



Air Quality Monitoring Network for June 2008

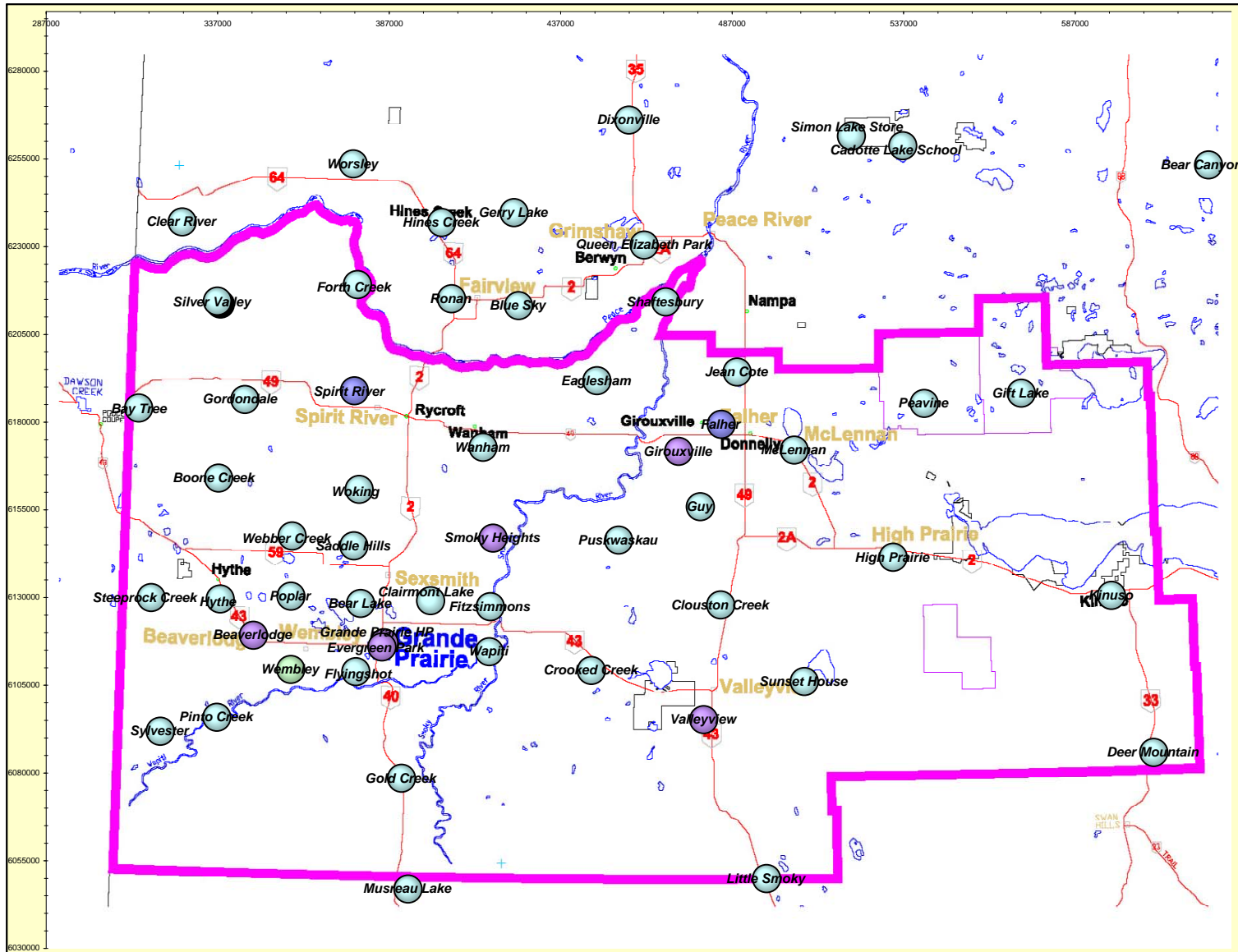
Prepared by
FOCUS
 AMBIENT AIR MONITORING

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Location of PASZA Continuous and Passive Monitoring Stations





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August 14, 2008

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RE: Peace Airshed Zone Association (PASZA) – June 2008 Ambient Air Report

Enclosed is the PASZA Ambient Monitoring Network Report for the month of **June 2008**.

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 week of June 16th to 20th all analyzers and sensors were audited by Alberta Environment. For further information regarding the audit please contact Michael Bisaga, PASZA Program Manager.

During the month of June the following events were noted:

Henry Pirker Station:

- ◆ All analyzers / sensors at the Henry Pirker station had an operational uptime greater than 90%.
- ◆ Maintenance was performed on June 7th (manifold was cleaned).
- ◆ There were no THC spans from June 3rd to 12th – cylinder was empty.
- ◆ There was no CO span June 1st and 23rd – due to pressure issues from span cylinder.
- ◆ Alberta Environment audit was performed on June 18th at the Henry Pirker station.
- ◆ The AQI for the month resulted in 657 hours of Good readings and 17 Fair readings.

Evergreen Park Station:

- ◆ All analyzers / sensors at the Evergreen Park station had an operational uptime greater than 90%.
- ◆ The power bar failed at the station resulting in both the TRS and TEOM pumps to fail – data was flagged invalid from June 29th to end of month (27 hours).
- ◆ Alberta Environment audit was performed on June 18th at the Evergreen station.

Smoky Heights Station:

- ◆ All analyzers / sensors at the Smoky Heights station had an operational uptime greater than 90%.
- ◆ A power bump on June 30th resulted in one (1) hour of invalid data for the TEOM.
- ◆ Alberta Environment audit was performed on June 16th at the Smoky Heights station.

Beaverlodge Station:

- ◆ All analyzers / sensors at the Beaverlodge station had an operational uptime greater than 90%, except the TEOM. The TEOM had an operational uptime of 84% - one hundred and six (106) hours were flagged invalid – **Alberta Reference # 204240.**
- ◆ Alberta Environment audit was performed on June 17th at the Beaverlodge station.
- ◆ The AQI for the month resulted in 560 hours of Good readings and 9 Fair readings.

Portable – Spirit River Station:

- ◆ All analyzers / sensors at the Spirit River station had an operational uptime of 100%, except the wind speed and direction sensor. The ultrasonic wind speed and direction sensor had an operational uptime of 79% - a total of one hundred and fifty (150) hours were flagged invalid – **Alberta Reference # 204240.**
- ◆ Power failures on June 9th and 12th resulted in a total of thirty-eight (38) hours of invalid data for all parameters.
- ◆ Alberta Environment audit was performed on June 17th at the Spirit River station.

Valleyview Station:

- ◆ All analyzers / sensors at the Valleyview station had an operational uptime of 100%.
- ◆ Alberta Environment audit was performed on June 20th at the Valleyview station.

Passive Monitoring - 54 Stations throughout the PASZA zone:

There were seven duplicate sites sampled in the month of June: Bay Tree, Woking, Webber Creek, Saddle Hills, Jean Cote, Bear Canyon and Grande Prairie HP. One of the SO₂ duplicate samples at Bear Canyon was found at the site damaged – there is no result for said sample. The passive sample analyses were performed by MAXXAM Analytics Inc.

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

- Monthly average concentrations for SO₂ passives ranged from 0.0 ppb to 0.4 ppb, with a mean of 0.1 ppb.
- Monthly average concentrations for NO₂ passives ranged from 0.3 ppb to 3.6 ppb, with a mean of 1.2 ppb.
- Monthly average concentrations for O₃ passives ranged from 12.1 ppb to 41.3 ppb, with a mean of 29.9 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

Jun-2008 Peace Airshed Zone Association							Maximum Recorded Values						Operational Time (%)
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		Conc	1-hr		24-hr / 8-hr			
	1-hr	24-hr			1-hr	24-hr		Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	
SO ₂ (ppb)	172	57	Henry Pirker	0.2	0	0	5.3	Jun-01 09:00	11.2	SE	0.7	Jun-01	99.9%
SO ₂ (ppb)	172	57	Evergreen Park	0.4	0	0	7.2	Jun-02 11:00	6.8	SSE	1.2	Jun-08	100.0%
SO ₂ (ppb)	172	57	Smoky Heights	0.3	0	0	10.5	Jun-27 01:00	19.0	WSW	1.1	Jun-27	100.0%
SO ₂ (ppb)	172	57	Beaverlodge	0.3	0	0	33.3	Jun-04 16:00	12.8	WSW	1.9	Jun-04	100.0%
SO ₂ (ppb)	172	57	Portable-Spirit River	0.2	0	0	2.6	Jun-11 09:00	2.6	WSW	0.6	Jun-30	94.6%
SO ₂ (ppm)	172	57	Valleyview	0.43	0	0	8.17	Jun-26 20:00	8.3	W	0.91	Jun-14	100.0%
NO (ppb)			Henry Pirker	0.9	-	-	21.7	Jun-02 07:00	3.6	SW	3.4	Jun-24	99.9%
NO ₂ (ppb)	212	106	Henry Pirker	4.8	0	0	25.3	Jun-16 22:00	2.3	NNW	6.9	Jun-02	99.9%
NO _x (ppb)			Henry Pirker	5.7	-	-	42.4	Jun-02 07:00	3.6	SW	10.0	Jun-02	99.9%
NO (ppb)			Beaverlodge	0.2	-	-	7.6	Jun-24 06:00	2.2	SSW	1.1	Jun-24	100.0%
NO ₂ (ppb)	212	106	Beaverlodge	1.9	0	0	9.3	Jun-10 06:00	8.3	NW	3.3	Jun-02	100.0%
NO _x (ppb)			Beaverlodge	2.1	-	-	14.6	Jun-24 08:00	3.1	NW	3.9	Jun-02	100.0%
NO (ppb)			Portable-Spirit River	0.6	-	-	13.2	Jun-02 03:00	4.0	WNW	1.8	Jun-02	94.6%
NO ₂ (ppb)	212	106	Portable-Spirit River	3.4	0	0	18.6	Jun-02 03:00	4.0	WNW	7.2	Jun-02	94.6%
NO _x (ppb)			Portable-Spirit River	3.9	-	-	31.7	Jun-02 03:00	4.0	WNW	9.0	Jun-02	94.6%
O ₃ (ppb)	82		Henry Pirker	31.5	0	-	57.4	Jun-02 12:00	11.2	SE	40.3	Jun-01	99.9%
O ₃ (ppb) - 8-hr		65	Henry Pirker			0					55.1	Jun-02	
O ₃ (ppb)	82		Beaverlodge	30.8	0	-	55.5	Jun-02 17:00	12.0	ESE	42.2	Jun-01	100.0%
O ₃ (ppb) - 8-hr		65	Beaverlodge			0					54.5	Jun-02	
O ₃ (ppb)	82		Portable-Spirit River	29.9	0	-	61.1	Jun-03 15:00	10.7	ESE	39.1	Jun-03	94.7%
O ₃ (ppb) - 8-hr		65	Portable-Spirit River			0					59.9	Jun-02	
CO (ppm)	13		Henry Pirker	0.17	0	-	0.6	Jun-20 00:00	2.7	ESE	0.2	Jun-02	99.9%
CO (ppm) - 8-hr		5	Henry Pirker			0					0.4	Jun-21	
THC (ppm)			Henry Pirker	1.92	-	-	2.5	Jun-11 00:00	4.1	SSE	2.0	Jun-30	99.9%
TRS (ppb)			Henry Pirker	0.3	-	-	1.0	Jun-30 01:00	2.7	W	0.4	Jun-30	99.9%
TRS (ppb)			Evergreen Park	0.5	-	-	2.2	Jun-21 09:00	4.1	SW	0.7	Jun-23	96.3%
TRS (ppb)			Smoky Heights	0.4	-	-	1.3	Jun-09 05:00	5.5	SW	0.6	Jun-30	100.0%
TRS (ppb)			Portable-Spirit River	0.5	-	-	1.0	Apr-30 07:00	9.0	NE	0.6	Apr-04	100.0%
H ₂ S (ppb)	10	3	Valleyview	0.1	0	0	0.9	Jun-30 02:00	2.2	SSE	0.3	Jun-10	100.0%
PM _{2.5} (µg/m ³)	80	30	Henry Pirker	5.5	0	0	23.0	Jun-01 22:00	5.4	NNE	7.1	Jun-02	99.9%
PM _{2.5} (µg/m ³)	80	30	Evergreen Park	5.7	0	0	63.8	Jun-03 17:00	24.4	W	9.6	Jun-02	96.1%
PM _{2.5} (µg/m ³)	80	30	Smoky Heights	5.4	1	0	26.5	Jun-28 22:00	7.0	WSW	9.2	Jun-30	98.6%
PM _{2.5} (µg/m ³)	80	30	Beaverlodge	3.6	0	0	16.5	Jun-02 21:00	6.0	SE	7.8	Jun-02	84.4%

Continuous Network Equipment Summary

PASZA – Henry Pirker Station

General Station Issues

Routine monthly calibrations were performed on June 3rd (TRS), June 4th (SO₂ & NO_x), June 5th (O₃ & CO) and June 6th (THC). A second CO calibration was performed on June 9th. The Alberta Environment audit was performed on June 18th.

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed.
NOx/NO/NO ₂	TEI	42C	No operational issues observed.
O ₃	TEI	49C	No operational issues observed.
CO	TEI	48C	There was no CO span June 1 st and 23 rd – due to pressure issues from span cylinder.
THC	TEI	51-CLT	There were no THC spans from June 3 rd to 12 th – cylinder was empty
TRS	TEI	43C	No operational issues observed.
PM _{2.5}	R&P	1400AB	Six (6) hour were flagged due to excessive baseline drift.
RH	Met One	083D	No operational issues observed.
AT	Met One	083D	No operational issues observed.
SR	Met One	096-1	No operational issues observed.
WS/WD	Met One	010C/020C	No operational issues observed.

PASZA – Evergreen Park Station

General Station Issues

Routine monthly calibrations were performed on June 24th (SO₂, TRS). The Alberta Environment audit was performed on June 18th.

Parameter	Make	Model	Notes
SO ₂	TEI	43i	No operational issues observed.
TRS	TEI	43C	The power bar failed at the station resulting in the TRS pump to fail – data was flagged invalid from June 29 th to end of month (27 hours).
PM _{2.5}	R&P	1400AB	The power bar failed at the station resulting in the TEOM pump to fail – data was flagged invalid from June 29 th to end of month (27 hours). One (1) hour were flagged due to a power bump.
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 June 23rd (SO₂, TRS & PM_{2.5}). The Alberta Environment audit was performed on June 16th

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed.
TRS	TEI	43C	No operational issues observed.
PM _{2.5}	R&P	1400AB	A power bump resulted in one (1) hour of invalid data on June 30 th . Eight (8) hours were flagged invalid 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 – Beaverlodge Station

General Station Issues

Routine monthly calibrations were performed on June 26th (SO₂, NO_x & O₃). The Alberta Environment audit was performed on June 17th.

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	Due to an improperly seated filter and tech error in recognizing the TEOM failure - one hundred and six (106) hours were flagged invalid – Alberta Reference # 204240.
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 June 12th (SO₂, NO_x and O₃) and June 13th (TRS). Power failures on June 9th and 12th resulted in a total of thirty-eight (38) hours of invalid data for all parameters. The Alberta Environment audit was performed on June 17th.

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed.
NO _x /NO/NO ₂	TEI	42i	No operational issues observed.
TRS	TEI	43C	No operational issues observed.
O ₃	TEI	49C	No operational issues observed.
AT	Gill	Met Pak 3	No operational issues observed.
RH	Gill	Met Pak 3	No operational issues observed.
WS	Met One		Due to a combination of power failures and an intermittent issue (currently under investigation) the ultrasonic wind speed and direction sensor had an operational uptime of 79% - a total of one hundred and fifty (150) hours were flagged invalid – Alberta Reference # 204240.
WD	Met One		Due to a combination of power failures and an intermittent issue (currently under investigation) the ultrasonic wind speed and direction sensor had an operational uptime of 79% - a total of one hundred and fifty (150) hours were flagged invalid – Alberta Reference # 204240.

PASZA – Valleyview Station

General Station Issues

Routine monthly calibrations were performed on June 2nd (SO₂ and H₂S). The Alberta Environment audit was performed on June 20th

Parameter	Make	Model	Notes
SO ₂	TEI	43i	No operational issues observed.
H ₂ S	TEI	43A	No operational issues observed.
AT	Gill	Met Pak 3	No operational issues observed.
RH	Gill	Met Pak 3	No operational issues observed.
WS	Gill	Met Pak 3	No operational issues observed.
WD	Gill	Met Pak 3	No operational issues observed.

PASZA
Henry Pirker Station
Monthly Summary Tables, Graphs and
Roses

PASZA - Henry Pirker AQI Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

Air Quality Index (AQI)

Monitoring Dates: June 1, 2008 to July 1, 2008

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:	657
Number of 1-hr Fair Readings:	17
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day	Mountain Standard Time																							
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1-Jun-08	18	19	19	16	17	20	19	19	18	19	N	22	24	24	25	25	26	27	27	26	21	15	19	15
2-Jun-08	14	13	11	8	5	8	8	9	9	N	21	29	31	28	27	28	30	30	30	28	23	22	20	20
3-Jun-08	20	17	9	8	12	11	12	15	N	19	21	23	25	26	26	29	27	23	23	22	21	19	17	15
4-Jun-08	15	14	12	11	10	N	7	14	17	18	N	N	N	N	24	24	23	21	19	19	18	19	16	15
5-Jun-08	12	13	10	11	8	N	7	8	12	16	17	20	0	2	N	21	22	18	15	14	13	9	7	7
6-Jun-08	8	7	6	7	5	N	6	14	16	18	19	N	N	15	15	16	16	16	17	18	15	13	14	13
7-Jun-08	14	12	9	10	9	N	9	16	17	19	19	N	20	21	22	21	20	17	18	17	16	15	16	17
8-Jun-08	17	16	15	14	13	N	13	15	18	20	21	21	21	22	23	23	23	23	22	22	20	18	15	12
9-Jun-08	9	11	7	7	N	5	8	11	15	18	21	22	23	N	N	23	23	23	22	21	19	16	16	14
10-Jun-08	11	11	10	12	16	N	14	14	15	17	18	18	16	15	16	15	15	19	17	18	14	12	12	11
11-Jun-08	10	7	7	7	N	6	6	8	10	16	16	19	22	23	22	22	23	24	24	24	21	15	11	13
12-Jun-08	12	10	8	N	6	5	7	9	13	15	18	22	24	25	25	24	23	23	21	21	21	21	20	17
13-Jun-08	17	17	N	20	19	17	16	16	19	20	20	20	20	20	20	21	20	20	18	17	17	13	13	12
14-Jun-08	8	10	10	11	10	N	9	11	14	14	15	15	16	16	17	17	16	16	16	18	18	15	19	13
15-Jun-08	12	8	8	6	N	6	6	7	11	15	16	17	18	19	19	19	19	18	17	16	14	11	9	9
16-Jun-08	13	13	12	N	9	8	9	14	18	21	22	23	23	23	24	24	24	25	25	21	14	9	8	8
17-Jun-08	10	23	N	20	17	15	13	15	19	21	20	18	18	20	22	23	22	23	24	23	19	19	16	14
18-Jun-08	13	N	11	10	7	5	6	10	N	N	N	N	N	21	22	22	22	21	18	17	16	15	14	15
19-Jun-08	15	16	16	16	15	N	14	16	17	18	19	21	22	23	23	23	23	23	22	22	21	17	13	15
20-Jun-08	12	12	13	13	N	8	7	12	15	18	20	21	22	23	22	22	23	22	21	19	16	13	8	14
21-Jun-08	16	13	12	N	8	6	8	11	11	12	14	16	18	19	19	19	19	17	17	17	16	15	17	19
22-Jun-08	20	21	N	12	12	13	14	14	15	14	16	16	16	20	22	21	21	22	22	22	21	19	17	18
23-Jun-08	17	N	15	16	12	7	9	15	19	20	20	20	19	17	18	18	18	17	17	15	13	8	6	7
24-Jun-08	N	6	7	3	4	6	5	7	11	11	15	17	19	19	18	18	18	16	15	17	17	14	15	N
25-Jun-08	13	13	12	12	13	11	12	13	14	15	17	17	18	18	17	17	17	17	17	16	16	15	N	17
26-Jun-08	18	16	14	16	15	14	14	14	14	14	14	14	15	15	13	13	14	13	13	12	12	N	12	11
27-Jun-08	11	11	12	13	12	10	9	10	13	14	14	15	15	17	20	20	19	19	19	19	N	12	15	13
28-Jun-08	13	14	11	9	8	8	9	9	12	15	16	16	16	16	16	16	17	18	21	N	20	20	19	16
29-Jun-08	14	13	13	11	11	9	9	12	15	17	17	17	16	16	16	16	15	14	N	12	11	10	8	7
30-Jun-08	7	8	5	6	4	5	8	10	15	19	21	21	20	20	21	22	23	N	23	22	19	16	14	13

PASZA - Henry Pirker Sulphur Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

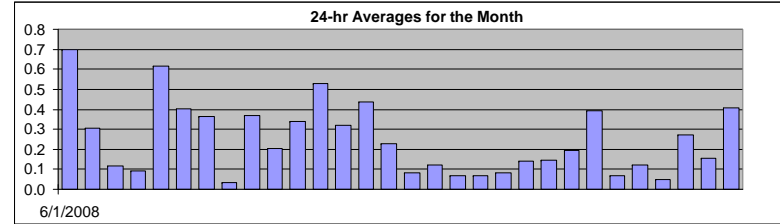
Sulphur Dioxide (SO₂)

Monitoring Dates: June 1, 2008 to July 1, 2008

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:	5.3 ppb 1-Jun 9:00 10:00
Maximum 24-hr Average:	0.7 ppb 1-Jun



AIC Time:	31 hrs	Operational Time:	679 hrs						
Calibration Time:	9 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.3	0.7	0.3	0.2	0.0	0.0	0.0	0.2 ppb	0.2 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start 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-Jun-08	0	0	0	0	0	0	0	0	0	1	5	A	3	2	1	0	0	0	0	0	0	0	0	1	1	0.7	5.3
2-Jun-08	0	0	0	0	0	0	0	0	1	1	A	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0.3	1.7
3-Jun-08	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
4-Jun-08	0	0	0	0	0	A	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
5-Jun-08	1	1	0	1	3	A	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	0.6	3.6
6-Jun-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	0	0	0.4	4.0
7-Jun-08	0	0	5	2	0	A	0	0	0	0	0	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	4.6
8-Jun-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
9-Jun-08	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0.4	1.5
10-Jun-08	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	0.5
11-Jun-08	0	0	0	0	A	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9
12-Jun-08	0	0	1	A	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0.5	1.7	
13-Jun-08	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.3	1.0	
14-Jun-08	0	1	1	0	0	A	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0.4	1.2	
15-Jun-08	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	
16-Jun-08	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	
17-Jun-08	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	
18-Jun-08	1	A	0	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0.1	0.7	
19-Jun-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
20-Jun-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
21-Jun-08	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	
22-Jun-08	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
23-Jun-08	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5	
24-Jun-08	A	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	A	0.4	0.7	
25-Jun-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.2	
26-Jun-08	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	
27-Jun-08	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	
28-Jun-08	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	1.0	
29-Jun-08	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	0.4	
30-Jun-08	0	0	0	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0.4	1.6	
Hourly Avg	0.2	0.2	0.4	0.2	0.3	N	0.3	0.3	0.4	0.5	0.3	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.2	0.2		
Hourly Max	0.7	1.2	4.6	1.5	3.0	1.0	0.5	0.7	1.3	5.3	1.3	3.3	2.2	0.8	0.7	0.7	0.4	0.8	1.5	3.6	2.8	4.0	0.9	1.0			

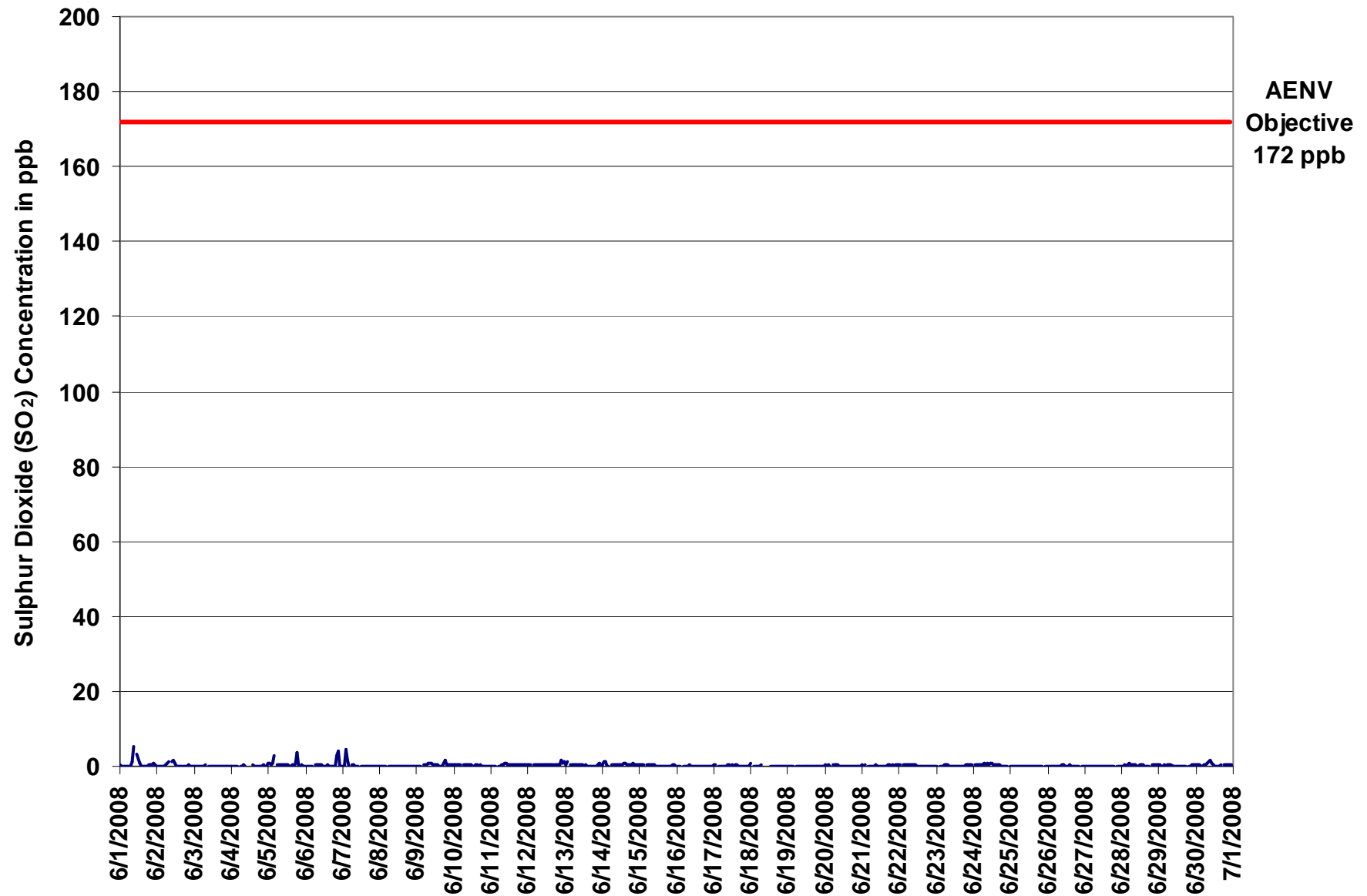


Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

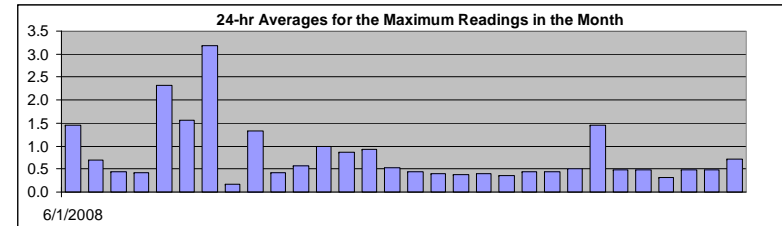
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	35.7	ppb	7-Jun	2:00 3:00
Maximum 24-hr Value:	3.2	ppb	7-Jun	



