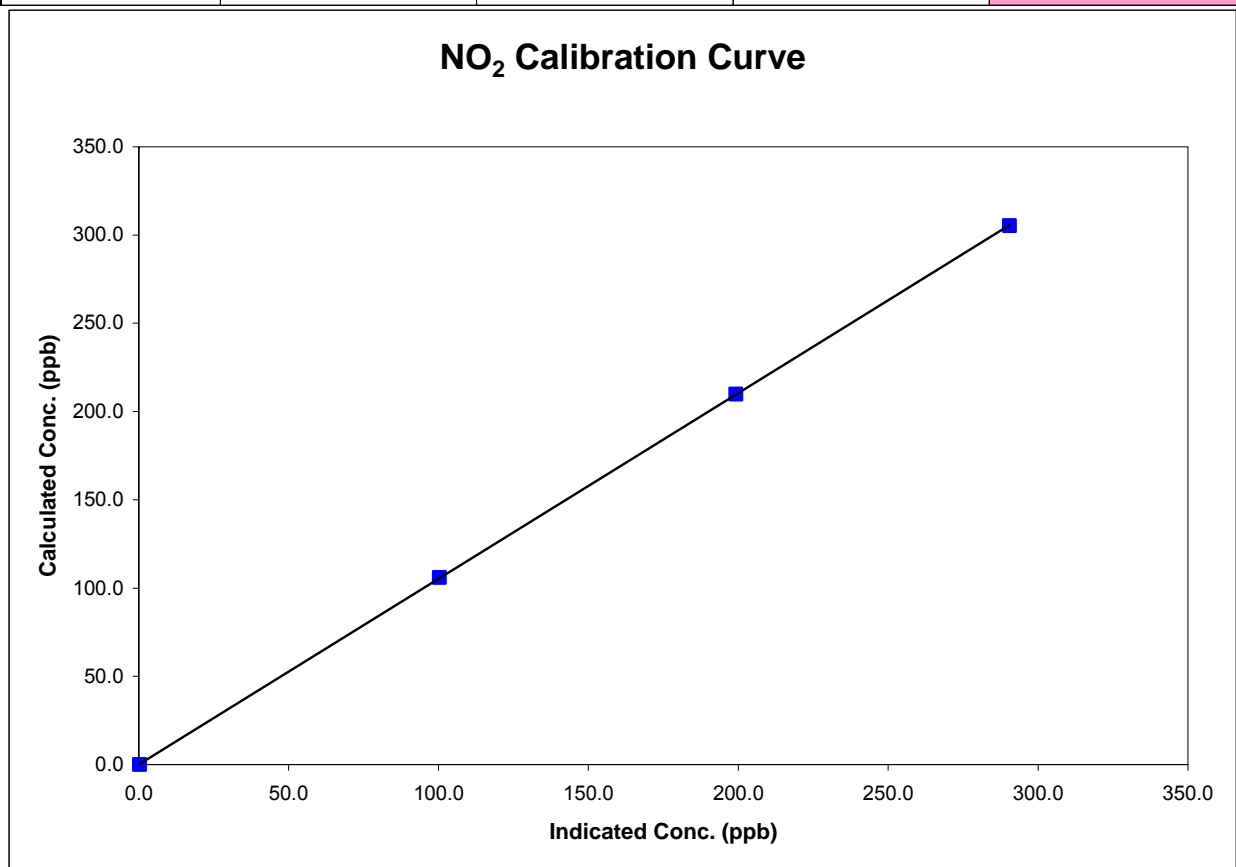


Station Information

Calibration Date	October 16, 2007	Previous Calibration	September 20, 2007
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	8:50	End Time (MST)	13:00
Analyzer make	TECO 42i	Analyzer serial #	701120011

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	0.0000		
305.4	290.5	1.0511	Correlation Coefficient	0.999993
209.9	199.2	1.0537		
105.9	100.3	1.0553	Slope	1.052093
			Intercept	0.018992



Calibration Summary

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

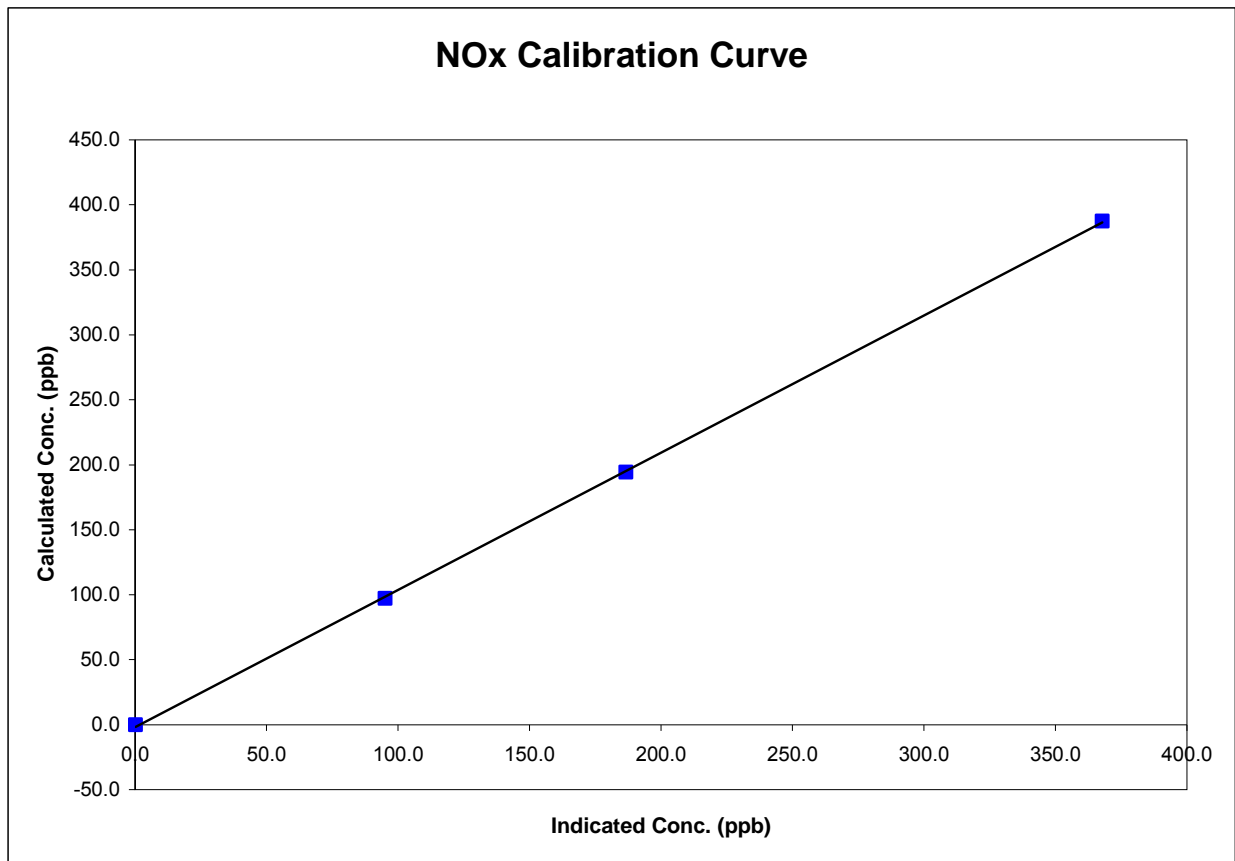


Station Information

Calibration Date	October 16, 2007	Previous Calibration	September 20, 2007
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	8:50	End Time (MST)	13:00
Analyzer make	TECO 42i	Analyzer serial #	701120011

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	0.0000	Correlation Coefficient	0.999915
387.4	367.8	1.0533		
194.2	186.7	1.0399		
97.1	95.1	1.0209		
			Slope	1.055815
			Intercept	-1.854385