AIC Time:	31 hrs	Operational Time:	679 hrs						
Calibration Time:	9 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	10.8	1.6	0.5	0.5	0.3	0.2	0.1	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-Jun-08	1	0	0	1	1	0	0	0	6	7	A	4	3	2	0	0	0	0	0	1	1	1	3	1	1.5	7.0
2-Jun-08	0	0	0	0	0	0	1	1	1	A	2	3	2	1	1	1	0	1	0	1	1	1	1	0	0.7	2.5
3-Jun-08	1	1	1	0	1	1	1	1	A	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0.4	0.7
4-Jun-08	0	0	0	0	0	A	0	1	1	1	C	C	C	C	1	0	0	0	0	0	0	0	0	0	0.4	1.0
5-Jun-08	1	4	1	4	10	A	0	0	0	0	0	0	0	0	0	0	0	7	17	0	0	0	0	2.3	17.0	
6-Jun-08	0	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	14	13	0	0	1.6	14.5	
7-Jun-08	0	0	36	28	1	A	1	1	1	0	1	M	0	0	0	0	0	0	0	0	1	0	0	3.2	35.7	
8-Jun-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
9-Jun-08	0	0	0	0	0	A	1	0	0	1	1	1	1	0	0	0	2	4	12	0	1	0	2	1	1.3	12.0
10-Jun-08	0	0	0	0	0	A	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.4	1.4	
11-Jun-08	0	0	0	0	0	A	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0.6	1.4
12-Jun-08	0	0	1	A	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	4	2	2	1.0	4.0
13-Jun-08	2	4	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0.9	4.2
14-Jun-08	1	2	5	0	0	A	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	0	1	0.9	5.0
15-Jun-08	0	0	0	0	0	A	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.0
16-Jun-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
17-Jun-08	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.4	1.4
18-Jun-08	2	A	0	0	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0.4	1.6
19-Jun-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
20-Jun-08	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.4	0.6
21-Jun-08	1	1	1	A	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	0	1	0	0	1	0.4	1.3
22-Jun-08	1	1	A	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8
23-Jun-08	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.5	1.0
24-Jun-08	A	0	0	0	0	1	1	18	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	A	1.5	17.9
25-Jun-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	A	0	0.5	1.0
26-Jun-08	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0.5	1.0
27-Jun-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.4
28-Jun-08	0	0	0	0	1	2	1	1	1	1	0	0	0	1	0	0	0	0	0	A	0	0	0	0	0.5	1.8
29-Jun-08	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	A	0	0	1	1	1	0.5	1.4
30-Jun-08	0	0	0	0	0	0	0	1	2	3	2	1	0	0	0	0	0	A	1	0	0	0	1	1	0.7	2.6
Hourly Avg	0.6	0.7	1.9	1.6	0.8	N	0.5	1.1	0.8	0.9	0.6	0.7	0.6	0.5	0.4	0.4	0.4	0.5	1.0	1.0	1.0	1.0	0.8	0.6		
Hourly Max	2.0	4.2	35.7	28.0	10.4	1.8	1.4	17.9	5.5	7.0	2.0	4.5	3.5	2.0	1.0	1.0	1.6	3.7	12.0	17.0	14.5	12.6	3.5	2.5		

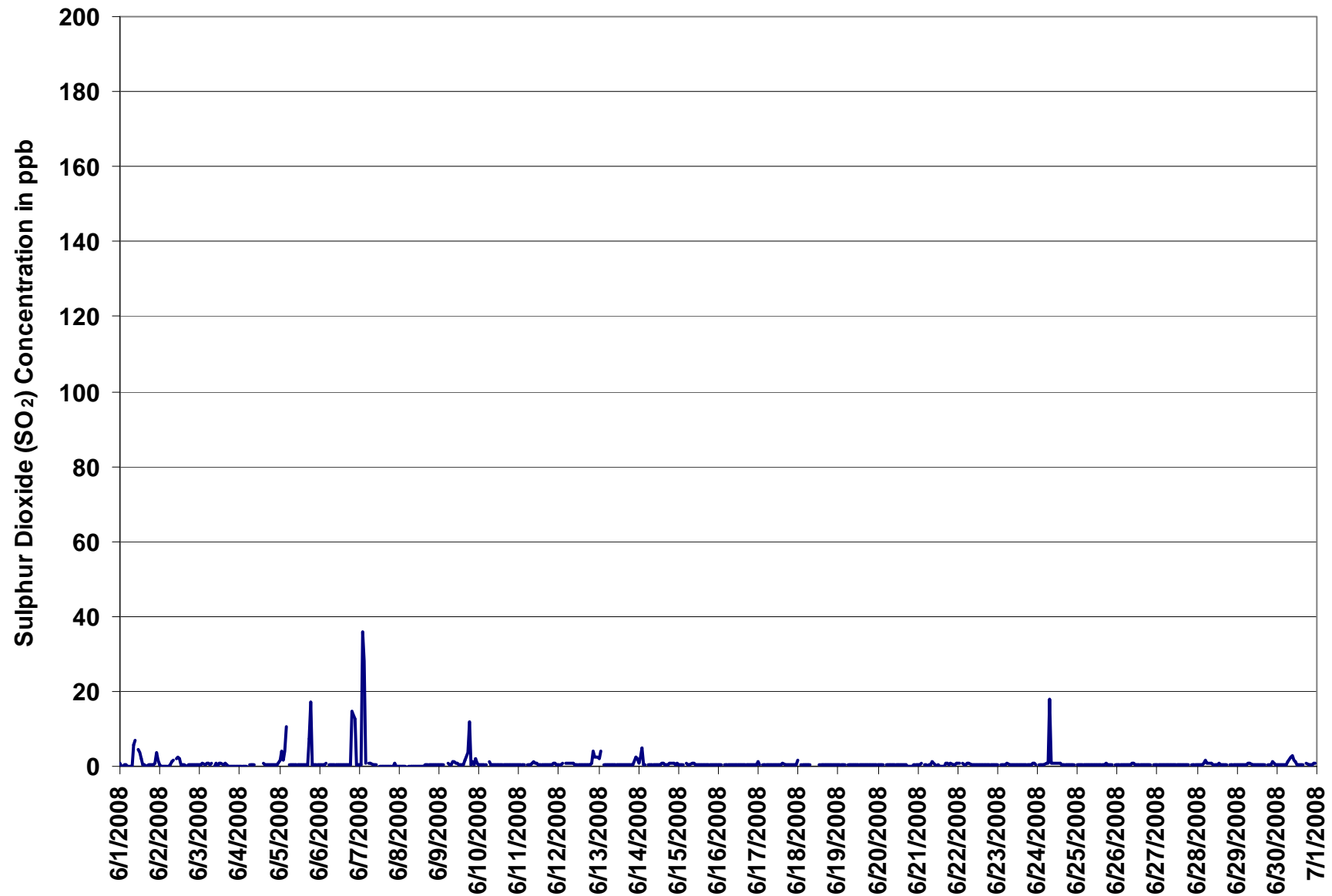
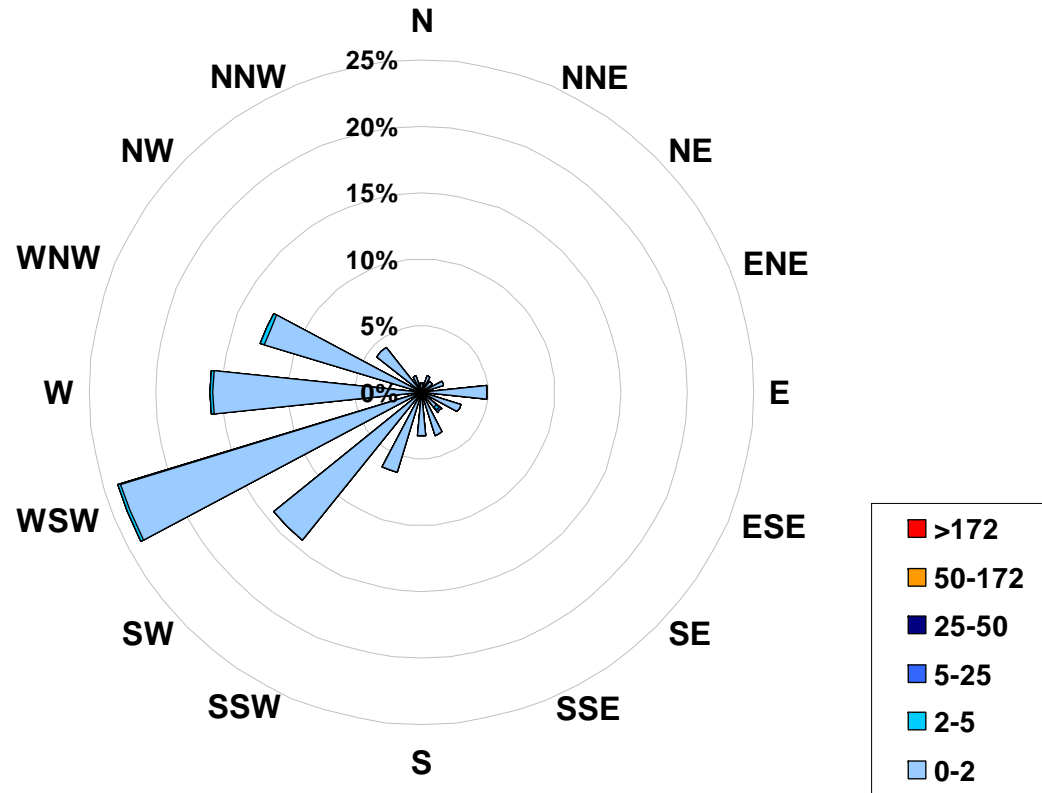


Figure 2. PASZA - Henry Pirker Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Henry Pirker Site for June 2008



Calms: 0%

Frequency Distribution of SO ₂ in ppb Range			Frequency (hrs)
0.0	<	2	671
2	to	5	7
5	to	25	1
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			679

PASZA - Henry Pirker Nitrogen Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

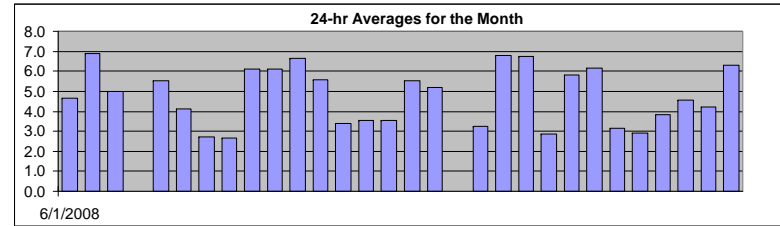
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: June 1, 2008 to July 1, 2008

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:	25.3	ppb	16-Jun	22:00	23:00
Maximum 24-hr Average:	6.9	ppb	2-Jun		



AIC Time:	32 hrs	Operational Time:	676 hrs						
Calibration Time:	11 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	20.8	13.5	5.9	3.3	1.9	1.2	0.8	4.8 ppb	3.3 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
1-Jun-08	3	2	2	4	3	3	3	2	2	4	A	4	3	2	2	1	1	1	1	2	9	24	22	5	4.7	24.0	
2-Jun-08	5	5	7	9	12	17	16	21	16	A	10	4	3	1	2	2	2	2	2	3	6	5	5	5	6.9	20.7	
3-Jun-08	4	6	12	12	10	13	9	5	A	3	2	2	2	2	2	2	2	3	3	2	3	4	5	5	5.0	13.4	
4-Jun-08	5	5	5	4	6	A	9	5	4	4	C	C	C	C	A	2	2	3	2	2	4	3	4	4	N	9.3	
5-Jun-08	8	5	9	5	10	A	15	12	6	4	3	2	1	2	2	2	2	4	5	6	7	8	7	5	5.5	14.6	
6-Jun-08	6	5	5	6	9	A	13	4	3	2	2	3	3	5	5	3	2	2	2	3	4	4	2	2	4.1	12.9	
7-Jun-08	2	3	6	5	5	A	8	3	2	2	1	M	1	1	1	1	2	3	2	2	2	3	3	2	2.7	8.1	
8-Jun-08	2	2	3	3	5	A	6	5	2	1	1	1	1	1	1	1	1	1	1	1	2	4	8	9	2.7	9.3	
9-Jun-08	14	10	13	13	A	18	14	9	6	5	3	2	1	1	2	1	2	3	3	2	5	6	5	6	6.1	18.1	
10-Jun-08	8	6	6	6	4	A	11	8	10	5	5	4	4	3	3	6	11	5	6	7	7	6	5	5	6.1	11.3	
11-Jun-08	5	7	8	7	A	9	10	7	6	6	7	5	4	3	4	2	2	2	2	2	5	16	21	13	6.6	21.4	
12-Jun-08	12	11	11	A	16	12	13	9	5	4	3	2	1	1	2	1	2	3	3	3	4	5	4	4	5.6	15.6	
13-Jun-08	3	3	A	4	3	7	7	6	3	3	2	2	3	2	3	3	1	2	2	2	2	3	5	6	5	3.4	7.0
14-Jun-08	12	6	5	5	7	A	7	3	2	2	2	2	1	1	1	1	1	2	2	2	2	5	2	6	3.5	11.5	
15-Jun-08	4	8	4	5	A	8	6	5	3	2	1	2	1	1	1	1	1	2	2	2	3	5	8	7	3.5	8.2	
16-Jun-08	3	2	3	A	8	9	9	4	3	2	2	2	1	2	2	2	2	2	2	2	4	15	25	21	5.5	25.3	
17-Jun-08	15	2	A	6	7	10	12	11	4	3	3	5	5	3	2	2	3	2	1	2	5	7	5	4	5.2	15.1	
18-Jun-08	5	A	7	8	10	15	16	C	C	C	C	C	C	1	1	1	1	3	4	4	3	3	3	2	N	16.5	
19-Jun-08	2	2	2	2	4	A	8	5	3	3	2	2	2	1	2	1	1	1	1	3	2	3	6	10	8	3.2	9.8
20-Jun-08	8	7	7	6	A	18	18	9	8	3	2	1	2	2	1	1	2	2	2	2	5	10	18	23	6.8	23.1	
21-Jun-08	22	18	16	A	17	12	7	5	4	5	3	2	2	1	2	3	4	5	5	4	5	4	4	4	6.8	21.9	
22-Jun-08	4	4	A	7	7	5	3	3	2	2	2	1	1	1	1	1	1	1	1	1	2	4	6	4	2.9	7.5	
23-Jun-08	4	A	7	6	8	17	18	8	3	2	3	2	2	2	2	1	1	1	1	1	2	4	12	17	12	5.8	18.3
24-Jun-08	A	16	12	13	14	13	10	8	4	8	4	2	1	2	3	2	2	3	3	2	4	5	3	A	6.2	15.9	
25-Jun-08	6	4	5	6	5	8	6	3	3	2	2	2	2	2	1	2	2	2	2	2	2	3	A	3	3.1	8.1	
26-Jun-08	2	3	3	1	2	4	5	5	5	4	2	1	2	2	3	3	1	2	2	3	3	A	4	4	2.9	5.4	
27-Jun-08	3	3	2	2	4	6	8	7	3	2	2	1	2	2	2	2	2	2	2	3	A	12	8	9	3.8	11.8	
28-Jun-08	7	5	8	9	10	11	8	8	4	3	2	1	2	1	2	1	1	1	2	A	6	5	3	5	4.6	10.7	
29-Jun-08	6	5	5	5	5	6	7	4	3	3	1	1	1	1	1	1	1	1	A	5	5	8	10	11	4.2	10.6	
30-Jun-08	9	12	12	7	12	14	11	6	4	3	2	1	1	1	1	1	1	1	A	4	4	5	9	11	14	6.3	14.0
Hourly Avg	6.4	6.0	6.8	6.1	7.8	N	9.8	6.5	4.4	3.3	2.8	2.3	2.0	1.8	1.8	1.8	2.1	2.2	2.4	2.6	4.2	7.0	8.0	7.2			
Hourly Max	21.9	18.3	16.2	13.5	16.6	18.1	18.3	20.7	16.3	7.7	9.7	5.4	5.3	5.1	4.5	6.0	11.3	5.2	6.0	7.4	8.9	24.0	25.3	23.1			

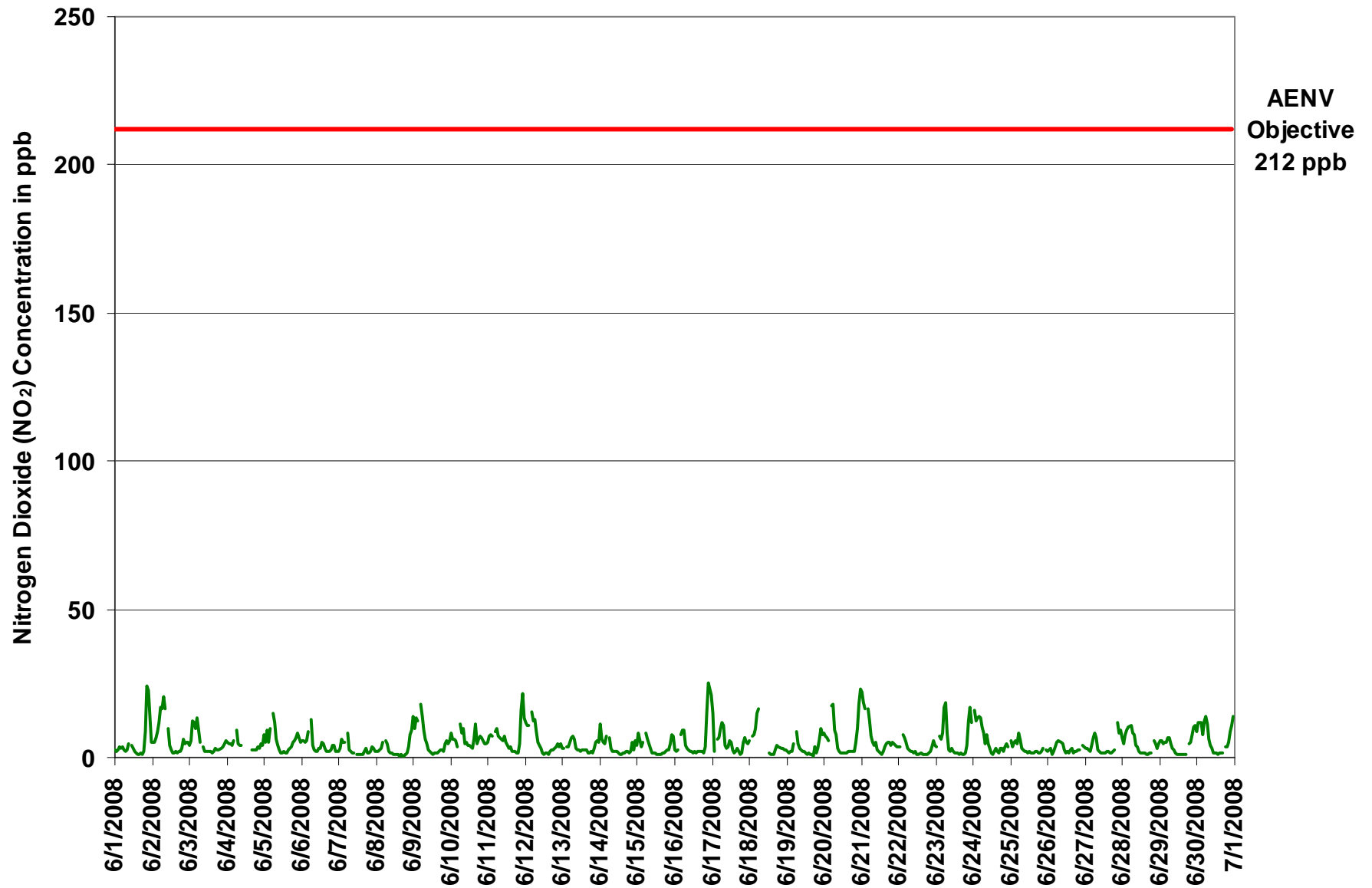


Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

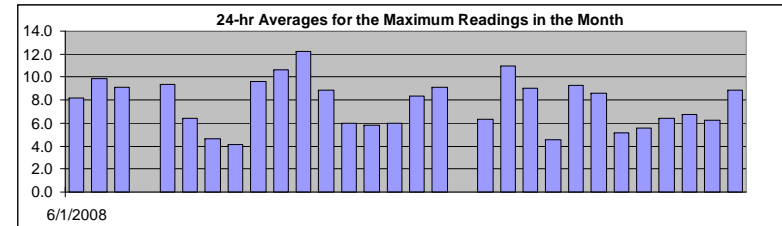
Nitrogen Dioxide (NO₂)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	50.9	ppb	11-Jun	10:00 11:00
Maximum 24-hr Value:	12.2	ppb	11-Jun	

AIC Time:	32 hrs	Operational Time:	676 hrs						
Calibration Time:	11 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	28.5	19.2	10.0	5.8	3.5	2.4	1.5	7.7 ppb	5.8 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-Jun-08	5	4	4	14	8	6	5	3	5	6	A	6	6	5	3	2	2	2	4	3	5	23	33	33	7	8.2	32.7
2-Jun-08	9	7	8	11	15	21	22	27	18	A	15	7	4	4	4	6	3	4	4	4	5	9	6	7	9	9.9	27.2
3-Jun-08	6	9	16	17	15	18	16	8	A	6	19	11	3	5	8	6	5	5	4	5	5	7	8	8	9.1	19.5	
4-Jun-08	7	6	7	5	7	A	13	7	6	7	C	C	C	C	C	A	3	4	6	4	6	5	7	7	N	13.2	
5-Jun-08	14	7	13	10	16	A	19	16	10	7	5	3	3	4	4	5	9	8	12	8	13	15	8	7	9.4	18.7	
6-Jun-08	8	7	6	8	12	A	15	12	4	3	5	6	6	11	7	6	4	3	3	4	6	6	3	3	6.4	14.9	
7-Jun-08	3	4	10	8	9	A	17	4	3	2	2	M	2	2	1	3	4	4	3	3	3	5	4	3	4.7	17.2	
8-Jun-08	2	3	4	4	7	A	8	6	4	2	2	2	2	2	2	2	2	2	2	2	4	6	11	15	4.1	14.6	
9-Jun-08	21	12	18	20	A	20	19	13	9	7	5	5	2	3	5	5	5	6	5	4	8	7	8	12	9.6	20.9	
10-Jun-08	15	7	8	8	8	A	16	15	18	7	14	7	6	6	7	14	17	12	11	15	12	9	7	6	10.6	18.2	
11-Jun-08	7	11	9	9	A	12	14	9	10	10	51	6	8	11	11	3	3	3	3	3	12	24	33	19	12.2	50.9	
12-Jun-08	15	14	15	A	19	16	16	11	24	6	4	4	3	4	2	2	4	6	6	5	6	7	7	7	8.9	23.6	
13-Jun-08	5	5	A	6	5	11	11	11	5	5	4	4	5	5	5	5	3	4	4	4	7	8	8	11	6.0	11.3	
14-Jun-08	21	8	7	6	11	A	11	5	3	4	3	5	3	2	2	3	3	4	3	4	4	13	4	7	5.8	20.9	
15-Jun-08	6	16	9	7	A	10	8	6	5	3	3	4	2	3	2	5	6	3	3	4	4	9	11	12	6.0	15.6	
16-Jun-08	4	3	4	A	11	11	12	7	5	4	4	3	3	4	4	4	4	4	6	3	7	30	28	28	8.4	30.2	
17-Jun-08	27	8	A	13	11	14	18	14	8	5	7	10	8	6	3	6	7	6	3	3	9	13	7	7	9.1	27.3	
18-Jun-08	7	A	10	11	13	20	24	C	C	C	C	C	C	C	4	4	3	3	7	10	7	4	5	4	4	N	24.0
19-Jun-08	3	3	3	3	10	A	11	7	5	5	5	4	4	3	4	3	2	3	30	4	5	9	14	10	6.4	30.4	
20-Jun-08	14	9	10	8	A	22	23	16	22	6	4	3	4	3	3	3	4	5	4	6	12	17	30	26	10.9	29.5	
21-Jun-08	23	21	19	A	19	15	11	7	6	8	4	4	2	3	4	7	7	9	8	6	9	7	5	5	9.0	23.1	
22-Jun-08	5	5	A	9	8	9	6	3	4	3	3	3	3	3	3	3	2	2	2	3	4	6	12	6	4.6	11.6	
23-Jun-08	6	A	13	10	12	20	21	18	5	4	13	4	4	3	3	3	3	3	3	4	7	21	19	16	9.3	21.5	
24-Jun-08	A	18	15	15	15	16	12	11	9	10	10	3	2	7	6	5	5	5	5	4	7	7	5	A	8.6	18.1	
25-Jun-08	7	6	7	10	9	11	9	6	4	4	4	4	4	3	3	3	3	3	3	4	3	5	A	5	5.2	10.6	
26-Jun-08	3	7	6	2	3	7	7	8	8	20	4	4	5	5	5	5	3	4	4	4	4	A	7	5	5.5	19.9	
27-Jun-08	5	4	3	3	11	13	12	10	4	4	3	3	4	3	4	4	3	4	4	5	A	16	15	13	6.4	15.6	
28-Jun-08	9	7	13	13	15	13	10	11	6	6	5	3	3	2	3	2	3	3	4	A	7	7	5	7	6.7	14.8	
29-Jun-08	7	7	9	10	9	10	9	6	4	4	2	2	2	3	2	2	2	2	A	7	8	11	13	16	6.2	15.6	
30-Jun-08	11	14	13	10	16	17	16	9	6	4	2	3	2	3	3	3	3	3	A	6	5	9	12	15	24	8.8	24.0
Hourly Avg	9.5	8.3	9.6	9.2	11.2	N	13.7	9.9	7.7	5.7	7.5	4.4	3.6	4.1	4.0	4.1	4.2	4.5	5.6	4.8	7.5	11.2	11.5	10.5			
Hourly Max	27.3	21.1	18.6	20.4	18.9	21.9	24.0	27.2	23.6	19.9	50.9	10.6	8.3	10.8	10.9	14.0	17.1	12.4	30.4	14.6	22.5	32.7	32.7	27.9			