Calibration Summary

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

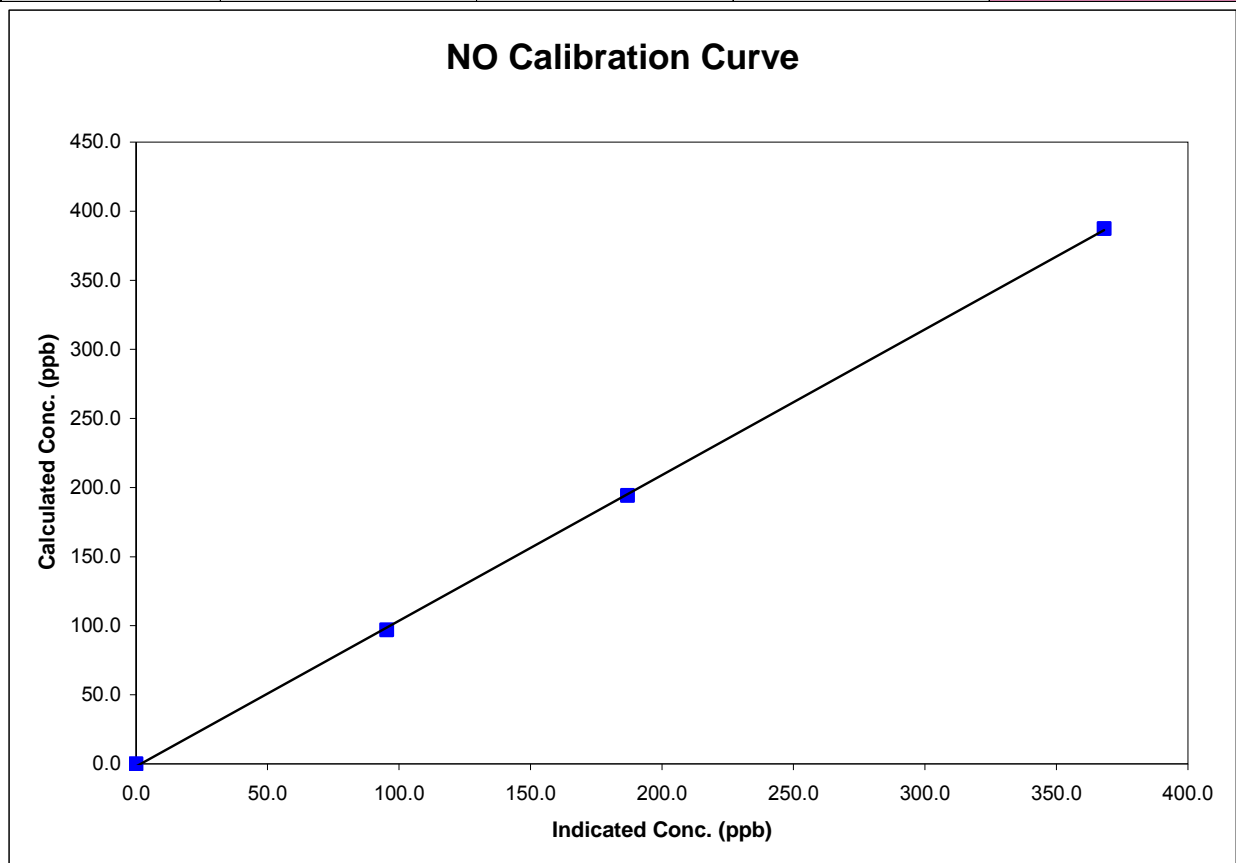


Station Information

Calibration Date	October 16, 2007	Previous Calibration	September 20, 2007
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	8:50	End Time (MST)	13:00
Analyzer make	TECO 42i	Analyzer serial #	701120011

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
387.4	368.1	1.0524	Correlation Coefficient	0.999898
194.2	186.9	1.0388		
97.1	95.4	1.0178		
			Slope	1.054584
			Intercept	-1.829176