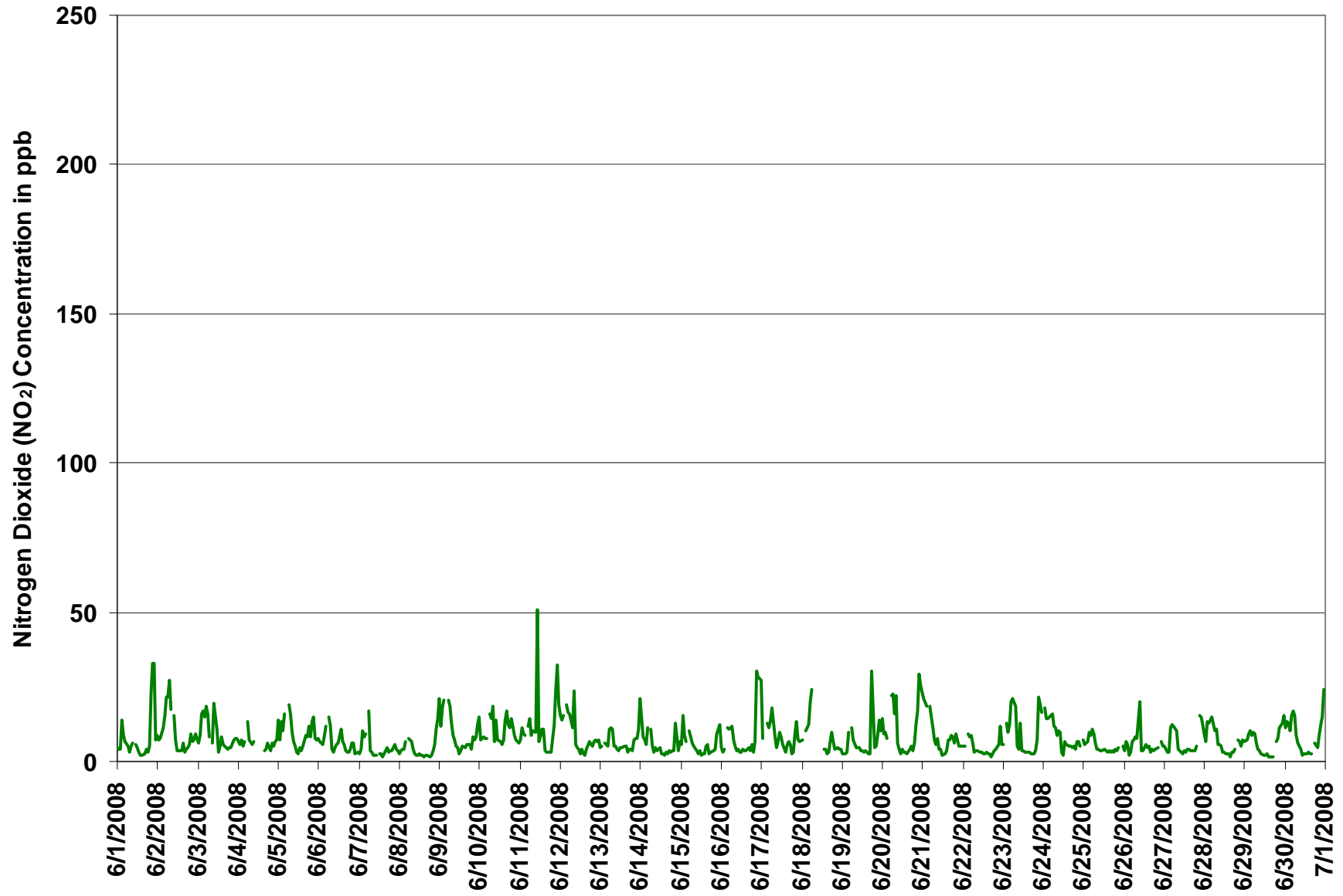
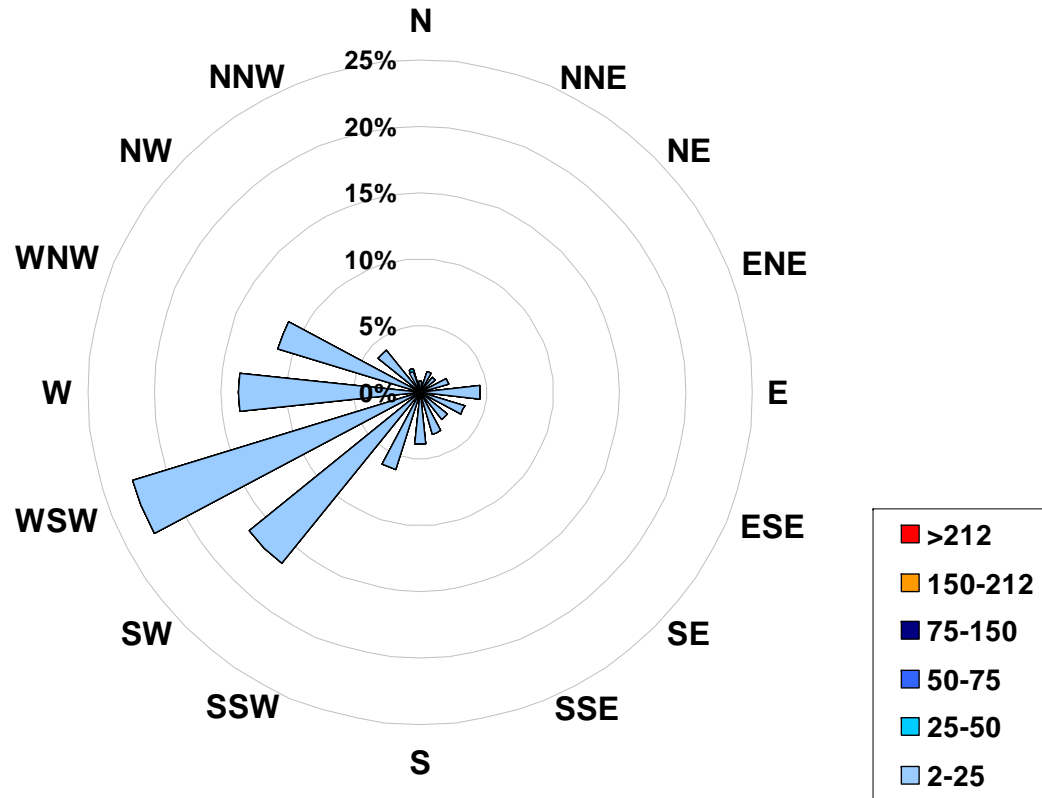


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Henry Pirker Site for June 2008



Calms: 0%

Frequency Distribution of NO ₂ in ppb			
Range		Frequency (hrs)	
2.0	< 25	676	
25	to 50	0	
50	to 75	0	
75	to 150	0	
150	to 212	0	
	> 212	0	
Total Non-Zero Values			676

PASZA - Henry Pirker Nitric Oxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

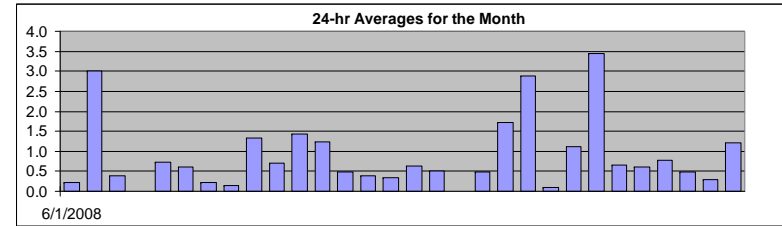
HOURLY AVERAGE TABLE

Nitric Oxide (NO)

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Maximum 1-hr Average:	21.7	ppb	2-Jun	7:00 8:00
Maximum 24-hr Average:	3.4	ppb	24-Jun	



AIC Time:	32 hrs	Operational Time:	676 hrs						
Calibration Time:	11 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	12.2	4.5	0.7	0.2	0.0	0.0	0.0	0.9 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	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	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-Jun-08	0	0	0	0	0	0	0	0	0	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.3
2-Jun-08	0	0	0	0	1	10	18	22	15	A	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.0	21.7
3-Jun-08	0	0	0	0	0	2	2	1	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.5	
4-Jun-08	0	0	0	0	0	A	3	1	1	1	C	C	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	N	2.9	
5-Jun-08	0	0	0	0	1	A	4	5	2	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.7	4.7	
6-Jun-08	0	0	0	0	1	A	5	1	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0.6	4.6	
7-Jun-08	0	0	0	0	0	A	2	1	0	0	0	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.3	
8-Jun-08	0	0	0	0	0	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.2	
9-Jun-08	0	0	0	0	A	8	8	6	3	2	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1.3	8.1	
10-Jun-08	0	0	0	0	0	A	1	2	2	1	2	1	1	1	1	1	1	1	2	1	0	0	0	0	0	0	0	0.7	2.0	
11-Jun-08	0	0	0	0	A	2	7	6	5	3	5	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1.4	6.6	
12-Jun-08	0	0	0	A	4	5	8	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	7.8	
13-Jun-08	0	0	A	0	0	0	1	2	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.5	1.8	
14-Jun-08	1	0	0	0	0	A	2	1	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.4	2.4	
15-Jun-08	0	0	0	0	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.5	
16-Jun-08	0	0	0	A	0	2	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	4.4	
17-Jun-08	0	0	A	0	0	1	3	3	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	2.7	
18-Jun-08	0	A	0	0	0	6	12	C	C	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	N	12.3	
19-Jun-08	0	0	0	0	0	A	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	2.8	
20-Jun-08	0	0	0	0	A	5	11	4	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	1.7	11.0	
21-Jun-08	12	12	18	A	6	5	3	2	2	2	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	2.9	18.4	
22-Jun-08	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
23-Jun-08	0	A	0	0	0	5	9	3	1	1	2	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1.1	8.7	
24-Jun-08	A	4	1	3	10	21	13	12	3	6	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	3.4	20.8	
25-Jun-08	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	A	0	0.7	2.2	
26-Jun-08	0	0	0	0	0	0	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	0	A	0	0	0	0.6	1.9	
27-Jun-08	0	0	0	0	0	1	4	4	1	1	1	1	1	1	1	1	1	0	0	0	0	0	A	0	0	0	0	0.8	4.1	
28-Jun-08	0	0	0	0	0	1	2	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.5	3.0	
29-Jun-08	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.3	1.3	
30-Jun-08	0	0	1	0	3	10	6	2	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	2	1.2	10.3		
Hourly Avg	0.5	0.6	0.8	0.2	1.1	N	4.5	3.3	1.9	1.1	1.0	0.5	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.2	0.4					
Hourly Max	12.1	11.7	18.4	2.6	9.6	20.8	18.3	21.7	14.6	5.7	4.8	1.6	1.1	1.2	1.5	1.2	1.7	1.1	2.8	0.5	0.5	1.2	4.2	9.2						

PASZA - Henry Pirker Oxides of Nitrogen Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

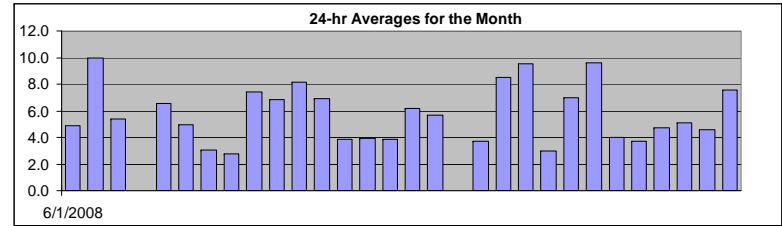
HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Maximum 1-hr Average:	42.4	ppb	2-Jun	7:00 8:00
Maximum 24-hr Average:	10.0	ppb	2-Jun	



AIC Time:	32 hrs	Operational Time:	676 hrs						
Calibration Time:	11 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	30.2	17.0	6.6	3.8	2.2	1.4	1.0	5.7 ppb	3.8 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	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	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-Jun-08	3	2	2	4	3	3	3	2	3	6	A	5	3	2	2	1	1	1	1	1	2	9	25	23	5	4.9	25.3
2-Jun-08	5	5	7	9	13	26	35	42	31	A	12	5	3	2	2	2	2	2	2	2	3	6	5	5	5	10.0	42.4
3-Jun-08	4	6	12	12	10	15	12	7	A	4	3	2	2	2	2	2	2	2	4	3	2	3	3	4	5	5.4	15.0
4-Jun-08	5	4	4	4	6	A	12	6	5	5	C	C	C	C	C	A	2	2	2	2	3	3	4	4	4	N	12.2
5-Jun-08	8	5	10	5	10	A	19	17	9	5	4	2	2	3	2	2	3	5	6	6	7	9	7	5	6.5	18.9	
6-Jun-08	6	6	5	6	10	A	18	5	3	3	3	4	4	6	6	4	3	2	2	3	5	5	2	2	5.0	17.8	
7-Jun-08	2	3	7	5	6	A	11	3	2	2	2	M	2	1	1	1	2	3	2	2	2	3	3	2	3.1	10.6	
8-Jun-08	2	2	3	3	5	A	6	6	3	2	1	1	1	1	1	1	1	1	1	1	1	2	4	8	9	2.8	9.3
9-Jun-08	14	9	13	13	A	26	22	15	9	7	4	2	1	2	2	1	3	3	3	2	5	6	5	6	7.4	26.1	
10-Jun-08	8	6	7	6	4	A	13	10	12	5	7	5	5	4	4	7	13	6	6	8	7	6	5	5	6.8	13.1	
11-Jun-08	5	7	8	7	A	11	16	13	11	9	12	7	5	4	5	3	2	2	2	2	5	16	22	13	8.1	21.8	
12-Jun-08	12	11	11	A	19	17	21	15	8	6	4	2	1	2	2	1	2	3	3	3	4	5	4	4	6.9	20.9	
13-Jun-08	3	3	A	3	3	7	8	8	4	4	3	3	3	3	3	3	2	2	2	2	3	5	5	5	3.9	7.7	
14-Jun-08	12	6	5	5	8	A	9	5	2	3	2	3	2	1	2	2	2	3	2	2	2	5	2	5	3.9	12.3	
15-Jun-08	4	9	4	5	A	9	7	6	4	2	2	2	1	1	1	1	1	1	2	2	3	3	5	8	7	3.9	9.3
16-Jun-08	3	2	3	A	8	12	14	6	4	3	2	2	1	3	2	2	3	2	3	2	4	16	26	22	6.2	25.7	
17-Jun-08	15	2	A	6	7	10	14	13	5	3	C	4	6	6	3	2	2	3	2	1	2	6	7	5	4	5.7	15.4
18-Jun-08	5	A	7	8	10	21	29	C	C	C	C	C	C	2	1	1	1	3	4	4	3	3	3	2	N	28.8	
19-Jun-08	2	2	2	2	5	A	11	6	4	4	3	2	2	1	2	1	1	1	1	6	2	3	6	10	8	3.7	10.7
20-Jun-08	8	7	7	5	A	22	29	13	12	4	2	2	2	2	1	1	2	2	2	2	5	10	22	32	8.5	32.2	
21-Jun-08	34	30	35	A	22	17	10	7	6	7	3	2	2	1	2	4	5	6	6	5	5	5	4	4	9.6	34.5	
22-Jun-08	4	4	A	7	7	5	3	3	2	2	2	2	2	2	2	2	1	1	1	1	2	2	4	6	4	3.0	7.5
23-Jun-08	4	A	7	6	8	22	27	11	4	3	5	2	3	2	2	2	2	2	1	1	2	4	13	17	12	6.9	27.1
24-Jun-08	A	20	13	16	24	34	23	20	7	13	7	2	1	2	4	3	2	4	4	2	4	5	3	A	9.6	34.1	
25-Jun-08	6	4	5	6	5	10	8	5	4	3	3	3	3	3	2	3	3	3	2	2	3	4	A	3	4.0	9.7	
26-Jun-08	2	3	3	1	2	4	6	7	7	7	4	2	3	3	4	4	2	3	3	3	3	A	4	4	3.7	6.9	
27-Jun-08	3	3	2	2	5	8	13	11	4	4	3	2	3	2	3	2	3	2	2	3	A	12	8	9	4.8	12.6	
28-Jun-08	7	5	8	9	11	12	10	11	5	4	3	2	2	2	2	1	1	1	2	A	6	5	3	5	5.1	12.2	
29-Jun-08	6	5	5	5	5	7	8	6	4	3	2	1	1	1	1	1	1	1	1	A	5	6	8	11	11	4.6	10.9
30-Jun-08	9	12	12	8	16	24	17	8	5	3	2	2	2	1	2	1	2	A	4	4	5	9	11	16	7.6	24.0	
Hourly Avg	6.9	6.6	7.6	6.3	8.9	N	14.4	9.8	6.4	4.5	3.8	2.8	2.5	2.2	2.3	2.2	2.5	2.5	2.8	2.8	4.3	7.2	8.2	7.6			
Hourly Max	33.9	29.9	34.5	16.1	23.5	34.1	34.7	42.4	31.1	13.4	12.2	6.7	6.4	6.4	5.7	6.7	13.1	6.2	6.4	7.5	9.1	25.3	25.7	32.2			

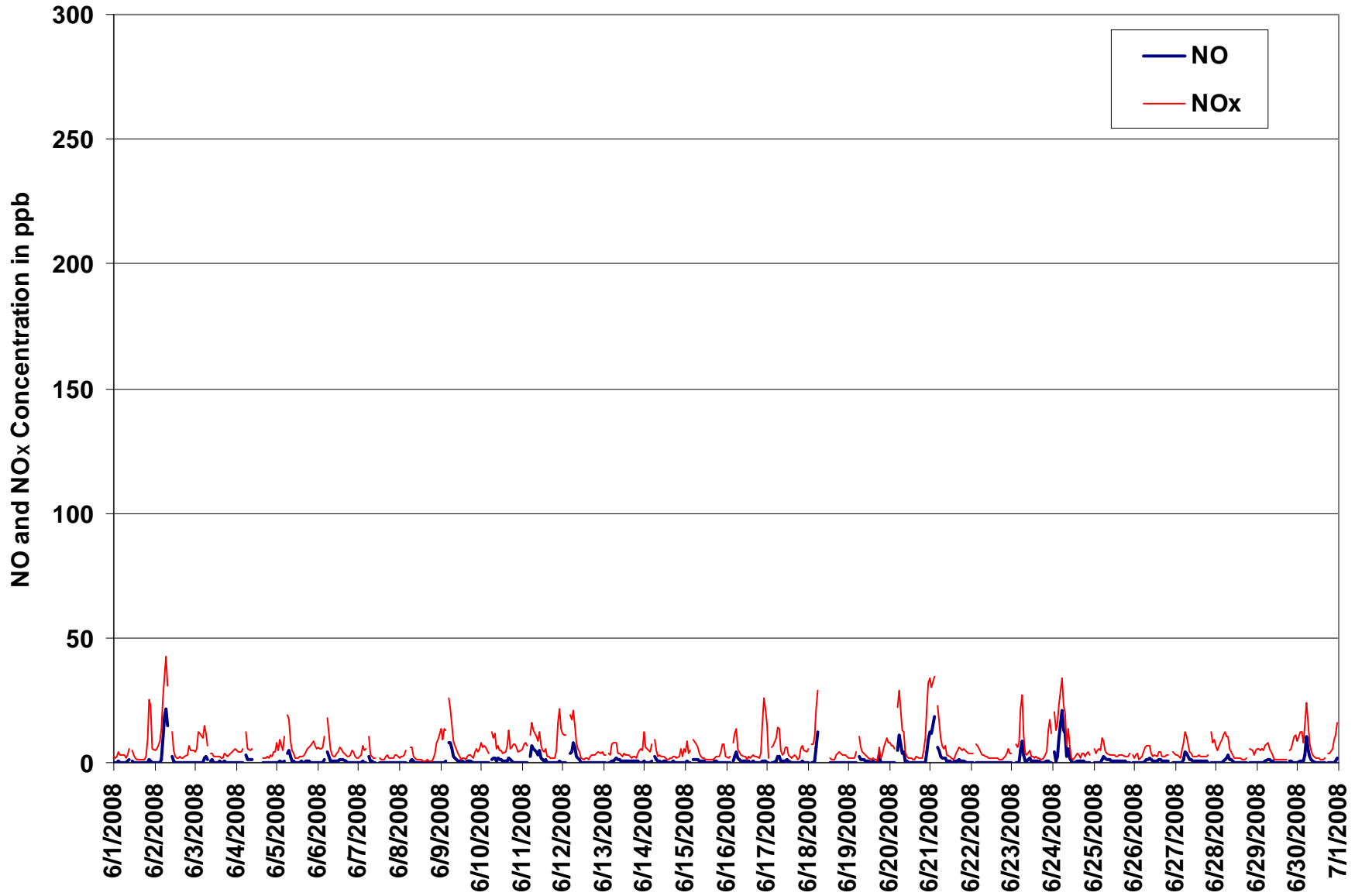


Figure 5. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

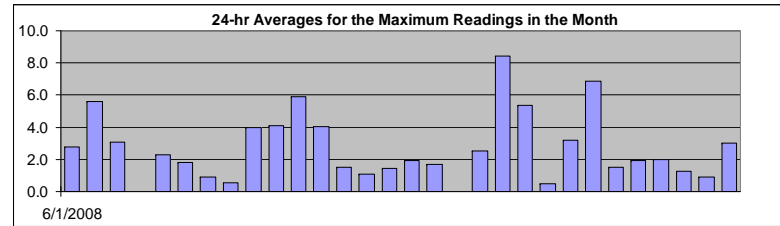
Nitric Oxide (NO)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	57.9	ppb	20-Jun	8:00 9:00
Maximum 24-hr Value:	8.4	ppb	20-Jun	

AIC Time:	32 hrs	Operational Time:	676 hrs						
Calibration Time:	11 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	28.9	11.7	2.4	1.0	0.5	0.0	0.0	2.8 ppb	1.0 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Jun-08	1	0	0	12	9	1	1	1	2	2	A	1	1	1	0	1	1	2	0	0	1	23	6	1	2.7	23.2	
2-Jun-08	6	0	0	1	6	18	27	39	18	A	5	2	1	1	1	2	1	1	1	0	1	0	0	0	5.6	39.4	
3-Jun-08	0	1	3	0	1	3	7	3	A	4	30	6	1	2	4	2	1	1	1	0	0	0	0	0	3.1	30.3	
4-Jun-08	0	0	0	0	0	A	5	2	2	2	C	C	C	C	C	A	0	0	5	0	0	0	0	0	N	5.1	
5-Jun-08	0	1	1	1	7	A	9	7	5	2	2	1	1	1	1	2	4	2	3	1	1	1	0	0	2.3	8.5	
6-Jun-08	0	0	0	1	4	A	7	5	2	1	2	2	2	5	2	2	2	1	1	1	1	1	0	0	1.8	7.5	
7-Jun-08	0	0	2	1	1	A	6	2	1	1	1	M	1	1	1	0	1	1	0	0	0	0	0	0	0.9	6.3	
8-Jun-08	0	0	0	0	1	A	2	2	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	2	0.6	2.0	
9-Jun-08	1	1	1	6	A	16	15	10	5	3	2	7	1	11	3	1	3	3	1	1	1	0	0	0	4.0	15.5	
10-Jun-08	0	0	6	1	4	A	6	8	10	1	16	4	4	1	5	5	5	13	3	1	1	1	0	1	4.1	16.0	
11-Jun-08	0	1	1	0	A	4	10	9	15	17	39	3	6	9	14	1	1	1	1	0	1	1	5	0	5.9	39.3	
12-Jun-08	0	1	0	A	8	9	11	25	28	3	2	1	1	2	1	0	0	1	1	1	0	0	0	0	4.0	28.4	
13-Jun-08	0	0	A	0	0	1	1	5	2	6	2	2	2	2	2	1	1	2	1	2	1	1	0	0	1.5	6.3	
14-Jun-08	4	1	0	0	1	A	4	3	1	2	1	3	1	1	1	1	1	1	1	1	0	0	0	0	1.1	4.0	
15-Jun-08	0	3	0	0	A	3	2	2	2	2	2	2	1	1	1	4	3	1	2	1	1	0	1	1	1.4	3.8	
16-Jun-08	0	0	0	A	2	5	6	4	3	1	1	1	1	1	1	1	1	1	1	0	0	0	6	2	7	1.9	6.6
17-Jun-08	5	0	A	0	0	2	5	4	2	1	3	2	2	1	1	1	1	1	1	0	1	7	0	0	1.7	6.6	
18-Jun-08	0	A	0	0	3	14	23	C	C	C	C	C	C	1	1	1	1	1	1	1	1	1	0	0	N	23.1	
19-Jun-08	0	0	0	0	1	A	5	3	2	2	2	1	1	1	1	0	0	0	34	1	0	0	0	0	2.5	34.4	
20-Jun-08	3	0	0	0	A	10	20	10	58	3	2	1	1	1	1	0	0	0	0	1	1	0	53	28	8.4	57.9	
21-Jun-08	20	22	24	A	10	7	5	3	2	3	1	3	1	1	1	3	4	3	2	1	4	1	0	0	5.4	24.2	
22-Jun-08	0	1	A	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0.5	1.0	
23-Jun-08	0	A	0	0	1	10	12	9	3	2	18	2	2	2	1	2	2	1	1	1	1	2	1	3	3.2	17.6	
24-Jun-08	A	10	2	7	23	33	18	26	7	10	6	1	1	1	2	1	2	1	1	1	0	1	0	A	6.9	32.6	
25-Jun-08	0	0	0	1	1	3	4	3	2	2	2	2	2	2	2	2	2	1	1	1	0	0	A	0	1.5	3.5	
26-Jun-08	0	0	0	0	0	1	1	2	2	16	2	2	2	3	2	3	2	2	1	1	1	A	1	1	1.9	15.6	
27-Jun-08	0	0	0	0	2	8	8	7	3	2	2	2	2	1	2	1	1	1	1	1	A	0	0	3	2.0	8.3	
28-Jun-08	0	0	1	1	2	2	3	4	3	3	3	1	1	1	1	0	1	1	1	A	0	0	0	0	1.2	4.0	
29-Jun-08	0	0	0	0	2	2	2	2	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.9	2.4	
30-Jun-08	1	1	2	1	8	17	11	5	2	1	0	1	1	1	1	1	1	A	2	1	1	1	5	7	3.0	17.1	
Hourly Avg	1.4	1.5	1.7	1.2	3.7	N	7.9	7.0	6.6	3.3	5.4	2.0	1.4	2.0	1.8	1.4	1.4	1.6	2.3	0.7	0.6	1.7	2.6	1.8			
Hourly Max	20.0	21.9	24.2	12.3	22.9	32.6	26.9	39.4	57.9	17.3	39.3	6.8	5.7	11.3	13.7	5.3	5.2	12.7	34.4	1.9	4.0	23.2	52.9	27.9			

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

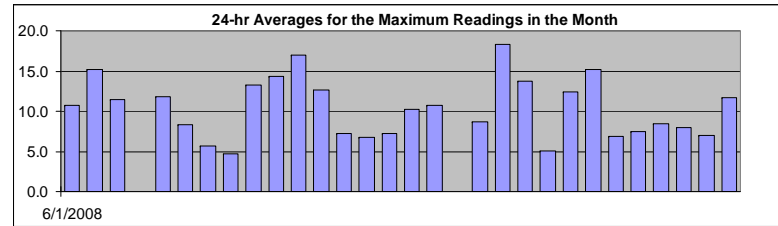
Oxides of Nitrogen (NO_x)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	80.2	ppb	20-Jun	22:00 23:00
Maximum 24-hr Value:	18.4	ppb	20-Jun	

AIC Time:	32 hrs	Operational Time:	676 hrs						
Calibration Time:	11 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	52.3	30.4	12.1	7.0	4.5	2.8	2.0	10.3 ppb	7.0 ppb