Calibration Report

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

Station Information

Calibration Date	October 17, 2007	Previous Calibration	September 11, 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)	12:00	End Time (MST)	14:50
Barometric Pressure	27.22 inches Hg	Station Temperature	23.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	7/27/2009
Gas Cert Reference	LL16161		
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.002667	Calculated slope	1.003970
Calculated intercept	0.075192	Calculated intercept	-0.925598
Analyzer make	TEI 43i	Analyzer serial #	43C-57351-313

	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
Background	32.7		27.8	
Coefficient	0.876		0.741	
UV Lamp Voltage	691	LPM	694	LPM
Chamber Temp	44.3	V	44.3	V
Perm Gas Temp	30.5	C	30.5	C
Pressure	639.6	in Hg	632.5	in Hg
Sample Flow	0.474	LPM	0.47	LPM
Lamp Intesity	45776	Hz	45574	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	-0.3	N/A
4993	39.86	398.4	397.1	1.0032
4993	19.90	199.7	200.4	0.9963
4992	9.99	100.5	102.2	0.9834
4992	0.00	0.0	-0.3	As found zero
4992	39.94	399.2	397.1	As found span
Average Correction Factor				0.9943

Calculated value of As Found Response: 398.495 ppm Percent Change of As Found: 0.2%

	before calibration		after calibration	
Auto zero	-0.2	ppm	-1.1	ppm
Auto span	986.2	ppm	95.1	ppm

Notes: New Span permeation tube in place as of 10/02/07

Calibration Performed By: Conor Whiteley

Calibration Summary



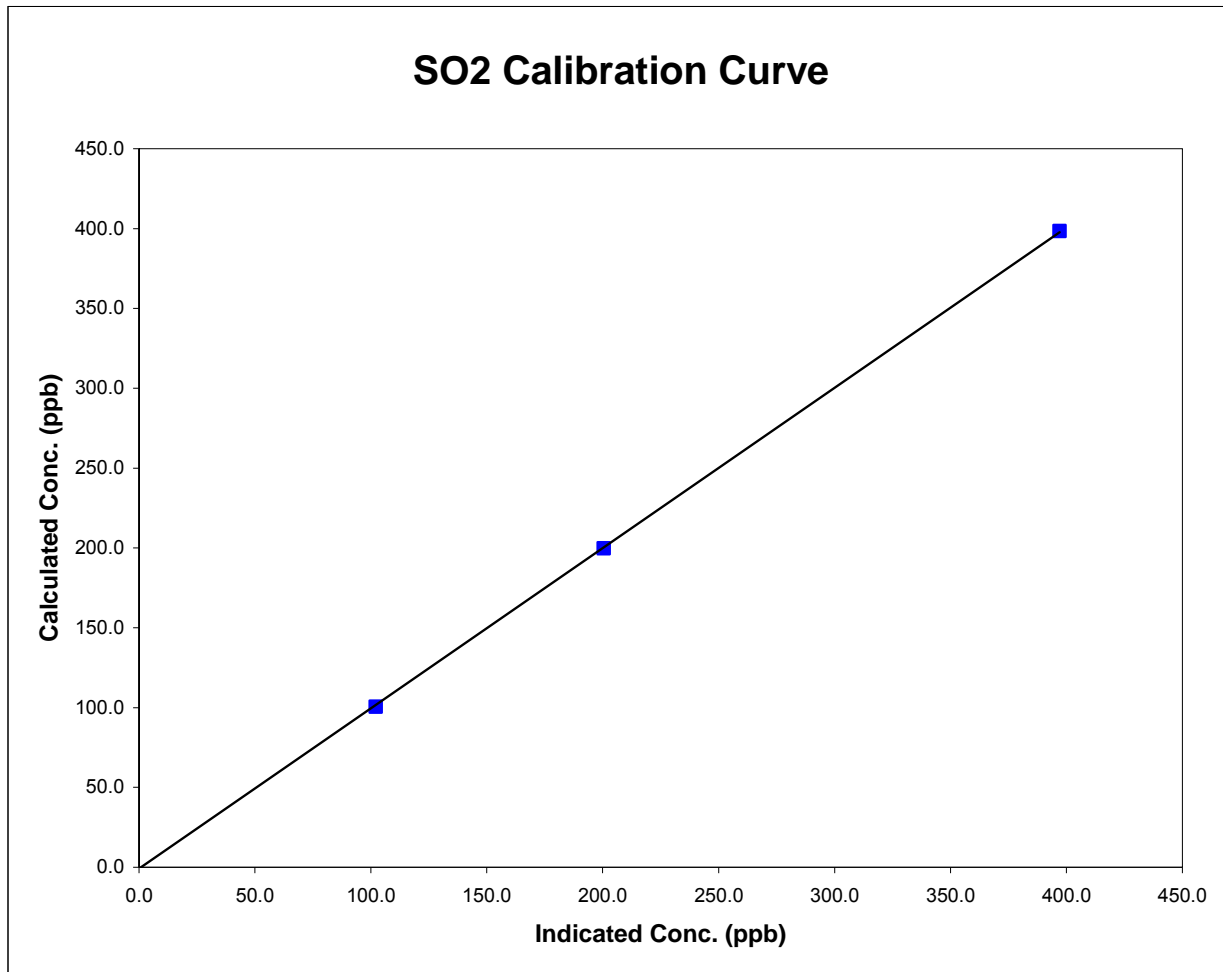
Parameter **SO2**
 Air Monitoring Network **PASZA**

Station Information

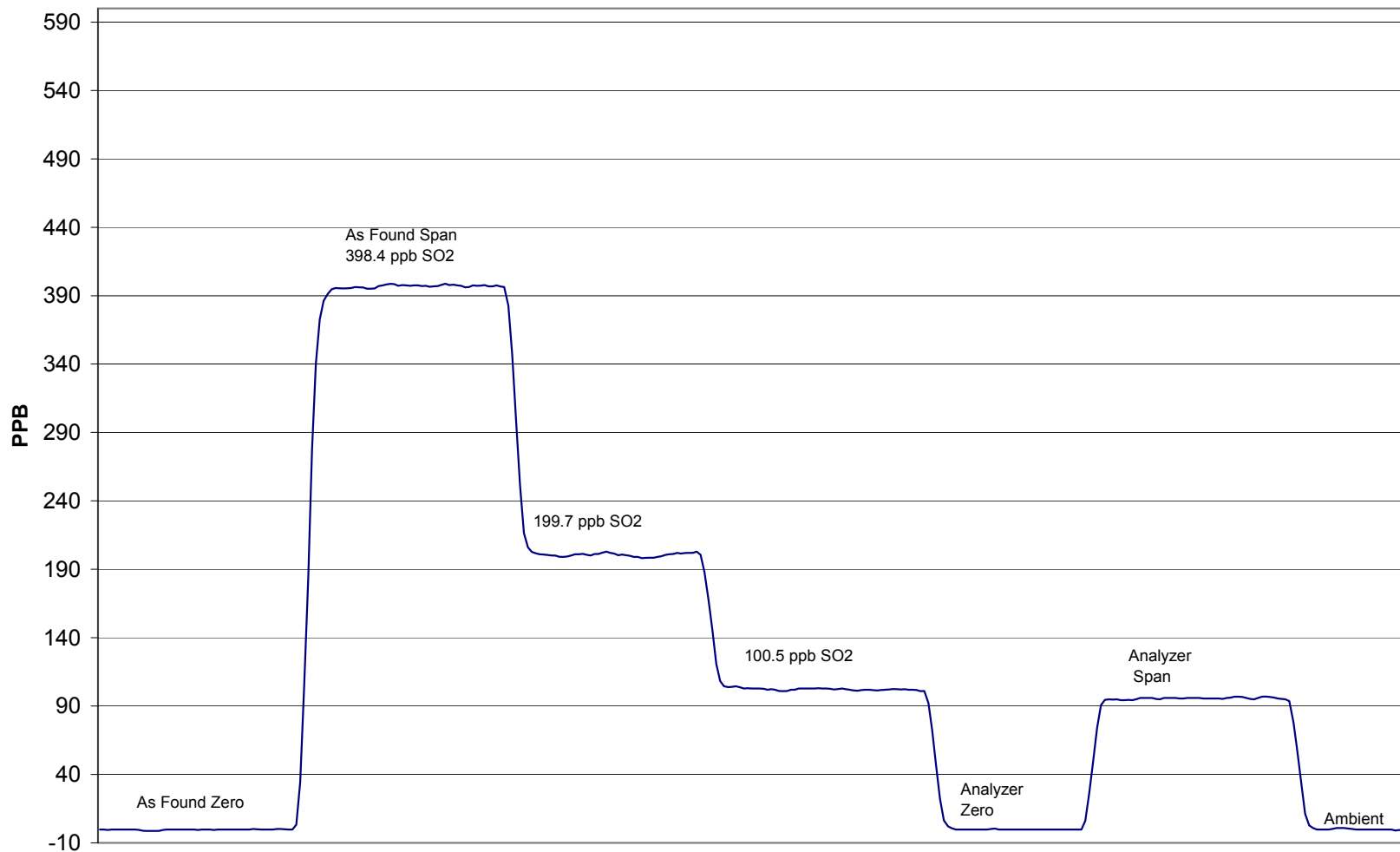
Calibration Date	October 17, 2007	Previous Calibration	September 11, 2007
Station Number	6	Station Location	Valleyview
Start Time (MST)	12:00	End Time (MST)	14:50
Analyzer make/model	TEI 43i	Analyzer serial #	43C-57351-313