Status Flag Characters

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

Day Mountain Standard Time

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-Jun-08	5	4	5	26	18	7	6	3	7	8	A	7	5	4	3	3	3	6	3	6	23	53	39	7	10.8	53.3	
2-Jun-08	15	8	8	12	22	38	46	65	35	A	20	9	4	4	5	7	3	4	5	5	10	7	7	9	15.2	65.4	
3-Jun-08	6	10	18	17	15	20	23	11	A	8	41	17	4	8	11	8	6	6	5	5	5	7	8	8	11.5	41.5	
4-Jun-08	7	6	7	5	7	A	19	9	7	9	C	C	C	C	C	A	3	3	10	3	6	5	6	7	N	18.6	
5-Jun-08	14	7	15	11	21	A	28	23	15	9	7	5	4	6	5	8	13	11	15	9	14	16	8	8	11.8	27.6	
6-Jun-08	8	8	7	9	16	A	22	17	6	4	7	7	8	16	9	8	5	4	4	5	7	6	3	4	8.3	22.5	
7-Jun-08	3	4	13	9	11	A	23	5	4	3	3	M	3	4	2	3	5	5	4	4	4	6	4	3	5.6	23.3	
8-Jun-08	2	4	4	4	8	A	8	8	5	3	3	3	3	2	3	2	3	2	2	2	3	6	11	16	4.6	16.4	
9-Jun-08	22	12	18	27	A	36	32	22	13	10	7	11	3	13	8	6	8	8	7	4	9	7	8	12	13.3	35.7	
10-Jun-08	15	7	15	8	12	A	22	21	28	8	27	9	9	7	12	18	22	25	14	15	13	9	7	7	14.3	27.7	
11-Jun-08	8	12	9	9	A	15	23	17	20	26	77	9	14	21	22	4	4	4	3	13	25	36	19	19	17.0	77.4	
12-Jun-08	16	15	16	A	24	25	26	32	52	9	6	6	3	6	3	3	4	7	6	6	7	7	7	7	12.6	52.3	
13-Jun-08	5	5	A	6	5	12	12	15	7	10	6	5	6	7	6	6	3	6	4	5	8	8	8	11	7.2	15.3	
14-Jun-08	25	9	7	6	12	A	13	8	4	5	4	7	3	3	3	4	3	5	4	4	4	13	4	7	6.8	25.1	
15-Jun-08	6	18	9	7	A	12	10	7	7	5	4	5	3	3	3	9	8	3	5	4	4	10	11	13	7.2	18.3	
16-Jun-08	4	3	4	A	13	16	18	11	7	5	5	4	4	5	5	5	5	6	3	7	36	30	35	35	10.2	36.1	
17-Jun-08	32	8	A	13	11	16	23	18	10	5	8	11	10	7	4	7	8	6	3	3	11	20	7	7	10.7	31.8	
18-Jun-08	7	A	10	11	14	34	47	C	C	C	C	C	C	C	5	5	3	4	7	10	7	4	5	4	4	N	46.7
19-Jun-08	3	2	3	3	10	A	14	10	7	7	6	5	5	4	5	4	3	3	64	6	5	9	14	10	8.7	63.9	
20-Jun-08	17	9	10	7	A	30	43	26	65	8	5	3	5	4	3	3	4	5	4	7	13	17	80	52	18.4	80.2	
21-Jun-08	43	40	41	A	27	21	15	9	8	10	5	7	3	3	4	10	10	12	9	7	13	8	5	5	13.7	42.9	
22-Jun-08	5	6	A	9	9	9	6	4	4	4	4	4	3	3	4	4	3	2	3	4	4	6	12	6	5.0	11.6	
23-Jun-08	6	A	13	10	13	29	33	28	7	6	31	5	5	4	4	5	5	3	4	5	8	23	20	20	12.4	33.0	
24-Jun-08	A	27	17	22	38	47	29	36	15	20	15	4	3	7	7	6	7	6	6	4	7	7	5	A	15.2	47.2	
25-Jun-08	7	6	7	10	10	13	13	10	7	6	6	6	6	6	5	6	5	5	5	4	5	A	A	5	6.8	13.4	
26-Jun-08	4	7	6	2	3	8	8	10	10	32	6	6	7	8	7	8	5	6	5	5	6	A	7	6	7.5	31.9	
27-Jun-08	5	4	3	3	13	21	20	17	7	6	5	4	6	4	6	5	5	5	5	6	A	16	16	14	8.4	21.0	
28-Jun-08	9	7	14	14	17	15	13	15	8	9	9	4	4	3	3	2	4	4	5	A	7	6	5	7	7.9	16.6	
29-Jun-08	7	7	9	10	11	11	11	8	5	5	3	3	3	3	2	2	2	2	A	7	8	13	14	17	7.0	16.5	
30-Jun-08	11	14	14	12	23	34	26	13	8	5	2	3	3	3	4	5	3	3	A	8	6	9	13	18	31	11.6	33.8
Hourly Avg	10.8	9.5	11.1	10.4	14.6	N	21.0	16.5	13.5	8.7	12.0	6.2	5.0	6.0	5.6	5.5	5.6	5.9	7.9	5.4	8.0	12.7	13.8	12.2			
Hourly Max	42.9	39.7	41.0	26.5	38.0	47.2	46.7	65.4	64.8	31.9	77.4	16.8	13.9	20.5	21.9	18.5	22.1	24.5	63.9	14.9	23.1	53.3	80.2	52.3			

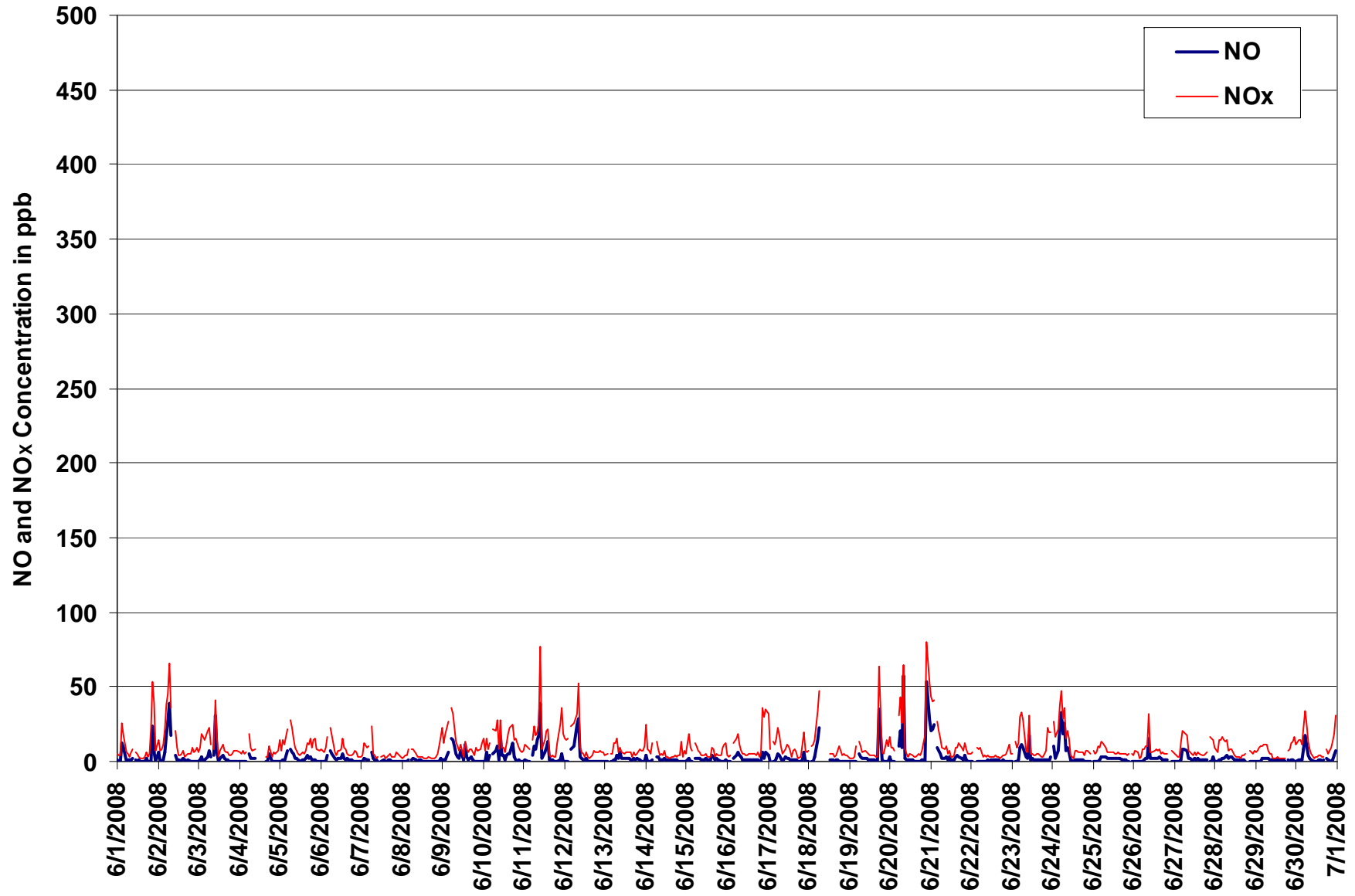


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Henry Pirker Ozone Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

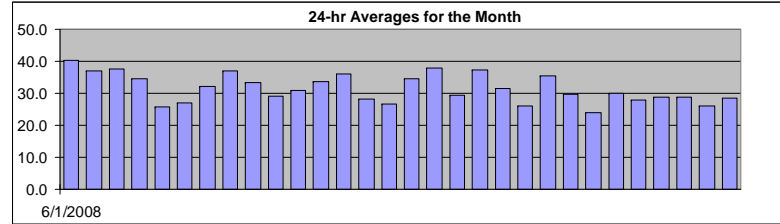
Ozone (O₃)

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	57.4 ppb	2-Jun	12:00 13:00
Maximum 24-hr Average:	40.3 ppb	1-Jun	

AIC Time:	32 hrs	Operational Time:	681 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	54.1	47.4	39.4	32.0	24.5	12.2	5.5	31.5 ppb	32.0 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-Jun-08	37	38	37	31	34	40	38	37	36	38	A	44	47	49	50	50	51	52	52	51	42	23	18	30	40.3	52.4
2-Jun-08	28	26	22	15	9	6	8	13	16	A	41	55	57	53	53	54	56	56	56	54	46	45	41	40	37.0	57.4
3-Jun-08	39	33	18	16	24	22	23	30	A	38	41	45	50	51	51	54	52	45	45	43	41	38	34	29	37.7	54.4
4-Jun-08	29	27	25	22	21	A	15	29	34	36	35	39	44	46	47	47	46	43	38	37	35	37	32	30	34.5	47.4
5-Jun-08	24	25	20	22	16	A	14	15	24	32	33	41	C	C	A	42	44	35	30	29	25	17	14	14	25.8	44.0
6-Jun-08	16	13	13	13	9	A	11	28	32	36	38	36	35	30	30	31	32	33	34	36	31	26	27	27	26.8	38.1
7-Jun-08	27	23	18	20	19	A	18	31	34	37	39	M	40	42	43	43	39	34	35	34	32	30	32	33	32.0	43.0
8-Jun-08	34	31	30	28	25	A	27	29	37	40	42	43	43	44	45	46	46	45	45	44	41	35	29	24	37.0	46.3
9-Jun-08	19	22	15	14	A	10	16	22	30	37	47	42	44	46	46	46	46	45	45	42	37	31	33	28	33.2	46.5
10-Jun-08	22	22	21	24	32	A	27	28	30	34	35	35	32	31	31	31	30	38	34	36	27	23	23	21	29.1	38.1
11-Jun-08	19	15	15	14	A	12	11	16	21	31	32	39	44	46	43	44	45	48	48	48	43	30	22	25	30.9	48.2
12-Jun-08	24	19	17	A	6	11	13	18	27	30	36	44	48	49	50	48	46	46	42	41	41	42	39	35	33.6	50.1
13-Jun-08	35	35	A	40	39	35	33	33	37	39	41	40	40	41	43	39	39	36	34	33	26	26	25	25	36.0	42.6
14-Jun-08	17	21	21	22	19	A	18	22	27	29	29	30	32	33	34	34	32	32	32	36	36	31	38	25	28.2	37.8
15-Jun-08	24	16	15	13	A	11	12	13	22	29	32	33	36	37	37	38	38	37	36	34	33	28	21	19	26.7	37.8
16-Jun-08	26	26	23	A	18	16	18	28	35	41	44	45	45	46	46	47	48	48	49	50	43	27	12	10	34.5	50.0
17-Jun-08	20	47	A	39	34	29	26	30	38	42	40	35	36	40	45	46	45	45	48	47	39	37	33	29	37.8	47.8
18-Jun-08	26	A	22	19	14	10	11	21	26	C	C	C	43	43	44	45	43	37	34	33	29	28	31	29.4	44.5	
19-Jun-08	30	32	32	32	29	A	27	31	33	36	38	43	44	47	47	46	46	45	43	44	42	34	26	29	37.3	47.0
20-Jun-08	24	24	26	26	A	10	13	24	29	36	40	42	44	45	44	45	45	43	43	39	33	26	14	6	31.4	45.3
21-Jun-08	5	5	5	A	6	10	17	21	23	24	28	32	36	37	37	38	37	35	34	34	31	30	33	39	25.9	38.5
22-Jun-08	41	42	A	24	23	27	27	28	30	29	32	32	40	44	42	43	44	45	44	41	38	34	36	35	35.5	44.7
23-Jun-08	34	A	30	32	25	14	18	30	38	40	40	39	37	35	36	36	35	34	33	31	26	16	10	11	29.6	40.1
24-Jun-08	A	6	6	4	3	5	8	12	22	22	30	34	38	38	36	37	36	32	31	35	33	29	30	A	23.9	38.2
25-Jun-08	26	27	24	23	26	21	23	26	28	31	33	35	35	36	35	34	33	33	33	33	32	29	A	34	30.1	36.0
26-Jun-08	35	32	29	33	30	28	29	27	28	27	29	29	29	30	26	26	27	26	25	24	24	A	23	22	27.8	35.4
27-Jun-08	22	22	24	26	23	20	19	21	26	27	29	30	30	35	40	40	38	38	39	38	A	25	29	25	28.9	40.1
28-Jun-08	25	27	22	19	17	16	17	18	24	29	31	31	31	31	32	33	34	36	42	A	40	40	38	31	28.9	42.0
29-Jun-08	28	25	25	22	22	17	19	25	29	35	34	33	33	32	32	32	29	28	A	25	22	19	15	15	25.9	34.5
30-Jun-08	14	8	8	12	7	5	13	20	30	38	41	42	39	40	42	45	47	A	47	43	38	32	27	22	28.6	46.7
Hourly Avg	25.9	24.5	20.8	22.5	20.3	N	19.0	24.2	29.2	33.7	35.9	38.2	39.5	40.5	40.9	41.5	41.1	40.0	39.9	38.6	35.2	30.1	27.0	25.7		
Hourly Max	40.8	46.5	37.2	40.0	39.0	40.1	38.4	37.4	38.2	42.4	44.1	55.2	57.4	53.2	52.6	54.4	56.2	56.3	55.6	54.0	46.3	44.9	40.7	40.4		

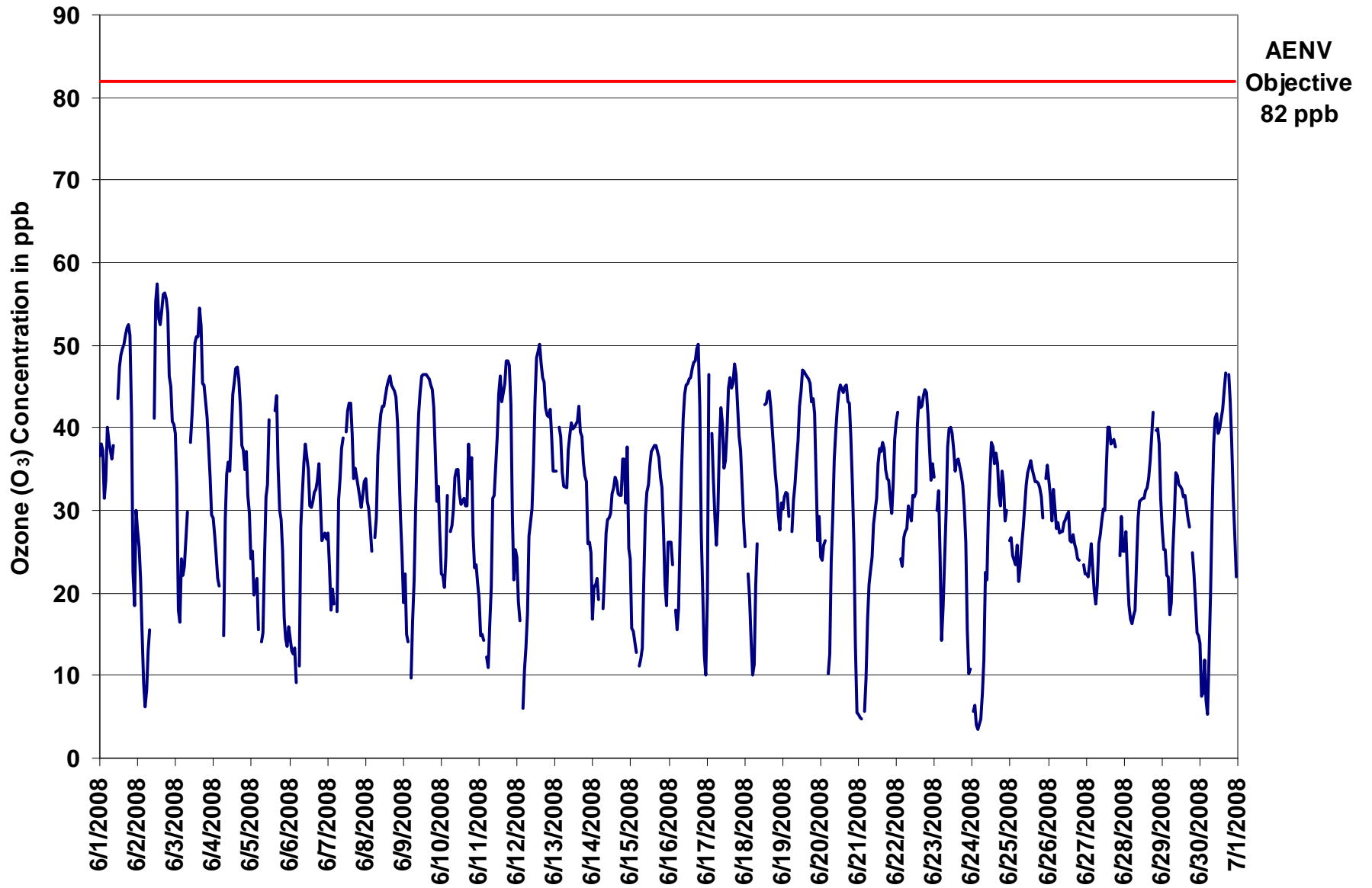


Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

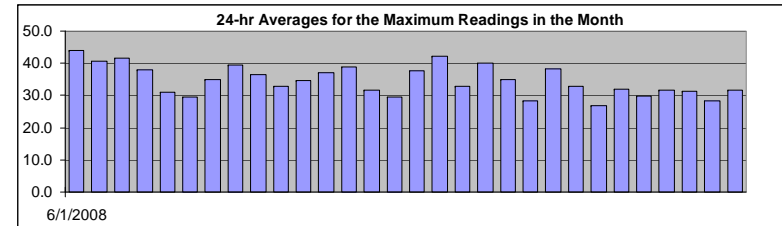
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	60.6	ppb	2-Jun	11:00 12:00
Maximum 24-hr Value:	44.0	ppb	1-Jun	



AIC Time:	32 hrs	Operational Time:	681 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	56.5	49.8	42.2	35.2	28.0	15.5	7.1	34.6 ppb	35.2 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-Jun-08	40	40	40	35	39	43	41	39	38	40	A	46	50	51	52	52	53	54	54	54	54	35	32	32	44.0	54.2
2-Jun-08	29	28	24	20	15	7	15	23	21	A	51	61	60	55	55	57	58	58	57	56	51	48	42	42	40.6	60.6
3-Jun-08	41	38	30	20	33	28	28	35	A	40	44	50	53	53	54	56	58	48	47	46	44	40	37	33	41.5	57.5
4-Jun-08	32	28	26	24	24	A	28	34	42	42	38	42	48	48	49	50	48	46	40	40	38	38	35	32	37.9	49.7
5-Jun-08	29	27	24	25	19	A	18	18	32	35	39	43	C	C	A	45	46	44	35	34	32	27	27	21	31.0	45.6
6-Jun-08	20	15	13	16	12	A	16	31	36	38	40	39	39	34	33	34	34	36	35	38	36	28	29	28	29.5	39.6
7-Jun-08	29	25	22	22	23	A	31	34	37	39	40	M	41	43	44	44	44	37	37	35	34	36	36	35	34.9	44.2
8-Jun-08	35	33	32	30	27	A	29	33	40	42	45	44	44	45	47	47	48	46	45	45	43	38	37	30	39.3	47.9
9-Jun-08	25	26	20	18	A	16	19	27	35	43	44	47	48	48	48	48	47	47	46	47	40	34	36	33	36.6	48.0
10-Jun-08	26	24	22	28	34	A	30	31	37	36	38	37	35	35	34	36	36	44	38	45	33	26	26	23	32.8	45.4
11-Jun-08	22	19	17	16	A	14	12	22	25	41	36	43	47	49	46	46	47	50	50	50	49	37	31	29	34.6	49.9
12-Jun-08	29	25	20	A	7	16	18	23	29	34	40	47	51	51	51	50	49	48	49	44	44	46	41	37	37.0	51.5
13-Jun-08	37	37	A	41	40	38	36	37	39	41	42	42	42	42	47	49	42	41	41	37	37	30	30	28	38.9	49.3
14-Jun-08	25	23	25	24	21	A	20	28	30	33	32	32	33	34	35	36	34	33	33	39	39	38	42	35	31.5	41.7
15-Jun-08	27	23	17	15	A	13	14	15	27	33	36	37	37	39	39	39	39	39	39	36	35	33	24	24	29.6	39.4
16-Jun-08	27	27	26	A	22	18	23	33	39	44	46	47	48	49	48	49	50	50	52	52	47	38	19	13	37.7	52.4
17-Jun-08	35	53	A	43	39	32	33	34	44	44	47	39	39	45	47	48	47	48	50	48	46	40	35	32	42.1	52.6
18-Jun-08	30	A	26	24	18	17	17	26	28	C	C	C	C	44	45	46	46	46	45	36	37	32	29	33	32.8	46.2
19-Jun-08	32	33	33	33	32	A	31	34	35	39	41	47	47	49	49	48	47	47	47	46	45	40	33	31	40.0	49.5
20-Jun-08	29	31	28	29	A	12	18	28	35	39	41	44	46	47	47	47	46	46	46	42	38	33	22	9	35.0	47.4
21-Jun-08	6	6	6	A	8	14	20	24	24	27	30	33	39	39	39	43	43	37	36	35	34	31	37	41	28.3	43.4
22-Jun-08	43	44	A	37	26	29	29	32	32	31	34	33	38	45	45	44	44	46	46	46	44	40	37	38	38.3	46.0
23-Jun-08	36	A	34	36	33	21	24	36	41	42	42	41	39	37	38	38	37	36	36	33	30	20	13	14	32.8	41.9
24-Jun-08	A	11	9	5	4	6	10	20	26	26	33	36	40	40	38	40	37	38	33	37	37	32	32	A	26.8	39.8
25-Jun-08	28	28	27	27	28	24	26	28	31	33	35	36	37	38	37	35	35	35	34	34	33	31	A	35	32.0	37.7
26-Jun-08	38	36	31	34	32	30	31	29	30	29	30	30	33	34	28	28	29	27	27	25	25	A	24	23	29.7	37.9
27-Jun-08	24	24	25	26	27	22	22	26	27	29	31	32	32	40	45	44	40	40	41	39	A	30	33	28	31.6	44.9
28-Jun-08	28	29	27	21	20	19	19	20	28	32	33	33	33	33	33	34	35	41	44	A	42	42	41	35	31.4	44.3
29-Jun-08	30	27	28	24	24	20	22	27	31	38	36	35	34	34	33	34	32	30	A	27	26	22	20	20	28.4	37.8
30-Jun-08	18	10	12	15	11	7	15	23	36	41	44	44	40	41	44	47	48	A	50	45	41	32	29	29	31.6	49.6
Hourly Avg	29.2	27.5	23.8	25.5	23.8	N	23.2	28.4	32.9	36.8	38.7	40.7	41.8	42.8	43.1	43.8	43.3	42.6	42.5	41.2	39.2	34.5	31.4	29.1		
Hourly Max	42.7	52.6	39.7	43.1	40.0	42.6	41.1	38.6	44.1	44.2	50.5	60.6	60.4	55.1	54.5	57.2	57.7	57.9	57.4	56.2	54.2	48.3	42.1	41.7		