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	N/A		
398.4	397.1	1.0032	Correlation Coefficient	0.999959
199.7	200.4	0.9963		
100.5	102.2	0.9834	Slope	1.003970



Valleyview SO2 Calibration



October 17, 2007

Calibration Report

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

Station Information

Calibration Date	October 17, 2007	Previous Calibration	September 11, 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)	13:55	End Time (MST)	17:00
Barometric Pressure	27.22 inches Hg	Station Temperature	23.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	5.14 ppm	Cal Gas Expiry Date	11/29/2006
Gas Cert Reference	LL 74274		
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.998332	Calculated slope	0.997614
Calculated intercept	0.485601	Calculated intercept	0.188330
Analyzer make	TEI Model 43A	Analyzer serial #	43A-25575-221

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Back Ground	4.8	ppb	4.8	ppb
Coefficient	1.055		1.055	
Lamp Voltage	805	v	803	v
Chamber Temp	45.1	c	45	c
Perm Oven Temp	45	c	44.99	c
Pressure	651	mm Hg	635	mm Hg
Sample Flow	434	ccm	426	ccm
Lamp Intensity	91.0	%	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)
4992	0.00	0.0	-0.3	N/A
4998	69.78	70.8	70.8	1.0001
4992	39.83	40.7	40.5	1.0035
4992	9.96	10.2	10.2	1.0042
4992	0.00	0.0	-0.3	As found zero
4992	69.88	71.0	70.8	As found span
Average Correction Factor				1.0026

Calculated value of As Found Response: 71.40 ppm Percent Change of As Found: -0.6%

	before calibration		after calibration	
Auto zero	0.2	ppm	0.0	ppm
Auto span	67.6	ppm	68.1	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

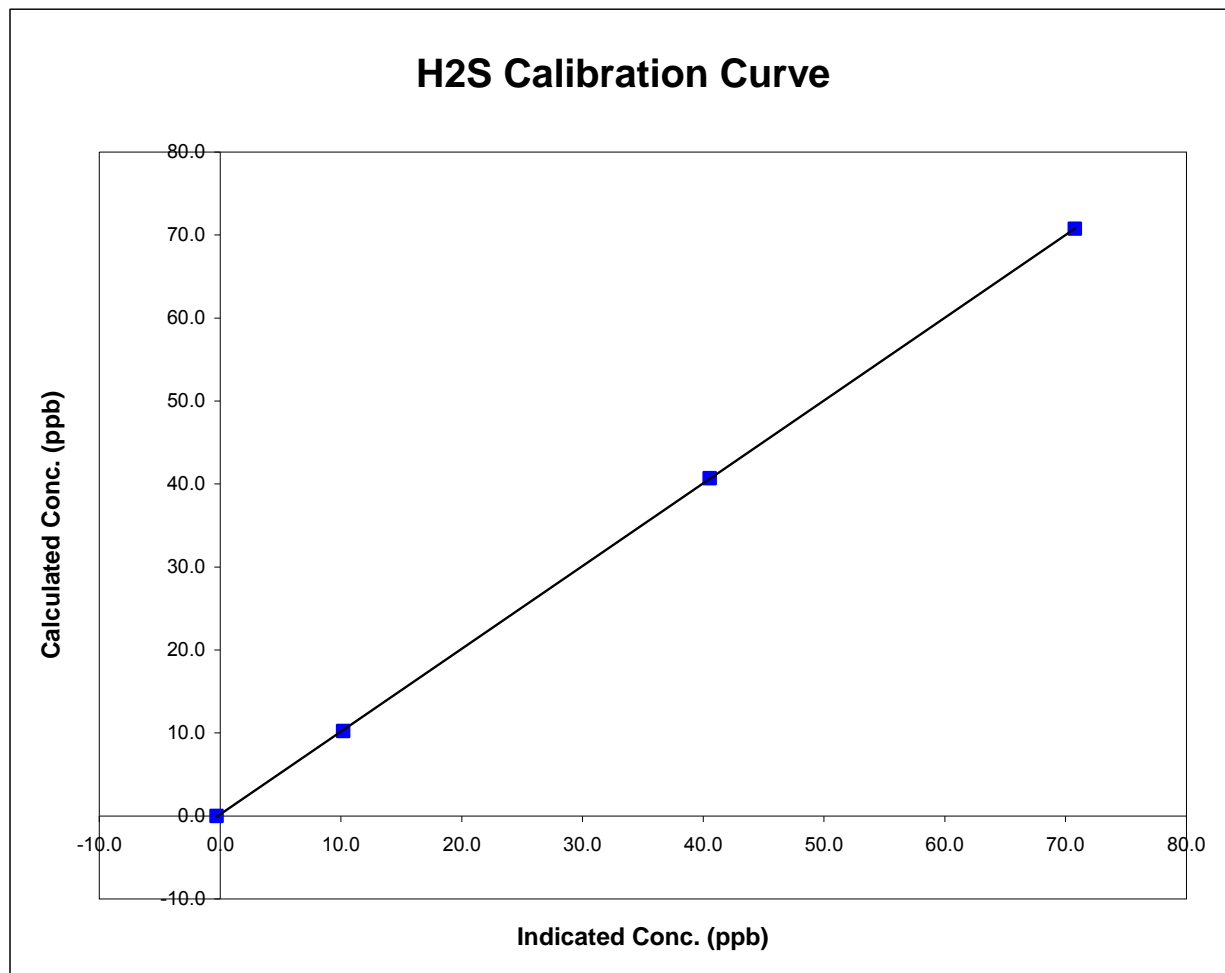
Parameter **H2S**Air Monitoring Network **PASZA**