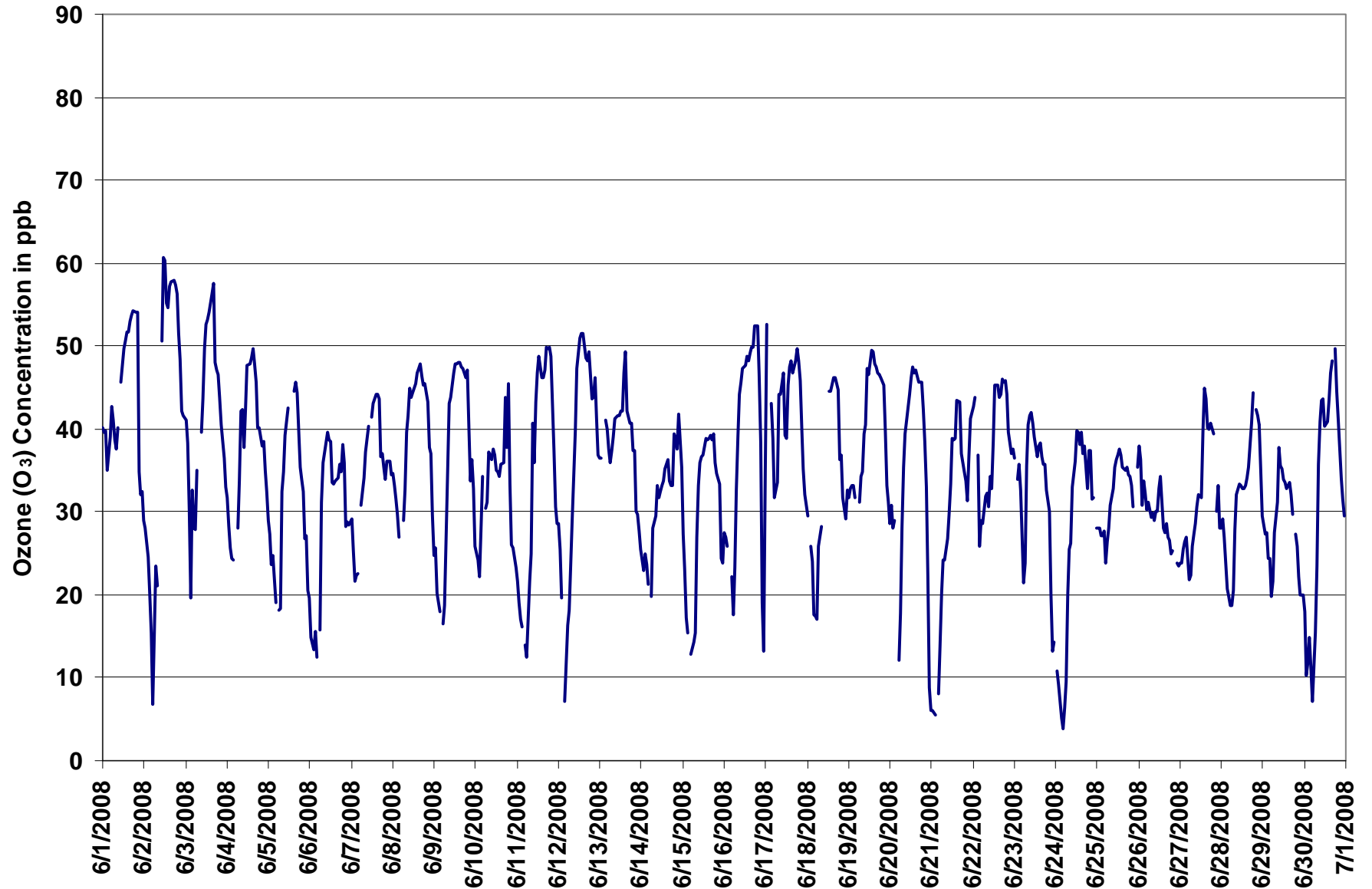
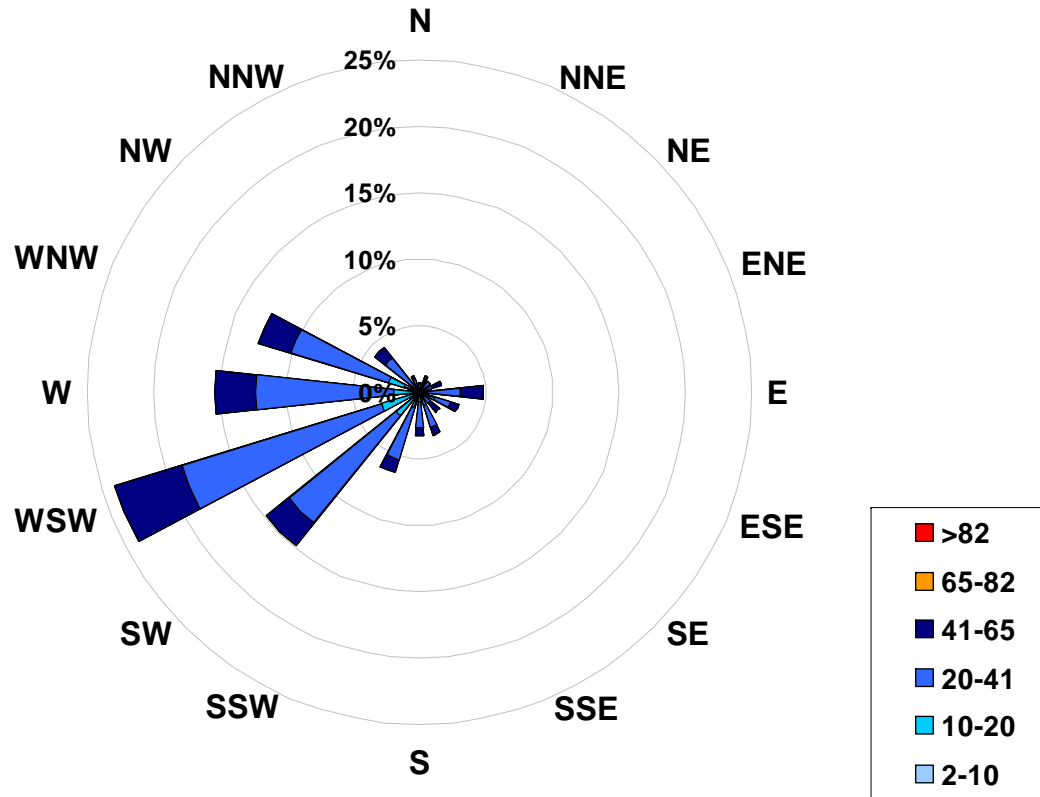


Figure 8. PASZA - Henry Pirker Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Henry Pirker Site for June 2008



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	<	10	22
10	to	20	82
20	to	41	433
41	to	65	144
65	to	82	0
	>	82	0
Total Non-Zero Values			681

PASZA - Henry Pirker Ozone Eight Hour Average Summary

Station: Henry Pirker
 Station Owner: PASZA

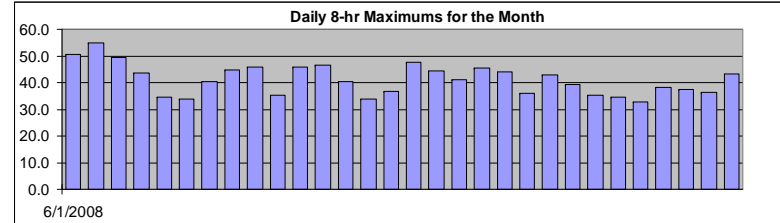
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Number of 8-hr Exceedances:	0		
Maximum 8-hr Average:	55.1 ppb	2-Jun	18:00 19:00



Percentile	99	95	75	50	25	5	1
	50.4	45.4	37.2	31.9	25.4	15.6	9.4

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																							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-Jun-08	43	41	39	37	35	36	36	37	37	37	36	38	40	41	43	45	47	49	49	50	50	46	43	40	50.4																								
2-Jun-08	37	34	30	25	21	19	18	16	14	13	16	21	28	35	41	47	53	53	55	55	54	53	51	49	55.1																								
3-Jun-08	47	44	40	35	32	29	27	26	24	25	28	32	36	40	44	47	48	49	49	49	48	46	44	41	49.4																								
4-Jun-08	38	36	33	31	28	27	24	24	25	26	27	30	33	35	39	41	43	43	44	43	42	41	39	37	43.7																								
5-Jun-08	34	32	30	28	26	24	21	19	19	20	22	25	N	N	N	N	N	N	N	N	N	32	30	26	34.4																								
6-Jun-08	23	20	18	16	14	13	13	15	17	20	24	27	31	31	33	34	34	33	33	33	32	32	31	31	33.7																								
7-Jun-08	30	29	27	25	23	23	22	22	23	25	28	N	N	34	38	40	40	40	39	39	38	36	35	34	40.4																								
8-Jun-08	33	33	32	31	30	30	30	29	30	31	32	35	37	38	40	42	43	44	45	45	44	43	41	39	44.6																								
9-Jun-08	35	32	29	25	23	19	17	17	18	21	24	29	31	35	39	42	44	45	46	45	44	42	41	38	45.7																								
10-Jun-08	35	33	29	27	27	26	25	25	26	28	30	32	32	32	32	32	32	32	33	33	33	32	31	30	29	35.4																							
11-Jun-08	28	25	23	20	19	17	15	15	15	17	20	23	26	30	34	38	41	43	45	46	46	44	41	39	45.9																								
12-Jun-08	36	32	28	26	20	18	16	15	16	17	20	23	28	33	38	41	44	46	47	46	46	45	43	42	46.7																								
13-Jun-08	40	39	38	38	38	37	36	36	36	37	37	37	37	38	39	40	40	40	40	39	38	36	35	32	40.4																								
14-Jun-08	30	27	25	24	22	22	20	20	21	23	24	25	27	27	29	31	31	32	32	33	34	33	34	33	33.8																								
15-Jun-08	32	30	28	25	23	20	17	15	15	17	19	22	24	27	30	33	35	36	37	37	36	35	33	31	36.6																								
16-Jun-08	29	28	26	25	23	21	21	22	23	26	29	31	34	38	41	44	45	46	47	48	47	45	41	36	47.5																								
17-Jun-08	32	32	30	28	27	27	29	32	35	34	35	34	35	36	38	40	41	42	42	44	44	44	42	40	44.3																								
18-Jun-08	38	37	33	29	26	22	19	18	18	18	N	N	N	N	N	N	N	N	N	41	40	38	37	35	41.2																								
19-Jun-08	33	32	31	31	30	31	31	31	31	31	32	32	34	36	37	40	42	43	45	45	45	45	43	41	39	45.3																							
20-Jun-08	36	33	31	29	27	24	22	21	22	24	26	28	30	34	38	41	43	44	44	44	42	40	36	31	44.0																								
21-Jun-08	26	21	16	13	9	7	8	10	12	15	18	20	24	27	30	32	34	35	36	36	36	35	34	34	36.1																								
22-Jun-08	35	35	36	34	33	33	32	30	29	27	28	29	30	31	33	35	37	39	40	42	43	43	41	40	42.9																								
23-Jun-08	39	39	37	35	33	29	27	26	27	28	30	31	32	35	37	38	37	37	36	35	33	31	28	25	39.4																								
24-Jun-08	23	19	15	11	8	6	6	6	8	10	13	17	21	25	29	32	34	35	35	35	35	33	33	32	35.2																								
25-Jun-08	31	30	29	28	26	25	24	25	25	25	26	28	29	31	32	33	34	34	34	34	34	33	33	33	34.4																								
26-Jun-08	33	33	32	32	32	32	31	30	29	29	29	28	28	28	28	28	28	28	27	27	26	26	25	25	32.8																								
27-Jun-08	24	23	23	23	23	22	22	23	23	24	24	24	25	27	30	32	34	35	36	37	38	37	35	33	38.2																								
28-Jun-08	31	30	27	25	24	23	21	20	20	20	21	23	25	27	29	30	32	33	34	34	34	35	37	37	37.5																								
29-Jun-08	36	35	32	31	29	26	24	23	23	24	25	27	28	30	32	33	33	32	31	30	29	27	24	22	36.4																								
30-Jun-08	20	17	16	14	12	10	10	11	13	17	21	24	28	33	37	40	42	42	43	43	43	42	40	36	43.2																								

Hourly Max 47.2 44.3 39.6 38.1 37.8 36.7 36.1 36.6 36.6 36.5 37.0 38.2 40.2 41.4 43.9 47.4 52.8 53.3 55.1 54.9 53.6 52.5 51.0 49.3

PASZA - Henry Pirker Carbon Monoxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

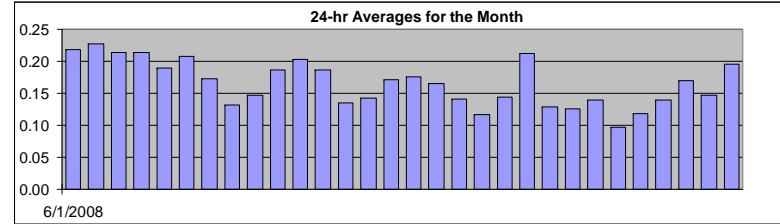
HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	0.6	ppm	21-Jun	0:00 1:00
Maximum 24-hr Value:	0.2	ppm	2-Jun	



AIC Time:	32 hrs	Operational Time:	677 hrs						
Calibration Time:	10 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.2 ppm	0.2 ppm

Status Flag Characters

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

Day	Mountain Standard Time																								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-Jun-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.2	0.22	0.43
2-Jun-08	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	A	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	0.23	0.36
3-Jun-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.21	0.25	
4-Jun-08	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.24	
5-Jun-08	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	C	C	A	0.2	0.2	0.2	0.2	0.3	0.2	0.19	0.25	
6-Jun-08	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.25	
7-Jun-08	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	M	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17	0.20	
8-Jun-08	0.2	0.1	0.2	0.1	0.1	A	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.13	0.18	
9-Jun-08	0.1	0.1	0.2	0.1	A	0.2	0.2	0.2	0.1	C	C	C	C	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.15	0.19	
10-Jun-08	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.25	
11-Jun-08	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.20	0.28
12-Jun-08	0.3	0.3	0.2	A	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.26	
13-Jun-08	0.2	0.2	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.13	0.16	
14-Jun-08	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.14	0.17	
15-Jun-08	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17	0.23	
16-Jun-08	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.4	0.3	0.18	0.36
17-Jun-08	0.2	0.1	A	0.2	0.2	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	0.1	0.1	0.2	0.2	0.2	0.17	0.25	
18-Jun-08	0.2	A	0.1	0.1	0.1	0.2	0.2	0.2	0.1	C	C	C	C	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.14	0.23	
19-Jun-08	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.12	0.15	
20-Jun-08	0.1	0.2	0.1	0.1	A	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.14	0.43	
21-Jun-08	0.6	0.5	0.4	A	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.55	
22-Jun-08	0.2	0.2	A	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.13	0.17	
23-Jun-08	0.1	A	0.1	0.1	0.1	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.13	0.26	
24-Jun-08	A	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.14	0.21	
25-Jun-08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.10	0.11	
26-Jun-08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.12	0.15	
27-Jun-08	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.2	0.2	0.2	0.14	0.22
28-Jun-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	A	0.2	0.1	0.1	0.17	0.22
29-Jun-08	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.2	0.2	0.2	0.2	0.15	0.22	
30-Jun-08	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	A	0.2	0.2	0.2	0.3	0.4	0.20	0.43	
Hourly Avg	0.18	0.18	0.17	0.15	0.16	N	0.19	0.18	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.17	0.19	0.20	0.20		
Hourly Max	0.55	0.48	0.43	0.22	0.31	0.27	0.33	0.36	0.30	0.22	0.28	0.24	0.23	0.24	0.25	0.23	0.25	0.25	0.23	0.22	0.25	0.43	0.37	0.43		

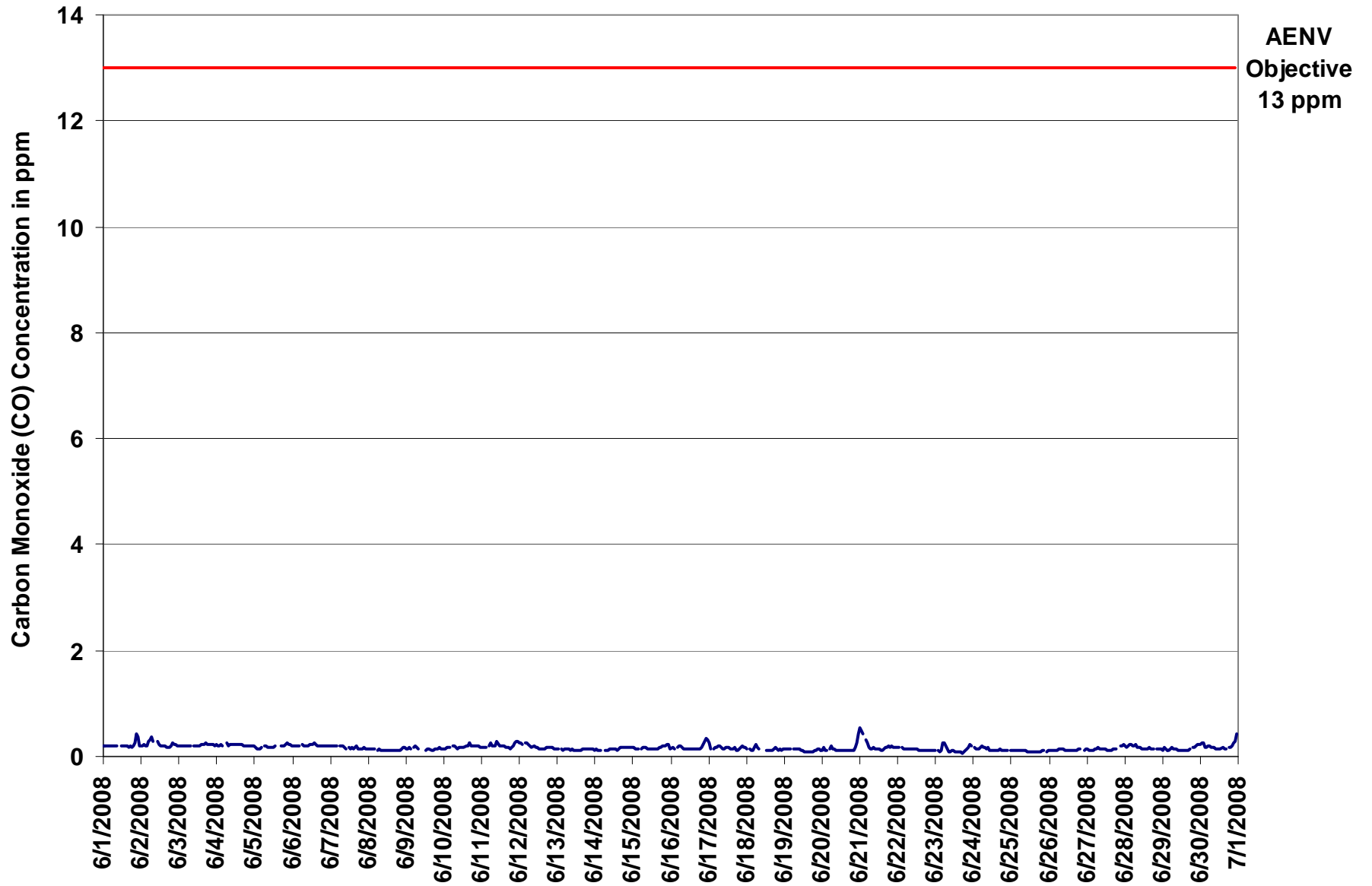


Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

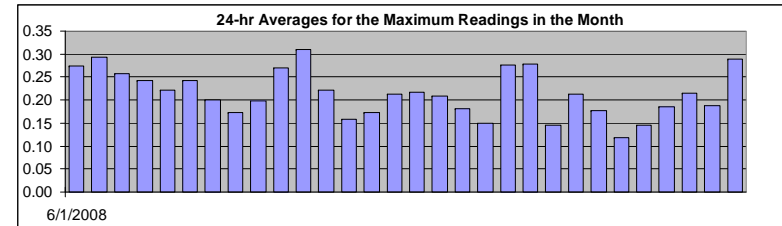
Carbon Monoxide (CO)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	1.7	ppm	11-Jun	10:00 11:00
Maximum 24-hr Value:	0.3	ppm	11-Jun	

AIC Time:	32 hrs	Operational Time:	677 hrs						
Calibration Time:	10 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.7	0.4	0.2	0.2	0.2	0.1	0.1	0.2 ppm	0.2 ppm



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	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	24-hour Average	Daily Maximum
1-Jun-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.8	0.6	0.2	0.27	0.79
2-Jun-08	0.2	0.2	0.4	0.2	0.2	0.3	0.4	0.4	0.3	A	0.3	0.3	0.2	0.2	0.3	0.5	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.29	0.50
3-Jun-08	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.2	A	0.2	0.2	0.3	0.2	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.26	0.37
4-Jun-08	0.3	0.3	0.3	0.3	0.3	A	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24	0.34
5-Jun-08	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	C	C	A	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.22	0.29
6-Jun-08	0.2	0.2	0.2	0.2	0.4	A	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24	0.39
7-Jun-08	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	M	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.25
8-Jun-08	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.7	0.17	0.73
9-Jun-08	0.2	0.4	0.2	0.2	A	0.2	0.2	0.2	0.2	C	C	C	C	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.20	0.42
10-Jun-08	0.2	0.2	0.2	0.2	0.3	A	0.5	0.3	0.3	0.2	0.4	0.3	0.2	0.2	0.3	0.3	0.3	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.27	0.55
11-Jun-08	0.2	0.2	0.2	0.2	A	0.3	0.3	0.3	0.2	0.3	1.7	0.3	0.3	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.31	1.65
12-Jun-08	0.3	0.3	0.3	A	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	0.31
13-Jun-08	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.16	0.20
14-Jun-08	0.2	0.2	0.1	0.1	0.1	A	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17	0.26
15-Jun-08	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.21	0.40
16-Jun-08	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.5	0.4	0.22	0.56
17-Jun-08	0.4	0.2	A	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.41
18-Jun-08	0.2	A	0.2	0.2	0.2	0.2	0.3	0.5	0.2	C	C	C	C	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.18	0.45
19-Jun-08	0.1	0.1	0.1	0.1	0.1	A	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.15	0.22
20-Jun-08	0.2	0.7	0.2	0.1	A	0.3	0.3	0.2	0.2	0.5	0.5	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.8	0.7	0.28	0.80	
21-Jun-08	0.7	0.6	0.5	A	0.4	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.28	0.66
22-Jun-08	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15	0.21
23-Jun-08	0.1	A	0.1	0.1	0.2	0.3	0.4	0.2	0.1	0.1	0.4	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.21	1.05
24-Jun-08	A	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	A	0.1	0.18	0.33
25-Jun-08	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.12	0.16
26-Jun-08	0.1	0.2	0.2	0.1	0.1	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	0.2	0.2	A	0.2	0.2	0.15	0.21
27-Jun-08	0.2	0.2	0.1	0.1	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.3	0.3	0.19	0.49
28-Jun-08	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.21	0.54
29-Jun-08	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.3	0.3	0.3	0.19	0.31
30-Jun-08	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.5	0.2	0.4	0.2	0.3	0.2	0.2	A	0.2	0.3	0.3	0.3	0.4	0.8	0.29	0.76
Hourly Avg	0.21	0.25	0.21	0.17	0.22	N	0.24	0.22	0.19	0.21	0.28	0.24	0.19	0.18	0.19	0.18	0.18	0.19	0.18	0.19	0.21	0.26	0.26	0.26		
Hourly Max	0.66	0.71	0.53	0.25	0.41	0.54	0.50	0.45	0.35	0.49	1.65	1.05	0.39	0.29	0.37	0.50	0.34	0.55	0.27	0.29	0.35	0.79	0.80	0.76		

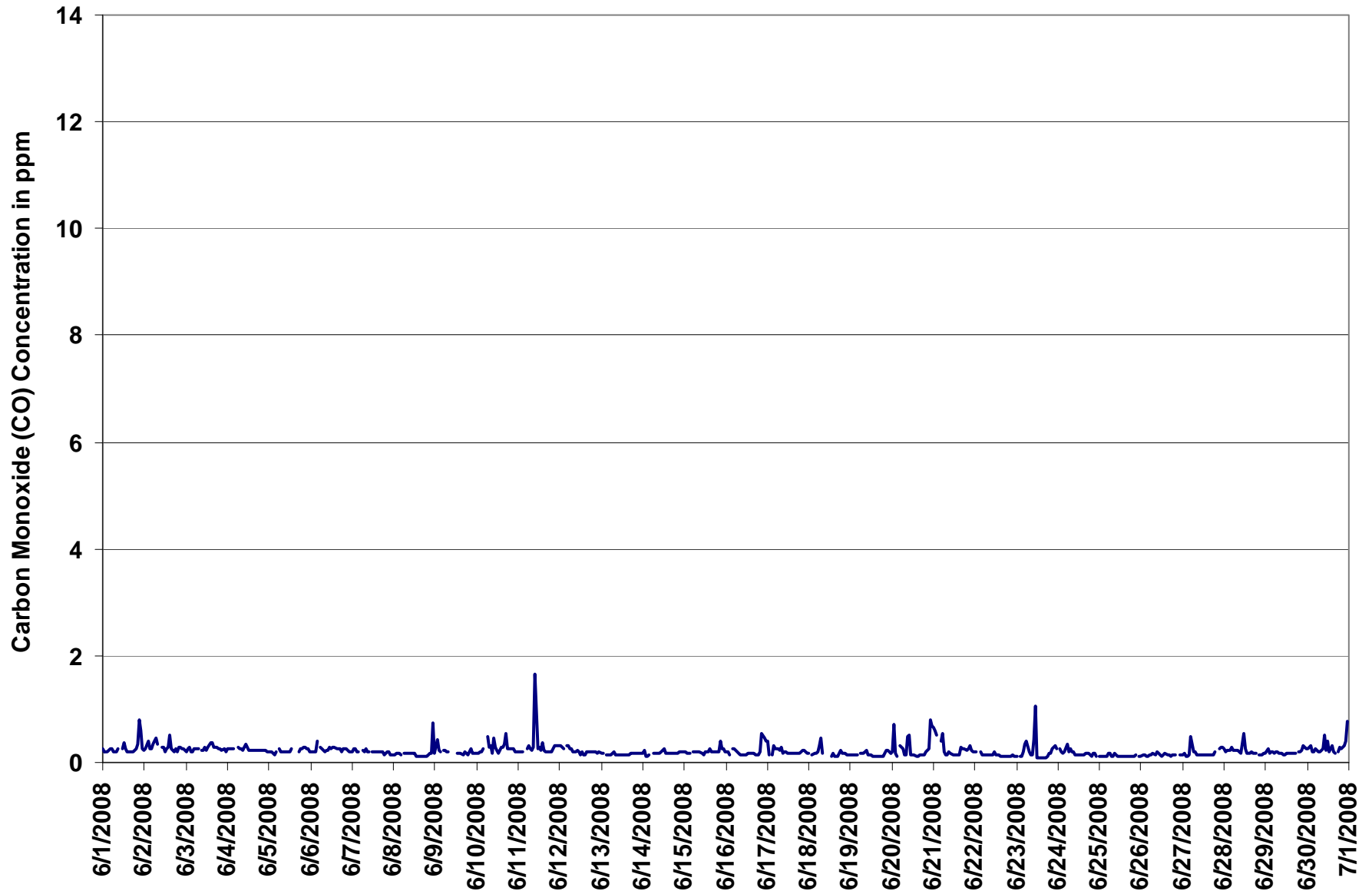
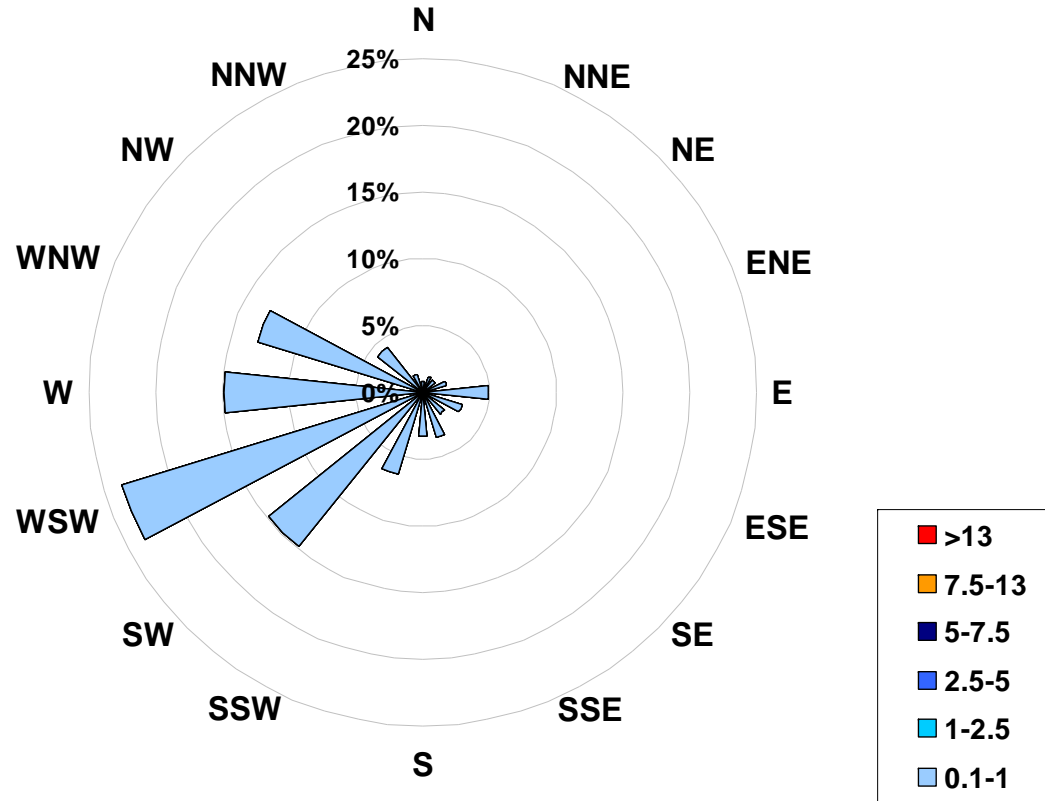


Figure 10. PASZA - Henry Pirker Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Carbon Monoxide (in ppm) Located at the Henry Pirker Site for June 2008



Calms: 0%

Frequency Distribution of CO in ppm			Frequency (hrs)
Range			
0.1	<	1	677
1	to	2.5	0
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
	>	13	0
Total Non-Zero Values			677

PASZA - Henry Pirker Carbon Monoxide Eight Hour Average Summary

Station: Henry Pirker
 Station Owner: PASZA

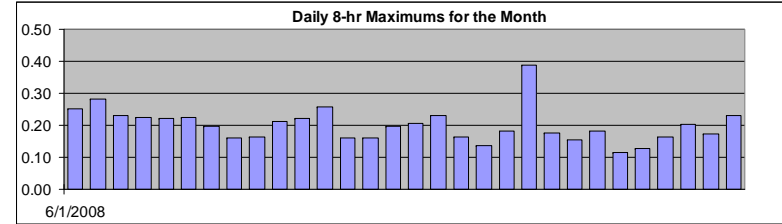
EIGHT HOUR RUNNING AVERAGE TABLE

Carbon Monoxide (CO)

Monitoring Dates: June 1, 2008 to July 1, 2008

Objective Limit: Alberta Environment: 8-hr 5 ppm

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	0.4 ppm 21-Jun 5:00 6:00



Percentile	99	95	75	50	25	5	1
	0.3	0.2	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																								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-Jun-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.25
2-Jun-08	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.28
3-Jun-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
4-Jun-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
5-Jun-08	0.2	0.2	0.2	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	N	N	N	N	0.2	0.22
6-Jun-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
7-Jun-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N	N	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20
8-Jun-08	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	0.1	0.16
9-Jun-08	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	N	N	N	N	N	N	N	N	N	N	N	0.1	0.1	0.1	0.1	0.1	0.16
10-Jun-08	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	0.2	0.2	0.2	0.2	0.2	0.2	0.21
11-Jun-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
12-Jun-08	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26
13-Jun-08	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	0.1	0.16
14-Jun-08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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
15-Jun-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20
16-Jun-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.20
17-Jun-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
18-Jun-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N	N	N	N	N	N	N	N	N	0.1	0.1	0.1	0.1	0.1	0.1	0.16
19-Jun-08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.14
20-Jun-08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.18
21-Jun-08	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.39
22-Jun-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.17
23-Jun-08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15
24-Jun-08	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.18
25-Jun-08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.12
26-Jun-08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.13
27-Jun-08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.16
28-Jun-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.20
29-Jun-08	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.17
30-Jun-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23

Hourly Max	0.26	0.28	0.32	0.35	0.38	0.39	0.37	0.33	0.28	0.27	0.28	0.28	0.28	0.27	0.25	0.23	0.23	0.23	0.23	0.22	0.23	0.23	0.23	0.25	0.25
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PASZA - Henry Pirker Total Hydrocarbons Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

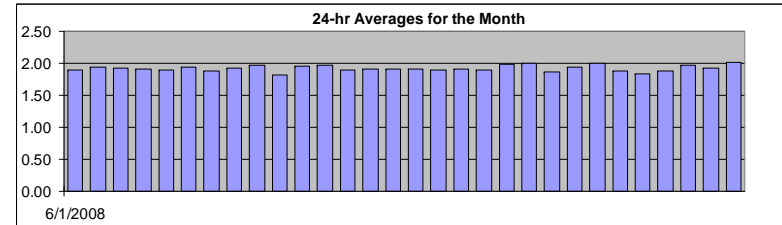
HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Maximum 1-hr Average:	2.5	ppm	12-Jun	0:00 1:00
Maximum 24-hr Value:	2.0	ppm	30-Jun	



AIC Time:	33 hrs	Operational Time:	680 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.4	2.2	1.9	1.9	1.9	1.8	1.7	1.9 ppm	1.9 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			
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-Jun-08	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	2.1	2.1	1.9	1.89	2.15
2-Jun-08	1.9	1.9	2.0	2.1	2.0	2.2	2.1	2.2	2.1	A	2.0	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.94	2.18
3-Jun-08	1.9	2.0	2.4	2.4	2.2	2.0	1.9	1.8	A	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.93	2.45	
4-Jun-08	1.9	1.9	1.9	1.9	1.9	A	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	2.0	1.9	1.91	2.00	
5-Jun-08	2.0	1.9	2.0	1.9	2.0	A	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.1	2.0	1.90	2.09	
6-Jun-08	1.9	1.9	2.0	2.0	2.0	A	2.0	1.9	1.8	C	C	A	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.93	2.05	
7-Jun-08	1.9	1.9	1.9	2.0	2.0	A	1.9	1.9	1.9	1.8	1.8	M	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.89	1.96	
8-Jun-08	1.9	1.9	1.9	1.9	2.0	A	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.92	2.01	
9-Jun-08	2.1	2.0	2.1	2.1	A	2.3	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.97	2.30	
10-Jun-08	2.0	2.0	2.0	1.9	1.9	A	1.9	1.9	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.7	1.8	1.8	1.8	1.9	1.9	1.82	1.98	
11-Jun-08	1.9	2.0	2.0	2.1	A	2.0	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.3	1.96	2.26	
12-Jun-08	2.5	2.3	2.1	A	2.4	2.3	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.8	1.9	1.9	1.98	2.47	
13-Jun-08	1.9	1.9	A	1.8	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.89	1.96	
14-Jun-08	2.0	2.0	2.0	1.9	2.0	A	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.92	1.99	
15-Jun-08	2.0	2.0	1.9	2.0	A	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	2.0	1.90	2.05	
16-Jun-08	1.9	1.9	1.9	A	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.9	2.1	2.3	1.91	2.26	
17-Jun-08	2.3	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.90	2.34	
18-Jun-08	2.1	A	2.0	2.0	2.0	2.1	2.0	2.0	1.9	C	C	C	C	1.9	1.9	1.8	1.8	1.8	1.9	1.9	1.8	1.8	1.9	1.9	1.92	2.07	
19-Jun-08	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.90	2.01	
20-Jun-08	2.0	2.0	2.1	2.0	A	2.2	2.2	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.1	2.3	1.99	2.29	
21-Jun-08	2.4	2.4	2.5	A	2.4	2.2	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.9	1.8	1.9	1.9	1.8	1.9	1.9	1.8	1.8	2.00	2.47	
22-Jun-08	1.8	1.9	A	2.0	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.87	2.01	
23-Jun-08	2.0	A	2.1	2.0	2.1	2.2	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.0	2.1	1.93	2.21	
24-Jun-08	A	2.1	2.1	2.4	2.4	2.4	2.3	2.1	1.9	2.0	1.9	1.8	1.8	1.9	1.8	1.8	1.8	1.9	1.9	1.8	1.9	1.9	1.9	A	1.99	2.40	
25-Jun-08	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.9	A	1.88	1.97	
26-Jun-08	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	A	1.9	1.9	1.83	1.90	
27-Jun-08	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.8	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	A	2.0	1.9	1.88	2.02	
28-Jun-08	2.0	2.2	2.3	2.1	2.1	2.1	2.1	2.1	2.1	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8	A	1.9	1.9	1.9	1.9	1.96	2.27	
29-Jun-08	1.9	2.0	2.0	2.0	2.0	2.2	2.1	2.0	2.0	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	A	1.8	1.8	1.9	2.0	2.0	1.92	2.18	
30-Jun-08	2.2	2.4	2.3	2.3	2.3	2.5	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.8	1.8	A	1.9	1.9	1.9	1.9	2.0	2.0	2.02	2.47	
Hourly Avg	2.00	2.00	2.03	2.01	2.02	N	1.99	1.94	1.92	1.89	1.87	1.87	1.86	1.86	1.86	1.85	1.85	1.85	1.85	1.85	1.85	1.87	1.91	1.95	1.97		
Hourly Max	2.47	2.42	2.47	2.43	2.43	2.47	2.28	2.16	2.15	1.99	1.97	1.93	1.99	2.00	1.99	1.94	1.92	1.94	1.93	1.91	1.91	2.07	2.15	2.29			

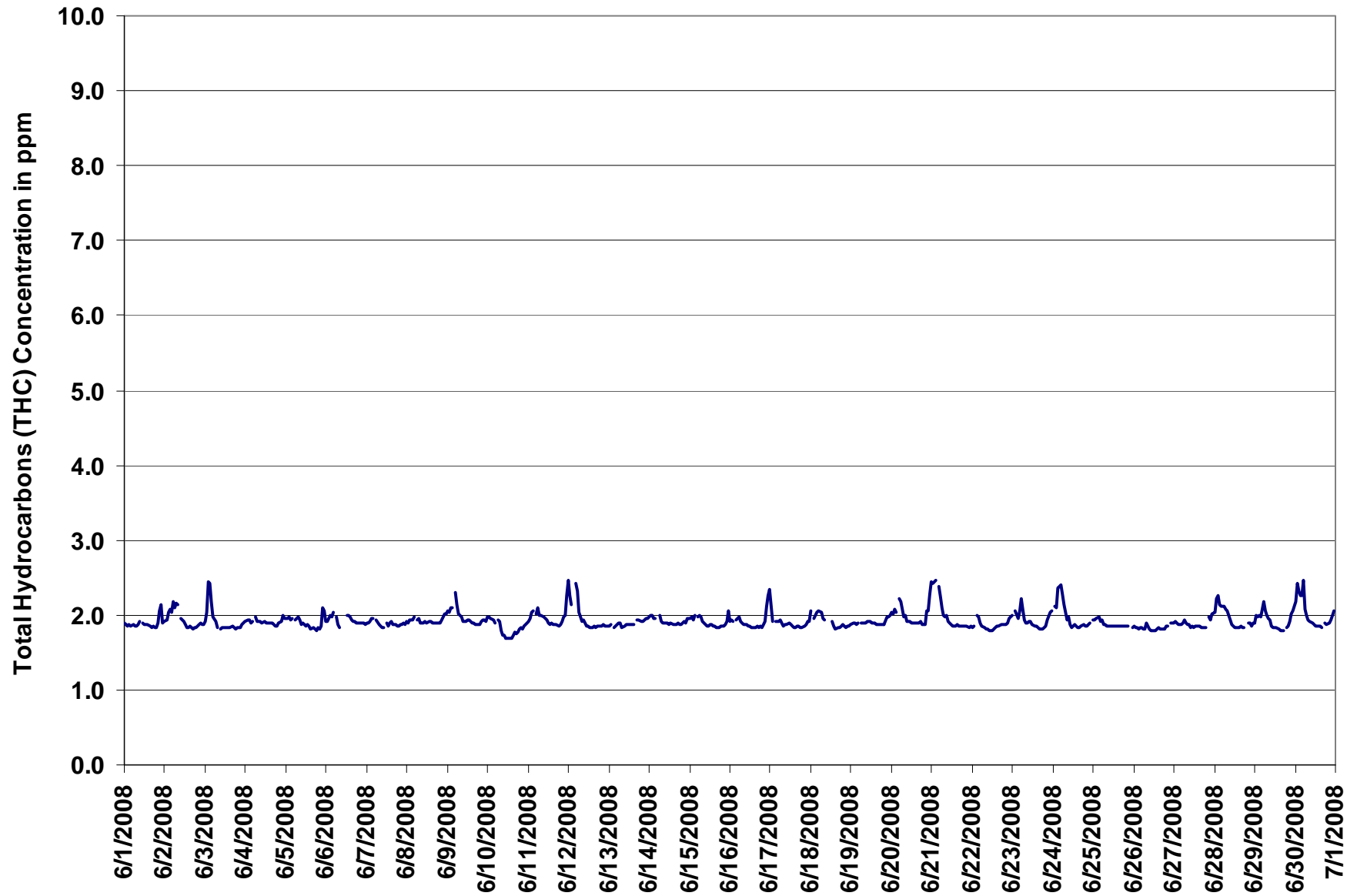


Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

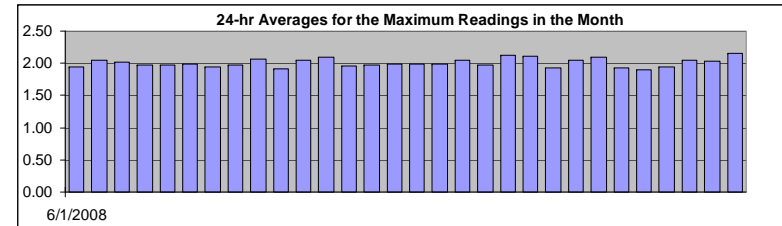
Total Hydrocarbons (THC)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	2.9	ppm	12-Jun	0:00 1:00
Maximum 24-hr Value:	2.2	ppm	30-Jun	

AIC Time:	33 hrs	Operational Time:	680 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.7	2.4	2.0	1.9	1.9	1.9	1.8	2.0 ppm	1.9 ppm



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	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-Jun-08	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.2	2.3	2.0	1.95	2.29	
2-Jun-08	2.0	2.0	2.3	2.3	2.1	2.4	2.4	2.3	2.2	A	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.05	2.39	
3-Jun-08	2.0	2.2	2.7	2.6	2.7	2.0	2.0	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	2.0	1.9	1.9	1.9	1.9	2.02	2.69		
4-Jun-08	2.0	2.0	2.0	2.0	2.0	A	2.1	2.0	2.0	2.0	1.9	1.9	1.9	2.0	1.9	2.0	1.9	1.9	1.9	1.9	2.0	2.1	2.1	2.1	1.98	2.10	
5-Jun-08	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.3	2.2	1.97	2.31	
6-Jun-08	2.0	2.0	2.0	2.1	2.1	A	2.0	2.0	1.9	C	C	A	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.98	2.12	
7-Jun-08	1.9	1.9	2.0	2.0	2.0	A	2.0	1.9	1.9	1.9	2.0	M	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.95	2.03	
8-Jun-08	2.0	2.0	2.0	2.0	2.1	A	2.0	2.0	2.0	2.0	1.9	2.0	1.9	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.1	2.1	1.98	2.10	
9-Jun-08	2.4	2.1	2.2	2.2	A	2.4	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.0	2.06	2.44	
10-Jun-08	2.0	2.1	2.0	2.0	2.0	A	2.3	2.2	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.91	2.29	
11-Jun-08	2.0	2.0	2.1	2.1	A	2.1	2.2	2.1	2.1	2.1	2.2	2.0	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.1	2.5	2.04	2.46	
12-Jun-08	2.9	2.5	2.2	A	2.7	2.5	2.3	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.09	2.94	
13-Jun-08	1.9	1.9	A	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.2	1.9	1.9	2.1	1.9	1.9	A	2.0	2.0	2.0	1.9	2.0	2.0	2.1	1.96	2.15	
14-Jun-08	2.0	2.1	2.1	2.0	2.0	A	2.1	2.0	2.0	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	2.0	1.97	2.11	
15-Jun-08	2.0	2.0	2.0	2.1	A	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.1	1.9	1.9	1.9	1.9	2.1	2.4	1.98	2.38	
16-Jun-08	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	1.9	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.4	2.4	1.99	2.43	
17-Jun-08	2.6	2.2	A	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.99	2.64	
18-Jun-08	2.3	A	2.1	2.0	2.1	2.1	2.1	2.0	2.7	C	C	C	C	2.1	1.9	1.9	2.0	2.1	2.0	2.0	1.9	1.9	1.9	1.9	2.05	2.66	
19-Jun-08	1.9	1.9	1.9	1.9	1.9	A	2.0	1.9	2.0	1.9	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	1.9	2.0	2.3	2.0	2.1	1.97	2.28	
20-Jun-08	2.1	2.1	2.2	2.3	A	2.3	2.3	2.0	2.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	1.9	2.4	2.3	2.6	2.12	2.63	
21-Jun-08	2.6	2.5	2.7	A	2.7	2.9	2.2	2.1	2.0	2.1	2.0	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.11	2.88	
22-Jun-08	1.9	1.9	A	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	1.92	2.12	
23-Jun-08	2.1	A	2.3	2.0	2.2	2.5	2.3	2.0	1.9	2.0	2.3	2.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.2	2.05	2.49
24-Jun-08	A	2.2	2.3	2.5	2.4	2.5	2.4	2.3	2.0	2.1	2.0	1.9	1.9	2.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	A	2.09	2.53	
25-Jun-08	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.92	2.02	
26-Jun-08	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2	1.9	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.8	1.9	1.9	1.9	A	2.1	2.0	1.89	2.20	
27-Jun-08	1.9	2.0	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.1	2.1	2.1	1.94	2.13	
28-Jun-08	2.2	2.4	2.4	2.3	2.2	2.2	2.2	2.2	2.2	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	2.0	1.9	1.9	2.05	2.42	
29-Jun-08	2.0	2.1	2.0	2.0	2.4	2.6	2.3	2.2	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.8	A	1.9	1.9	2.0	2.0	2.1	2.3	2.04	2.60	
30-Jun-08	2.4	2.7	2.6	2.6	2.4	2.8	2.3	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	2.0	2.0	2.0	2.0	2.2	2.15	2.77	
Hourly Avg	2.10	2.09	2.14	2.10	2.15	N	2.11	2.02	2.03	1.95	1.97	1.93	1.91	1.94	1.91	1.92	1.91	1.92	1.91	1.91	1.93	2.00	2.04	2.09			
Hourly Max	2.94	2.72	2.73	2.63	2.75	2.88	2.35	2.32	2.66	2.10	2.29	2.28	2.03	2.35	2.03	2.29	2.05	2.08	1.98	2.00	2.01	2.39	2.39	2.63			

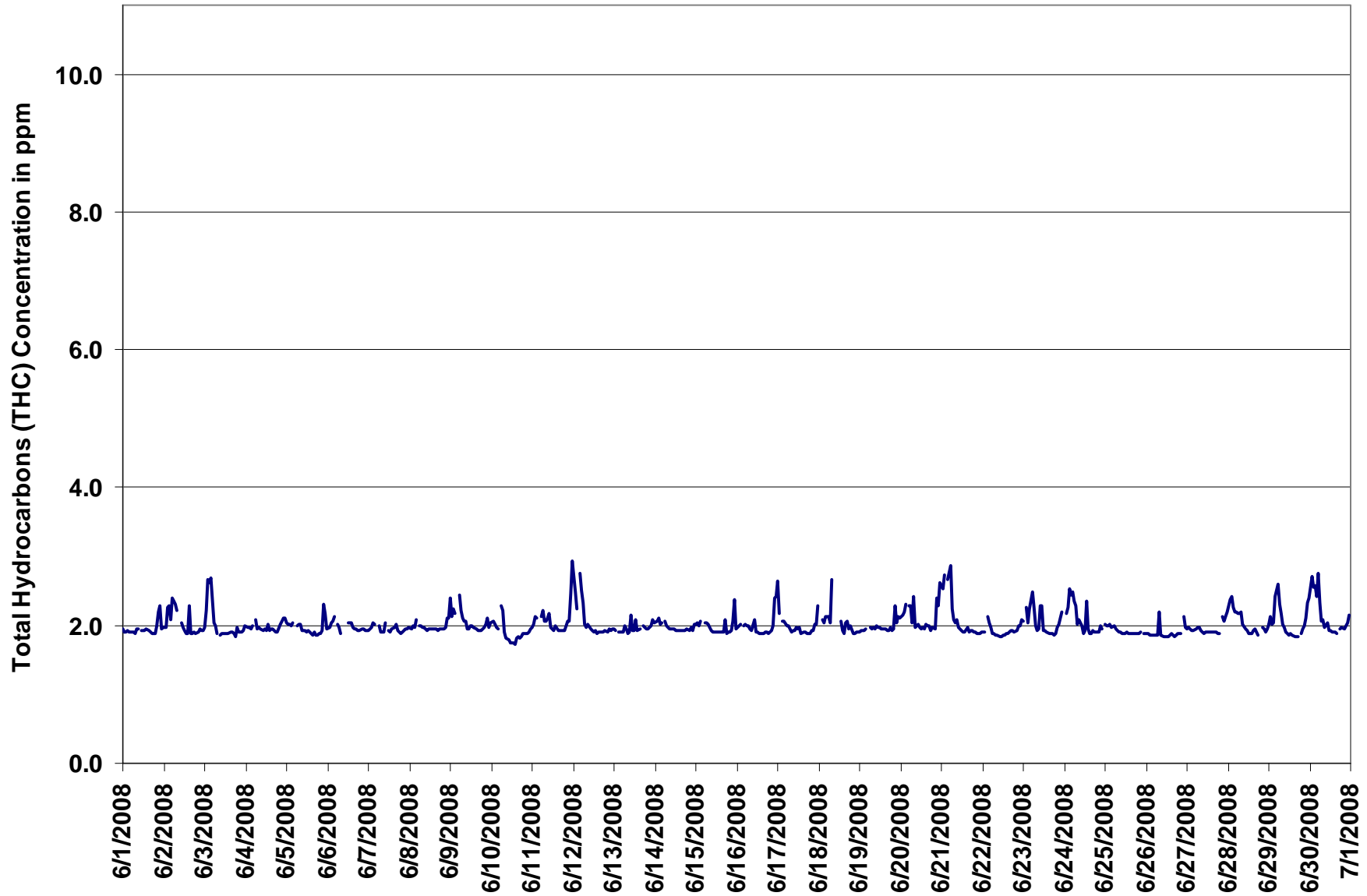
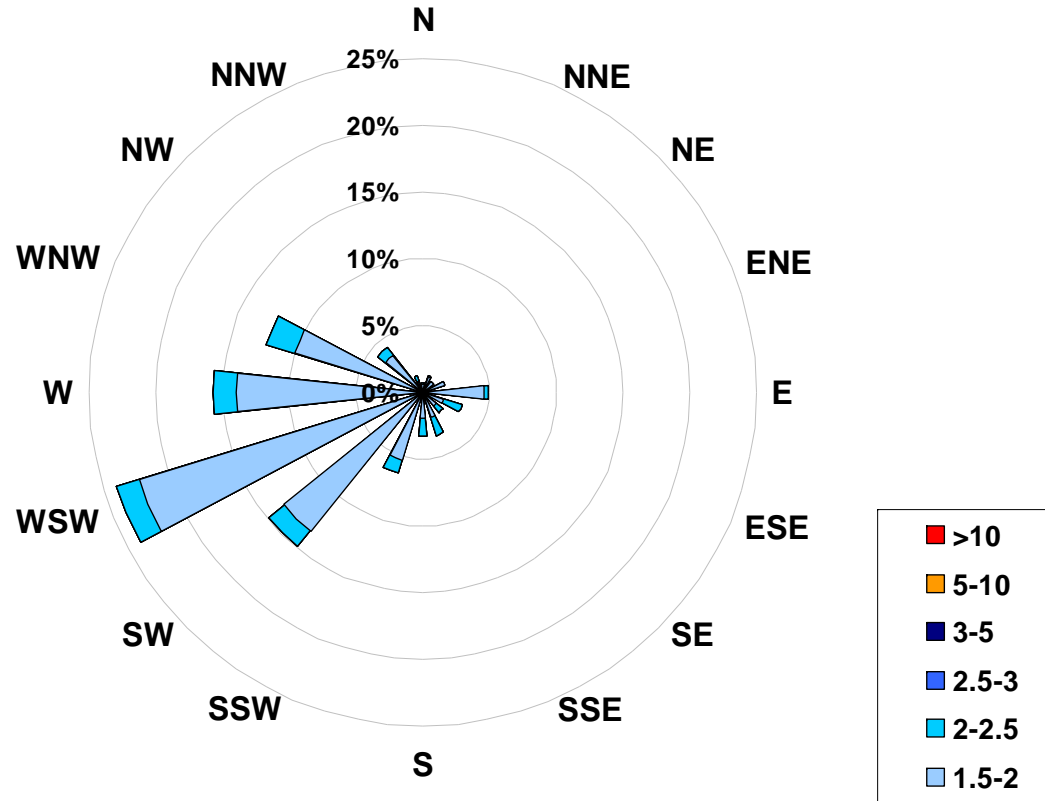


Figure 12. PASZA - Henry Pirker Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Hydrocarbons (in ppm)
Located at the Henry Pirker Site for June 2008**



Calms: 0%

Frequency Distribution of THC in ppm			Frequency (hrs)
Range			
1.5	<	2	579
2	to	2.5	101
2.5	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			680

PASZA - Henry Pirker Total Reduced Sulphur Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

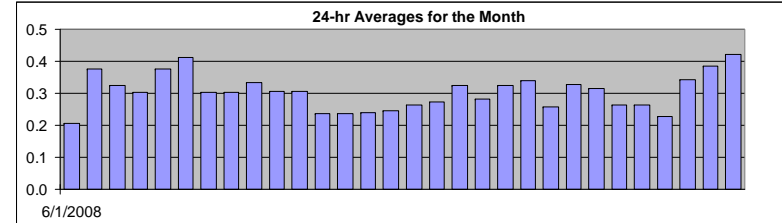
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Maximum 1-hr Average:	1.0	ppb	30-Jun	1:00 2:00
Maximum 24-hr Value:	0.4	ppb	30-Jun	



AIC Time:	32 hrs	Operational Time:	679 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.7	0.5	0.3	0.3	0.2	0.2	0.1	0.3 ppb	0.3 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	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-Jun-08	0:00	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
2-Jun-08	1:00	0	0	0	0	0	0	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8
3-Jun-08	2:00	0	0	1	1	1	0	0	0	A	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0.3	0.7	
4-Jun-08	3:00	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
5-Jun-08	4:00	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.4	0.6
6-Jun-08	5:00	0	0	1	1	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6	
7-Jun-08	6:00	0	0	0	0	0	A	0	0	0	0	0	M	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
8-Jun-08	7:00	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
9-Jun-08	8:00	0	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8	
10-Jun-08	9:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
11-Jun-08	10:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
12-Jun-08	11:00	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6	
13-Jun-08	12:00	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
14-Jun-08	13:00	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
15-Jun-08	14:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
16-Jun-08	15:00	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
17-Jun-08	16:00	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
18-Jun-08	17:00	0	A	0	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
19-Jun-08	18:00	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
20-Jun-08	19:00	0	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
21-Jun-08	20:00	1	1	1	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7	
22-Jun-08	21:00	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
23-Jun-08	22:00	0	A	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6	
24-Jun-08	23:00	A	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.6	
25-Jun-08	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.4	
26-Jun-08	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.3	
27-Jun-08	2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.3	
28-Jun-08	3:00	0	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.6	
29-Jun-08	4:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	1	1	0.4	0.7
30-Jun-08	5:00	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.4	1.0	
Hourly Avg		0.3	0.4	0.4	0.4	0.4	N	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
Hourly Max		0.7	1.0	0.8	0.7	0.7	0.9	0.8	0.7	0.7	0.5	0.5	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.7	