Station Information

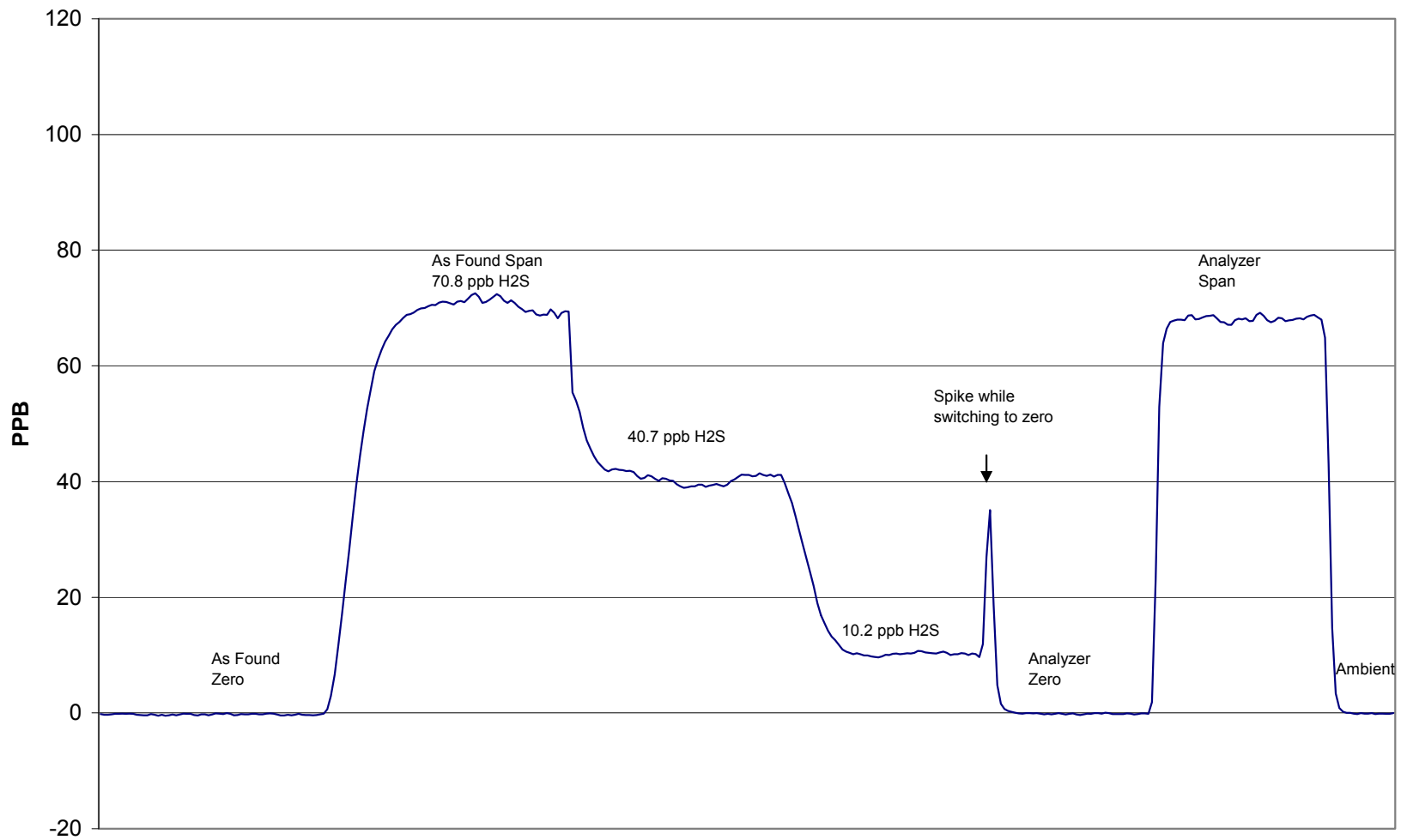
Calibration Date	October 17, 2007	Previous Calibration	September 11, 2007
Station Number	5	Station Location	Valleyview
Start Time (MST)	13:55	End Time (MST)	17:00
Analyzer make/model	TEI Model 43A	Analyzer serial #	43A-25575-221

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	N/A		
70.8	70.8	1.0001	Correlation Coefficient	0.999992
40.7	40.5	1.0035		
10.2	10.2	1.0042	Slope	0.997614
			Intercept	0.188330



Valleyview H2S Calibration



October 17, 2007