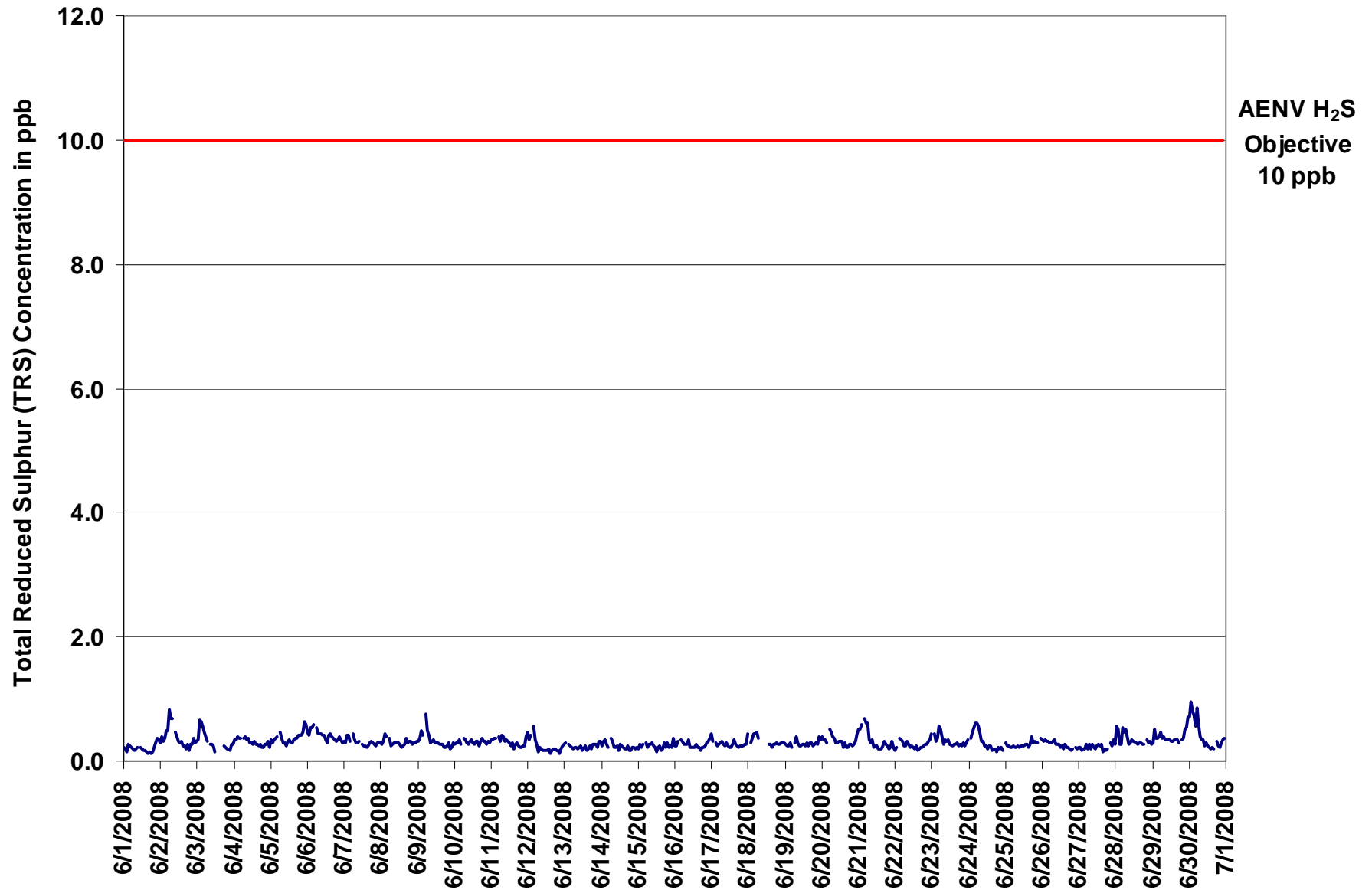


Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

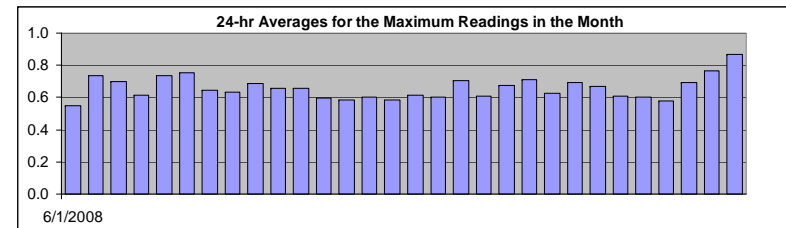
Total Reduced Sulphur (TRS)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	2.0	ppb	30-Jun	1:00 2:00
Maximum 24-hr Value:	0.9	ppb	30-Jun	

AIC Time:	32 hrs	Operational Time:	679 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.2	0.9	0.7	0.6	0.6	0.5	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																								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		
1-Jun-08	1	0	0	1	1	1	1	0	1	1	A	1	1	0	0	0	0	0	0	0	0	1	1	1	0.5	0.8
2-Jun-08	1	1	1	1	1	1	2	1	1	A	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0.7	1.5
3-Jun-08	1	1	1	1	1	1	1	1	A	1	1	1	0	C	C	C	A	1	1	0	1	1	1	1	0.7	1.1
4-Jun-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
5-Jun-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1
6-Jun-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
7-Jun-08	1	1	1	1	1	A	1	1	1	1	1	M	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
8-Jun-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.9
9-Jun-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	0.7	1.2
10-Jun-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1
11-Jun-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
12-Jun-08	1	1	1	A	1	1	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0.6	1.0
13-Jun-08	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	0.6	0.7
14-Jun-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	0	0	1	0.6	0.8
15-Jun-08	1	1	1	1	A	1	1	1	1	1	1	1	0	1	1	0	0	1	0	1	1	1	1	1	0.6	0.8
16-Jun-08	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0.6	0.8
17-Jun-08	1	1	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	1	0.6	0.8
18-Jun-08	1	A	1	1	1	1	1	1	C	C	C	C	C	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
19-Jun-08	1	0	1	1	0	A	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0.6	0.9
20-Jun-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
21-Jun-08	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0
22-Jun-08	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0.6	0.8
23-Jun-08	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1
24-Jun-08	A	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	1	0	1	A	A	0.7	1.1
25-Jun-08	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	A	1	0.6	0.8
26-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	A	1	1	0.6	0.7
27-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	A	1	1	1	0.6	0.7
28-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.7	1.1
29-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.8	1.5
30-Jun-08	1	2	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.9	2.0
Hourly Avg	0.7	0.7	0.8	0.7	0.7	N	0.8	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7		
Hourly Max	1.4	2.0	1.9	1.3	1.1	1.7	1.5	1.0	1.1	0.9	0.8	0.9	0.7	0.7	0.8	0.9	0.9	0.8	0.8	0.9	0.8	0.8	1.1	1.5		

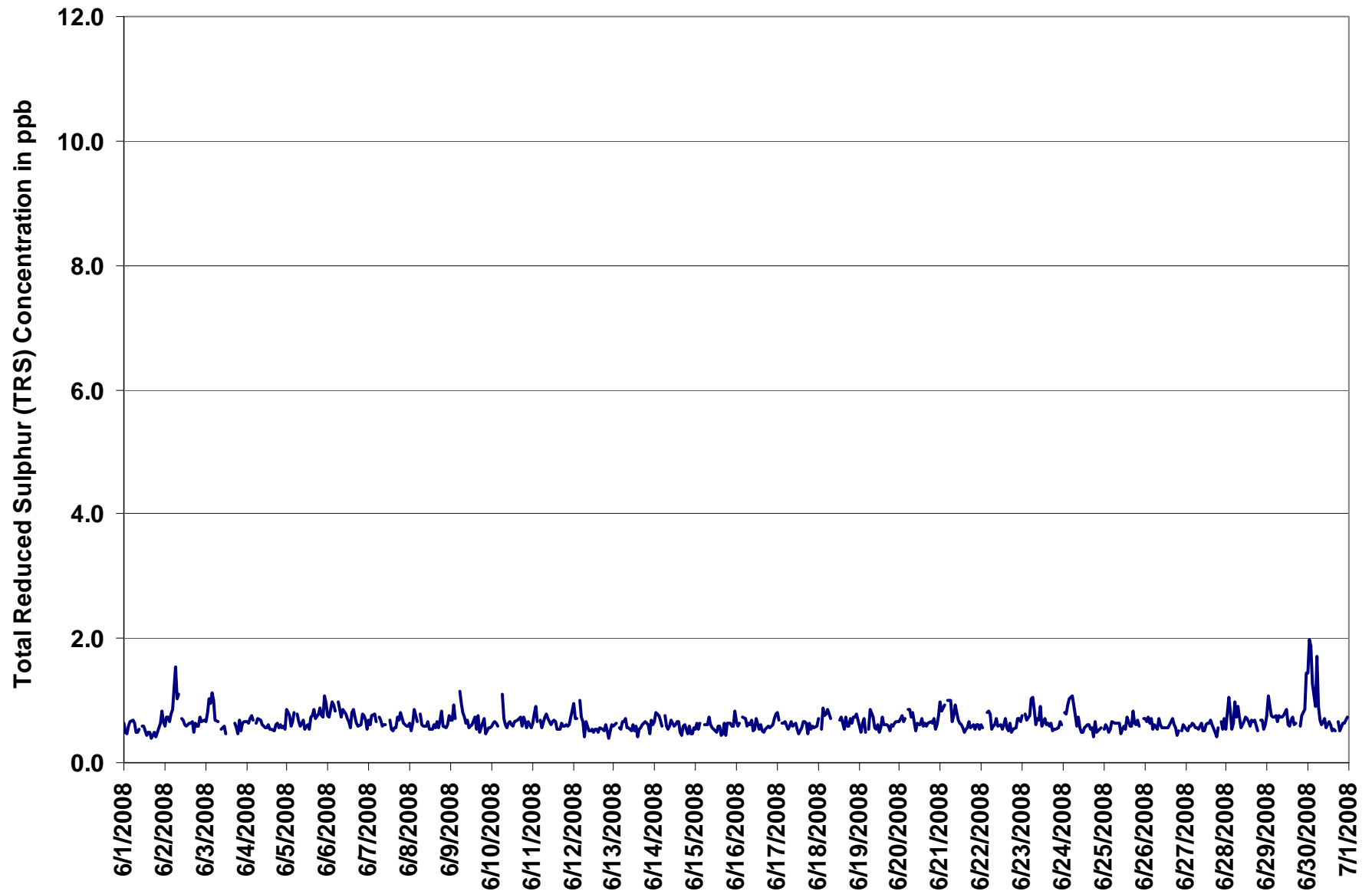
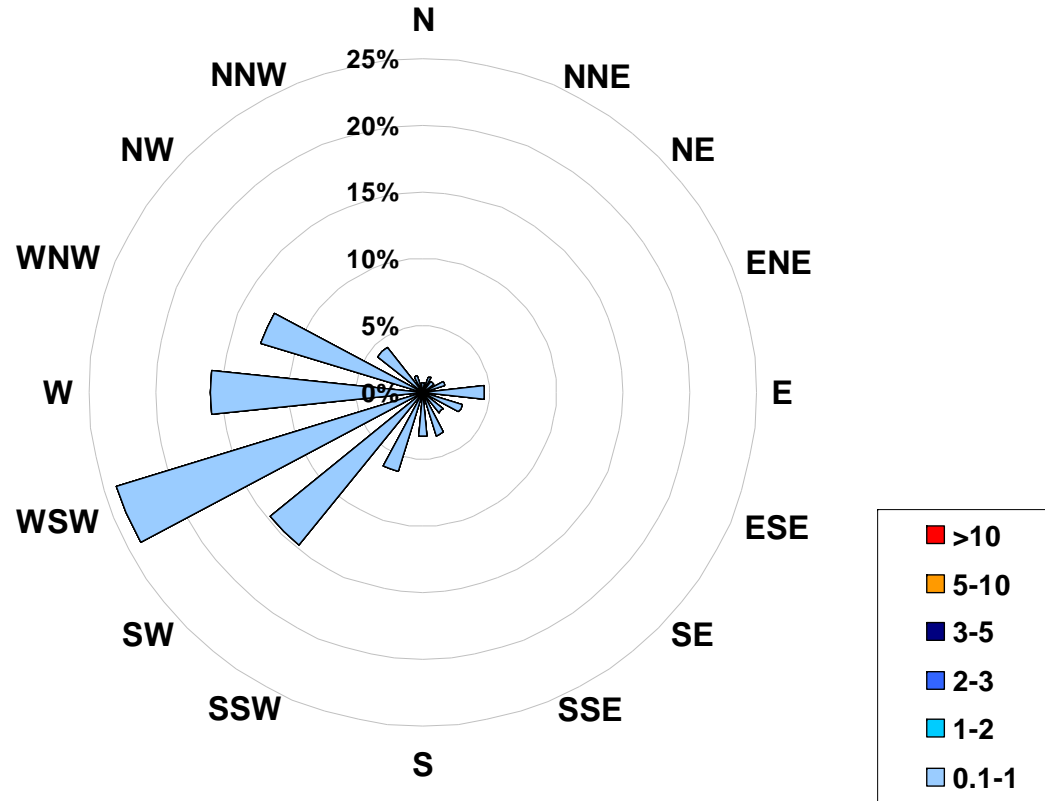


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Henry Pirker Site for June 2008**



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	679
1	to	2	0
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			679

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

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

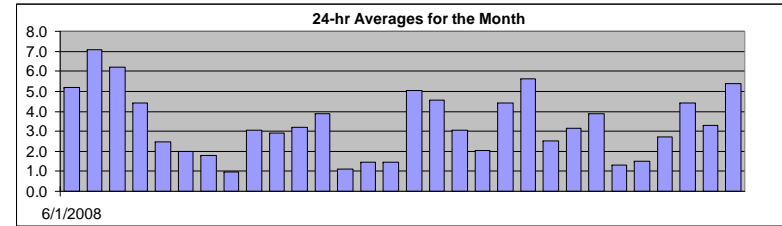
Particulate Matter (PM_{2.5})

Monitoring Dates: June 1, 2008 to July 1, 2008

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:	23.0 µg/m ³ 1-Jun 22:00 23:00
Maximum 24-hr Value:	7.1 µg/m ³ 2-Jun

AIC Time:	0 hrs	Operational Time:	711 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	14.5	9.1	4.6	2.4	1.3	0.0	0.0	3.3 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 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-Jun-08	2	0	3	3	2	2	1	0	2	5	5	5	5	2	4	3	4	5	6	6	10	18	23	7	5.2	23.0
2-Jun-08	4	4	5	5	6	10	9	10	11	12	8	5	2	4	5	4	3	4	8	8	14	11	10	8	7.1	13.7
3-Jun-08	8	9	10	9	8	6	7	2	0	2	3	3	7	11	2	9	9	16	8	6	4	2	4	3	6.2	16.3
4-Jun-08	3	4	6	6	4	7	6	2	3	4	9	0	3	4	2	3	3	11	7	3	7	6	0	2	4.4	10.7
5-Jun-08	0	2	2	0	3	2	3	6	1	0	0	1	0	2	0	0	4	13	7	0	4	1	7	3	2.5	12.9
6-Jun-08	0	0	0	0	0	0	2	3	2	1	2	C	C	6	4	4	3	4	3	2	1	4	2	2	2.0	5.9
7-Jun-08	2	2	3	3	2	3	3	1	1	1	1	1	2	1	2	2	2	2	1	1	1	2	2	2	1.8	3.0
8-Jun-08	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	2	3	2	2	1.0	2.9
9-Jun-08	2	2	2	2	3	5	4	4	2	0	1	1	2	C	C	5	3	1	3	6	4	6	5	4	3.0	6.4
10-Jun-08	4	3	4	3	4	3	4	7	2	2	2	3	2	2	3	4	2	2	3	4	2	2	1	1	2.9	7.1
11-Jun-08	1	1	2	1	3	3	4	3	4	4	4	3	3	4	3	1	3	2	1	3	3	5	7	10	3.2	10.3
12-Jun-08	10	7	8	9	7	6	3	5	3	3	3	0	0	2	2	1	2	4	7	3	2	3	1	2	3.9	9.6
13-Jun-08	1	0	0	0	0	2	1	1	0	0	2	1	1	1	1	4	2	1	2	2	2	2	1	0	1.1	3.9
14-Jun-08	1	1	1	0	1	1	2	1	1	2	1	1	1	2	2	2	2	2	1	4	2	3	1	2	1.5	3.6
15-Jun-08	2	2	1	0	1	2	2	3	2	0	0	0	1	0	0	0	1	1	2	2	2	3	4	4	1.5	4.0
16-Jun-08	1	1	0	1	1	1	1	2	3	5	7	7	8	7	8	6	8	6	7	6	9	8	11	10	5.0	11.1
17-Jun-08	10	3	2	4	4	4	4	5	5	4	7	5	5	3	3	3	7	4	2	3	9	4	5	4	4.5	10.4
18-Jun-08	7	2	3	1	3	4	4	4	D	C	C	C	5	3	1	2	5	6	2	2	2	2	1	3.1	7.2	
19-Jun-08	3	0	1	1	1	2	3	2	2	2	1	0	1	0	1	1	2	1	3	2	4	7	7	4	2.1	6.9
20-Jun-08	6	7	3	3	3	9	8	6	6	3	1	2	2	2	1	2	2	2	3	2	3	5	10	17	4.4	16.6
21-Jun-08	19	16	14	15	9	7	4	2	5	4	5	3	0	0	0	4	6	3	4	2	4	3	3	4	5.6	18.9
22-Jun-08	5	5	5	8	2	2	5	5	3	4	2	2	0	0	0	0	0	0	0	1	2	3	2	3	2.5	8.0
23-Jun-08	3	3	2	2	4	8	9	4	1	1	2	1	1	1	1	2	1	0	2	2	5	7	7	8	3.2	9.0
24-Jun-08	6	7	8	4	5	7	6	8	6	7	2	2	2	2	4	2	6	5	0	0	1	2	0	0	3.9	8.2
25-Jun-08	1	1	1	1	0	1	1	0	0	0	0	1	2	3	3	3	4	1	1	1	1	2	2	1	1.3	3.6
26-Jun-08	3	2	0	0	0	1	0	0	0	0	0	1	0	4	1	2	8	1	2	2	2	3	2	2	1.5	8.5
27-Jun-08	2	2	1	1	1	2	3	4	2	2	0	1	1	0	0	3	2	5	4	4	5	7	5	8	2.7	7.8
28-Jun-08	7	5	4	6	7	7	6	7	6	5	2	0	1	2	3	2	3	3	2	4	6	5	5	5	4.4	7.1
29-Jun-08	4	5	1	3	2	6	5	4	5	4	0	1	1	2	2	1	1	1	5	3	6	5	5	8	3.3	7.5
30-Jun-08	9	10	6	3	4	6	9	8	5	3	1	1	1	2	1	2	2	3	5	4	9	9	11	15	5.4	15.2
Hourly Avg	4.2	3.5	3.3	3.2	3.2	4.0	4.0	3.7	2.8	2.7	2.4	1.8	2.0	2.5	2.0	2.6	3.2	3.6	3.6	2.9	4.2	4.8	4.9	4.7		
Hourly Max	18.9	15.9	13.8	14.5	9.2	9.8	9.1	10.3	10.8	11.8	9.2	6.7	7.8	10.8	7.7	9.5	9.2	16.3	8.4	8.3	13.7	17.9	23.0	16.6		

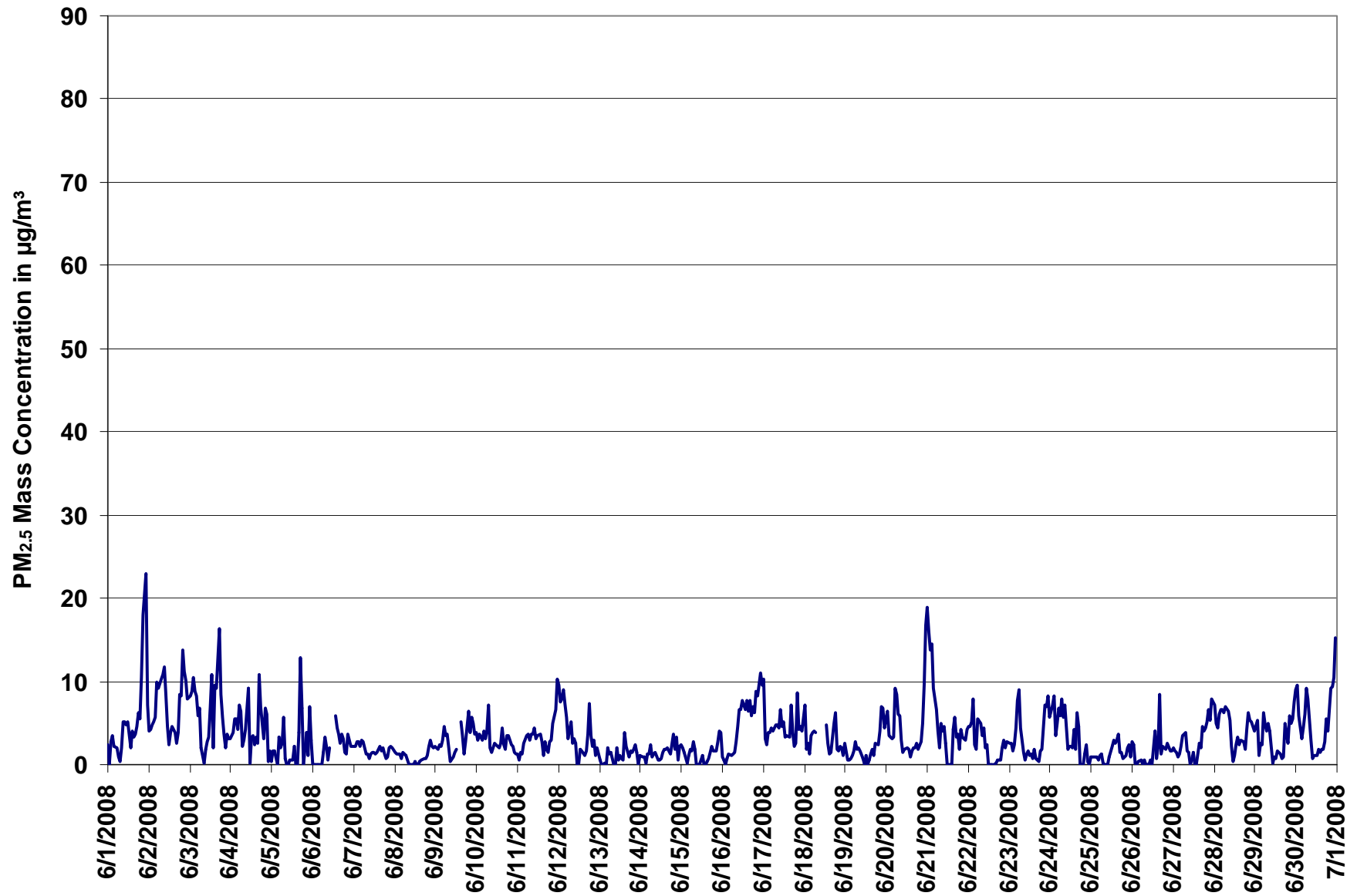


Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

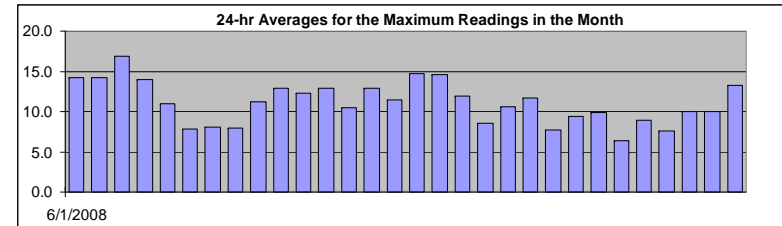
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	48.7	µg/m ³	1-Jun	22:00 23:00
Maximum 24-hr Value:	16.9	µg/m ³	3-Jun	



AIC Time:	0 hrs	Operational Time:	712 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	29.5	20.0	13.5	10.1	7.3	5.0	3.8	11.1	10.8 µg/m ³

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-08	13	12	12	12	10	8	8	9	9	10	9	10	10	10	10	7	11	11	13	13	28	44	49	13	14.2	48.7
2-Jun-08	10	10	12	15	13	18	21	17	19	21	13	12	11	8	10	10	9	10	15	18	20	18	16	16	14.3	21.3
3-Jun-08	15	24	27	23	23	16	17	7	8	8	7	12	16	25	15	19	31	27	26	16	13	7	12	12	16.9	30.7
4-Jun-08	12	12	14	13	12	14	14	7	12	13	35	8	11	15	9	14	13	20	17	15	17	12	12	14	14.0	35.2
5-Jun-08	9	9	8	5	12	7	8	11	9	5	11	7	12	11	6	7	17	32	15	9	17	9	19	8	10.9	31.9
6-Jun-08	5	7	5	4	5	6	7	10	13	7	10	C	C	11	9	10	8	7	7	8	8	10	8	10	7.8	12.6
7-Jun-08	9	9	11	13	10	12	10	6	5	5	6	7	6	7	8	8	7	8	6	6	8	9	8	10	8.1	13.3
8-Jun-08	9	11	10	10	10	11	11	10	7	5	5	5	6	5	4	6	6	4	5	6	9	12	12	11	7.9	12.4
9-Jun-08	12	12	10	10	12	13	15	14	10	6	4	4	6	C	C	13	10	9	7	18	13	18	16	15	11.2	17.8
10-Jun-08	15	16	17	17	17	14	17	19	14	12	12	10	10	10	10	13	11	8	12	12	12	11	10	10	12.9	18.8
11-Jun-08	10	9	12	11	14	13	13	11	13	12	12	10	13	16	13	11	21	9	9	9	10	11	14	20	12.3	20.8
12-Jun-08	20	17	18	20	18	17	14	13	11	11	11	6	10	11	11	10	11	15	20	10	8	10	8	9	12.8	19.8
13-Jun-08	9	10	8	12	10	12	12	11	7	6	9	7	9	9	9	11	11	7	12	11	14	15	15	14	10.4	15.4
14-Jun-08	15	14	15	14	17	15	16	14	11	15	14	10	7	8	10	11	10	8	11	14	15	16	14	15	12.9	17.2
15-Jun-08	16	15	17	15	15	14	14	15	13	7	7	6	7	7	7	9	7	10	8	9	8	13	16	17	11.4	16.8
16-Jun-08	12	13	13	14	15	13	15	10	11	12	13	14	14	12	14	14	13	13	12	12	15	25	26	27	14.7	27.3
17-Jun-08	25	14	13	15	16	16	15	13	12	11	17	16	13	10	14	13	16	16	8	10	20	16	15	15	14.6	25.4
18-Jun-08	23	17	18	16	18	16	17	10	6	C	C	C	C	10	8	6	5	14	13	6	8	8	10	8	11.9	23.1
19-Jun-08	10	7	7	8	8	9	11	7	7	6	5	5	6	3	4	5	6	5	10	8	18	27	15	10	8.5	26.9
20-Jun-08	12	18	10	12	11	17	16	10	9	7	4	7	5	7	5	7	5	7	6	6	8	12	23	29	10.5	28.8
21-Jun-08	27	24	21	20	16	15	11	9	8	9	9	6	7	5	7	13	13	13	11	6	9	8	7	9	11.7	26.7
22-Jun-08	9	9	11	15	10	7	11	10	11	10	7	8	7	2	4	4	3	4	5	4	7	10	10	10	7.7	14.8
23-Jun-08	10	9	9	11	14	13	19	11	6	6	6	6	6	5	4	6	5	6	7	8	9	18	14	15	9.4	18.8
24-Jun-08	15	14	16	9	9	15	13	12	11	13	7	7	6	7	8	9	11	10	8	6	8	10	7	6	9.8	16.1
25-Jun-08	7	6	7	5	6	8	7	5	5	5	5	5	7	7	5	8	7	6	6	7	7	8	9	6	6.4	9.5
26-Jun-08	10	11	5	4	5	6	5	5	7	7	6	6	7	15	8	9	46	6	7	7	9	8	7	8	8.9	46.3
27-Jun-08	8	7	7	6	7	8	12	9	6	5	4	4	4	3	6	7	5	8	8	7	10	14	12	17	7.6	17.2
28-Jun-08	13	12	11	12	12	13	13	13	10	10	10	7	6	7	8	7	9	7	8	11	11	11	10	9	9.9	12.8
29-Jun-08	11	28	8	8	9	14	11	9	9	9	6	6	6	6	5	5	6	6	11	11	13	11	12	22	10.0	27.7
30-Jun-08	37	30	20	15	14	15	17	12	11	8	6	6	6	8	7	7	6	6	9	8	15	12	16	27	13.3	36.7
Hourly Avg	13.5	13.5	12.4	12.1	12.3	12.5	13.0	10.7	9.6	8.9	9.3	7.7	8.4	8.9	8.2	9.2	11.3	10.4	10.4	9.6	12.2	13.8	14.1	13.8		
Hourly Max	36.7	29.6	26.5	22.5	22.9	17.5	21.3	18.8	19.0	20.8	35.2	15.7	15.9	24.5	15.2	19.0	46.3	31.9	26.3	17.7	27.5	44.5	48.7	28.8		

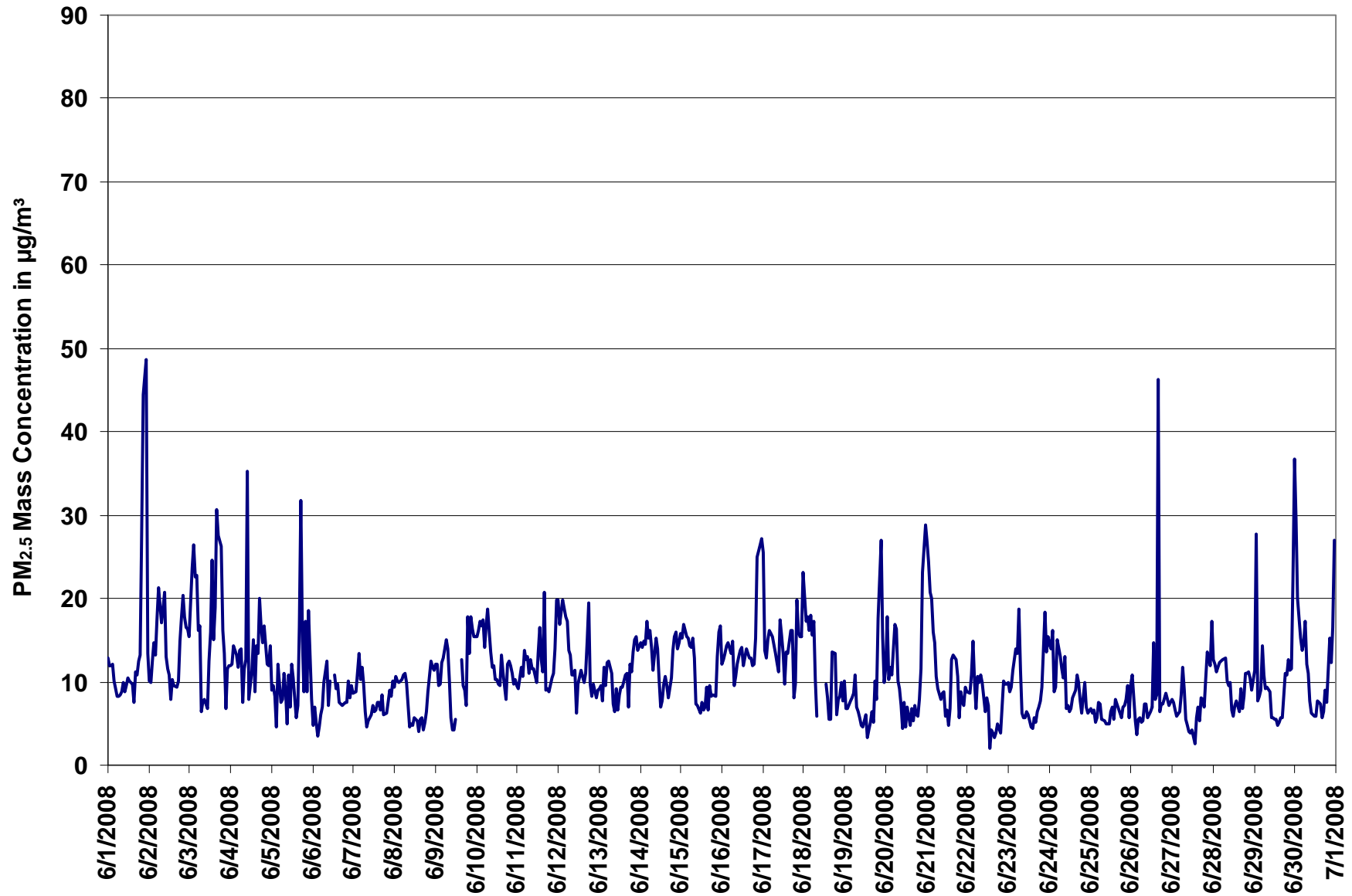
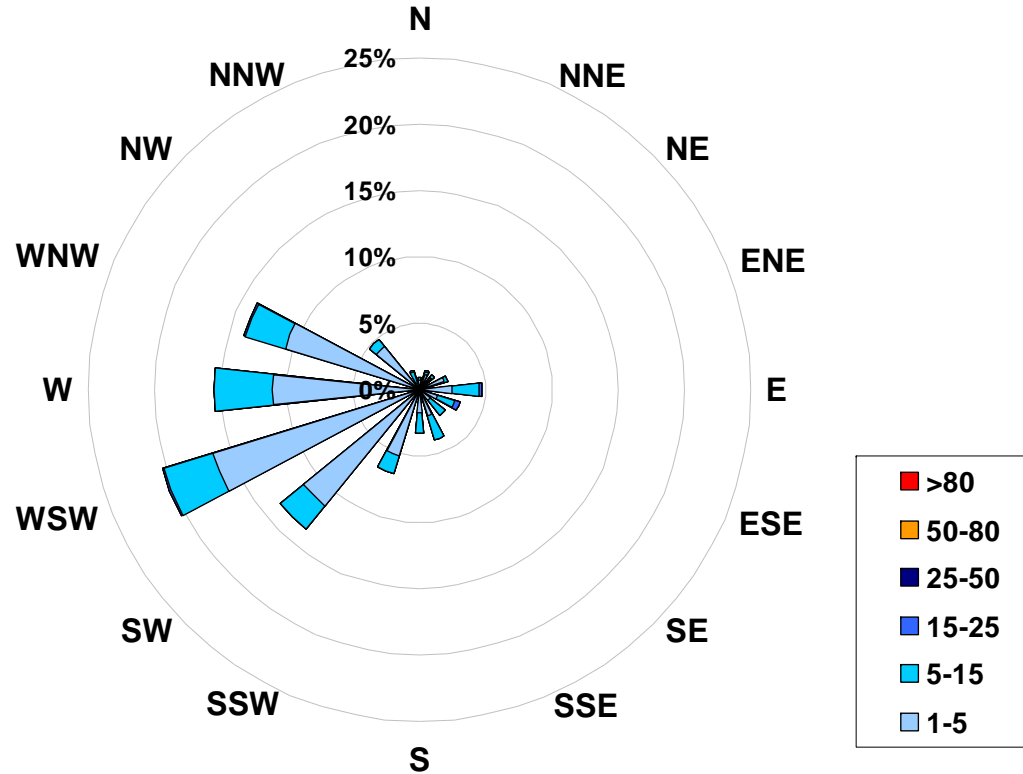


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 June 2008



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	556
5	to	15	148
15	to	25	7
25	to	50	0
50	to	80	0
	>	80	0
Total Non-Zero Values			711

PASZA - Henry Pirker Relative Humidity Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

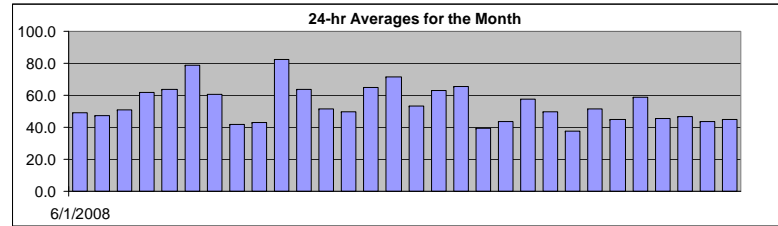
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:				95.0	%	11-Jun	4:00 5:00
Maximum 24-hr Value:				82.4	%	10-Jun	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	93.0	88.2	68.9	53.9	38.1	24.0	20.7	54.2 %	53.9 %

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 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-Jun-08	64	67	68	73	71	66	66	60	57	55	51	47	42	34	30	26	24	26	26	28	41	44	54	65	49.3	73.1
2-Jun-08	71	76	80	85	89	88	79	66	61	52	45	36	25	24	22	20	17	16	17	18	29	34	40	41	47.1	89.2
3-Jun-08	47	57	66	70	70	66	64	55	47	44	40	36	33	31	30	24	29	45	53	54	60	66	69	70	51.1	70.4
4-Jun-08	76	82	88	90	90	89	84	71	64	58	56	51	46	45	42	40	40	41	45	44	48	63	61	62	61.6	90.5
5-Jun-08	65	65	67	67	71	66	63	64	58	54	50	44	48	47	48	44	42	61	78	77	77	87	90	92	63.6	92.4
6-Jun-08	87	89	89	87	88	85	82	80	77	73	68	70	73	79	81	76	72	70	69	72	81	80	80	80	78.7	89.4
7-Jun-08	80	83	86	85	86	88	81	72	65	57	54	49	47	42	40	41	45	55	49	49	50	51	50	51	60.6	87.8
8-Jun-08	54	60	63	69	71	71	66	58	45	40	35	33	32	26	23	22	21	22	23	24	29	37	40	43	41.9	71.1
9-Jun-08	56	58	63	64	67	70	59	50	41	28	23	22	22	22	22	22	22	22	24	40	53	59	62	68	43.2	69.6
10-Jun-08	73	76	77	73	74	74	71	75	81	85	88	88	88	85	83	89	85	76	85	89	90	91	91	92	82.4	91.7
11-Jun-08	93	93	94	94	95	94	90	78	73	62	61	54	46	44	44	45	40	36	37	37	44	49	56	63	63.5	95.0
12-Jun-08	70	77	84	88	90	88	74	67	54	47	39	30	25	25	24	25	27	29	39	46	48	46	49	54	51.8	89.9
13-Jun-08	58	63	64	61	60	63	60	56	48	41	36	36	33	33	32	37	38	38	44	49	52	63	60	64	49.6	64.4
14-Jun-08	70	73	76	75	76	75	71	68	65	67	65	61	53	48	43	47	54	52	52	67	71	74	73	77	64.8	77.2
15-Jun-08	78	83	89	89	89	87	85	90	85	74	64	59	54	52	46	43	53	57	60	66	67	76	82	82	71.2	89.6
16-Jun-08	77	79	84	88	87	83	73	65	55	47	42	38	38	34	33	30	29	28	27	28	38	47	55	75	53.4	88.1
17-Jun-08	61	43	53	62	70	74	71	61	57	52	53	62	69	67	53	49	56	59	53	56	74	85	88	92	63.3	91.7
18-Jun-08	93	92	94	91	93	94	86	72	69	63	56	49	44	42	40	37	36	44	68	63	61	63	64	57	65.4	93.5
19-Jun-08	60	60	60	60	61	60	56	51	48	41	35	29	26	23	21	20	22	21	20	22	27	44	40	39	39.5	60.8
20-Jun-08	45	50	51	51	56	61	55	46	40	38	34	34	34	31	34	32	34	36	36	35	38	46	57	70	43.5	69.6
21-Jun-08	74	80	84	86	85	81	73	65	61	55	51	46	33	27	27	32	54	55	51	46	51	54	53	57	57.5	86.3
22-Jun-08	60	63	68	74	69	60	66	69	69	72	67	65	54	42	36	30	27	25	23	24	27	32	38	38	50.0	74.4
23-Jun-08	43	49	51	48	59	61	47	41	35	30	26	26	26	25	24	24	24	24	25	28	38	47	50	55	37.8	60.9
24-Jun-08	59	67	77	76	77	77	74	61	46	41	32	30	29	30	36	32	44	51	46	43	46	52	55	59	51.6	77.5
25-Jun-08	64	66	68	70	66	66	58	51	46	41	35	31	29	29	30	31	33	33	34	34	36	40	42	46	44.9	69.8
26-Jun-08	52	70	78	66	67	74	76	79	76	70	59	50	44	50	50	47	43	44	45	48	49	54	56	61	58.7	79.2
27-Jun-08	65	67	66	60	60	63	58	54	51	48	42	38	37	33	27	26	28	29	29	30	38	45	46	56	45.6	66.5
28-Jun-08	58	61	63	66	68	68	68	65	57	50	43	35	35	35	33	37	34	32	28	30	35	34	38	43	46.5	68.0
29-Jun-08	48	57	52	55	56	62	60	51	47	43	36	34	32	30	29	29	27	28	34	36	41	49	55	60	43.7	62.2
30-Jun-08	68	76	74	77	76	80	64	55	47	37	29	28	27	26	25	23	22	22	23	25	34	43	47	52	45.1	80.4
Hourly Avg	65.7	69.4	72.6	73.4	74.5	74.4	69.3	63.2	57.5	52.0	47.3	43.7	40.7	38.7	36.9	36.0	37.4	39.2	41.5	43.6	49.1	55.2	58.0	62.2		
Hourly Max	93.0	93.5	94.3	94.5	95.0	94.4	90.1	89.6	84.7	84.5	87.5	88.2	87.7	85.5	83.2	89.3	85.0	75.8	85.3	89.2	90.1	91.2	90.8	92.4		

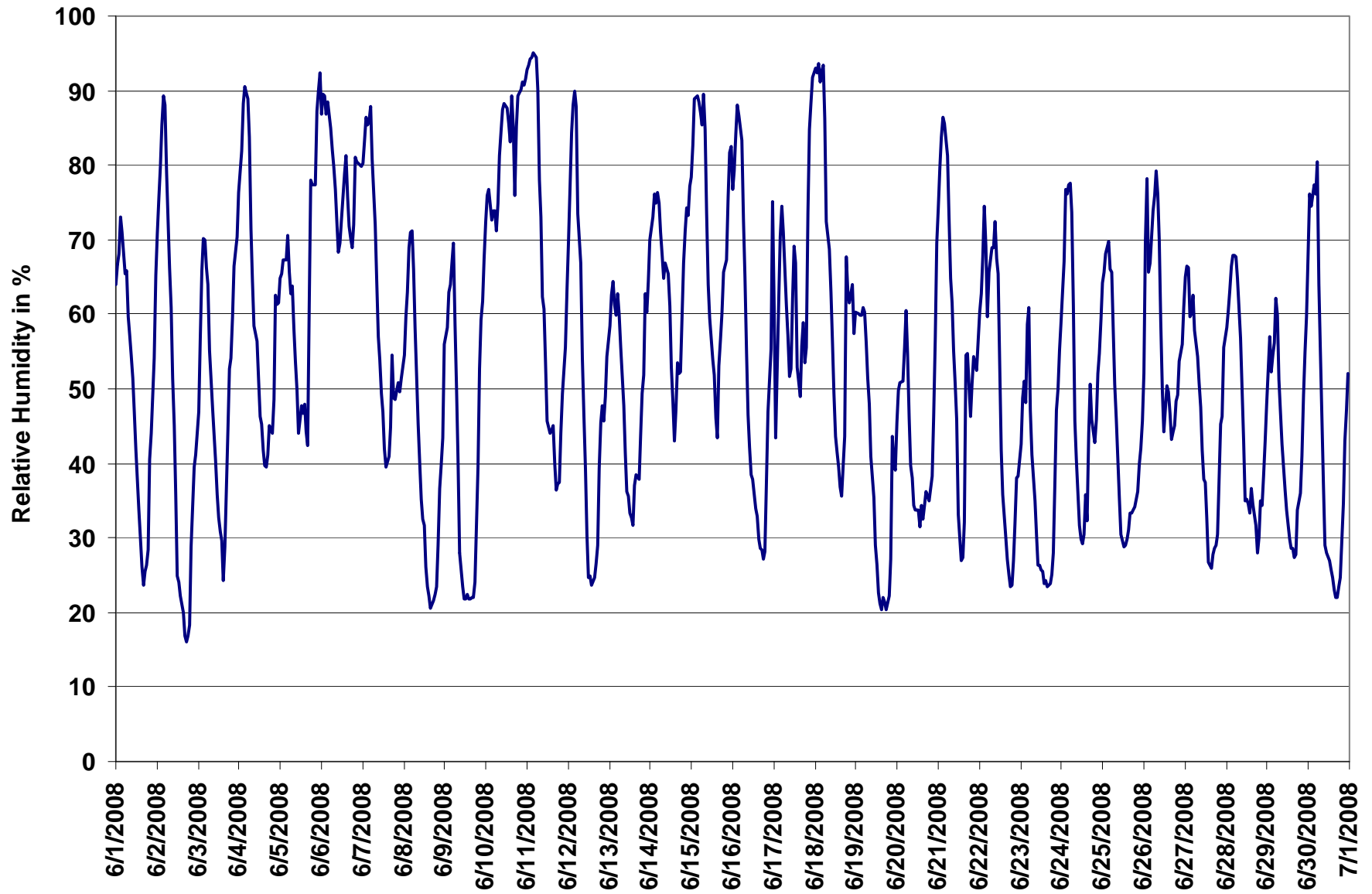


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

PASZA - Henry Pirker Temperature Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

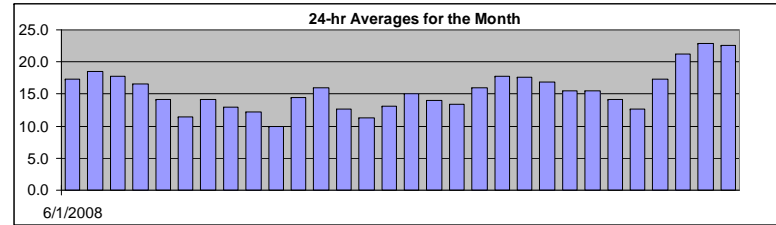
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	30.4	°C	29-Jun	16:00 17:00
Maximum 24-hr Value:	22.9	°C	29-Jun	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	29.0	25.4	19.3	15.3	11.1	7.5	6.0	15.5 °C	15.3 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	6:00 7:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00 0:00		
1-Jun-08	12	11	11	10	10	12	12	12	13	14	16	18	20	22	24	25	25	25	24	24	23	20	18	15	14	17.4	25.2	
2-Jun-08	12	11	9	8	7	7	11	15	17	20	22	24	25	25	26	26	26	26	26	25	25	22	20	18	16	18.6	26.4	
3-Jun-08	15	13	11	9	11	12	14	17	19	21	22	24	25	25	25	25	24	21	18	17	16	14	14	13	17.7	25.5		
4-Jun-08	12	12	11	10	10	10	12	16	17	19	20	20	20	21	21	22	22	22	21	19	19	18	16	15	14	16.6	21.9	
5-Jun-08	13	13	12	11	9	11	12	13	15	16	17	18	17	18	17	18	19	19	16	13	13	13	12	11	11	14.1	19.1	
6-Jun-08	11	10	9	9	8	8	9	10	12	13	14	13	13	13	12	13	13	14	14	14	13	12	12	12	12	11.5	14.1	
7-Jun-08	11	10	9	9	8	7	10	12	14	16	17	18	18	19	20	19	18	16	17	16	15	15	14	13	14.2	20.3		
8-Jun-08	11	10	9	7	6	6	8	10	13	15	15	16	17	18	19	19	19	18	18	17	16	14	12	10	8	13.0	18.6	
9-Jun-08	5	5	4	3	3	3	6	10	12	16	17	18	19	19	19	19	19	19	19	18	15	13	11	11	9	12.2	19.1	
10-Jun-08	8	7	7	9	9	10	10	10	9	9	9	9	9	10	11	12	11	12	14	12	10	10	10	9	8	9.9	13.8	
11-Jun-08	8	7	7	6	6	7	8	13	14	16	17	18	20	20	20	19	20	21	21	20	18	16	14	12	14.4	21.3		
12-Jun-08	11	10	8	7	7	7	10	13	16	19	21	23	23	24	24	24	23	22	21	18	17	16	16	15	14	16.0	24.2	
13-Jun-08	13	11	11	11	10	9	10	11	13	14	15	15	15	16	16	16	16	14	15	15	14	14	12	10	9	8	12.6	16.1
14-Jun-08	7	6	6	6	6	7	9	11	12	12	11	13	15	16	18	17	16	16	15	13	11	10	10	10	10	11.3	17.7	
15-Jun-08	10	10	9	8	8	9	10	10	11	13	15	16	17	17	19	19	19	17	17	16	15	14	12	11	11	13.0	18.9	
16-Jun-08	11	11	10	8	8	8	10	12	14	16	17	18	18	18	20	21	21	21	21	21	20	17	15	13	11	15.1	21.1	
17-Jun-08	12	15	14	12	11	10	11	15	16	16	16	14	14	15	18	17	16	16	17	16	13	11	10	10	10	13.9	18.0	
18-Jun-08	9	9	8	7	7	7	9	12	14	15	16	16	18	19	19	20	20	20	17	13	13	13	12	12	12	13.4	20.0	
19-Jun-08	11	11	11	10	10	9	11	12	14	15	17	18	19	20	21	21	21	21	22	22	21	19	17	16	16	16.0	21.7	
20-Jun-08	14	13	12	13	11	11	13	16	19	20	21	22	22	23	21	22	22	22	21	22	22	20	18	15	13	17.8	22.9	
21-Jun-08	12	11	9	9	9	10	12	14	16	18	20	22	25	26	26	24	21	21	22	21	20	19	19	18	17.6	26.2		
22-Jun-08	18	17	16	15	15	16	16	16	15	15	16	17	18	19	19	20	20	20	20	19	19	17	15	13	12	16.8	20.4	
23-Jun-08	10	8	8	9	6	7	11	13	15	16	18	19	20	21	21	22	22	22	22	21	21	19	16	14	13	15.4	21.9	
24-Jun-08	12	10	8	7	7	8	11	15	19	21	22	23	23	23	20	21	19	17	17	17	16	14	13	12	15.6	23.0		
25-Jun-08	10	10	9	8	9	9	11	13	14	16	17	18	18	18	18	18	18	17	17	16	16	15	14	14	13	14.1	18.4	
26-Jun-08	12	10	9	10	10	9	9	8	9	10	12	15	15	15	15	15	15	17	16	16	15	15	14	13	12	12.6	16.9	
27-Jun-08	10	9	9	10	10	10	12	15	17	18	19	21	22	22	23	24	24	24	24	23	21	18	17	15	17.4	23.8		
28-Jun-08	14	13	13	12	12	12	13	15	19	23	25	27	27	27	28	27	28	28	29	29	26	24	23	23	21	21.3	29.2	
29-Jun-08	19	17	17	16	16	15	17	19	22	24	25	26	27	29	29	30	30	30	30	28	27	25	22	20	18	22.9	30.4	
30-Jun-08	17	15	15	13	12	13	17	21	23	25	27	28	28	29	29	29	29	29	29	28	27	25	22	21	19	22.5	29.3	
Hourly Avg	11.7	10.8	10.0	9.5	9.0	9.3	11.1	13.3	15.1	16.7	18.0	19.0	19.7	20.3	20.8	20.7	20.5	20.0	19.2	18.3	16.8	15.2	14.1	12.9				
Hourly Max	18.7	17.1	17.1	15.9	15.6	15.8	16.6	20.8	23.1	25.1	27.1	28.1	28.1	28.8	29.4	29.7	30.4	29.9	28.7	27.4	25.1	23.3	22.6	20.7				

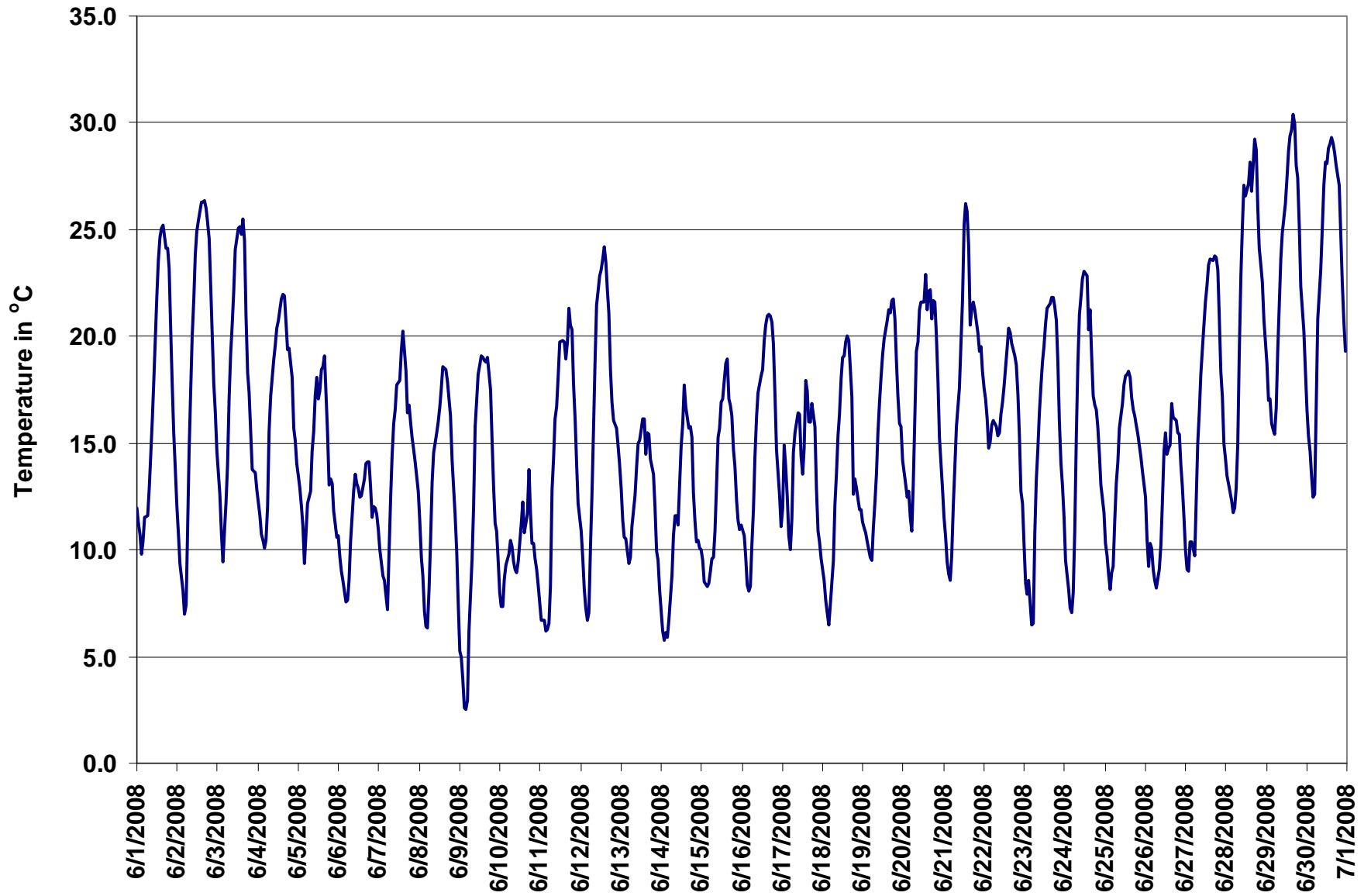


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

PASZA - Henry Pirker Solar Radiation Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

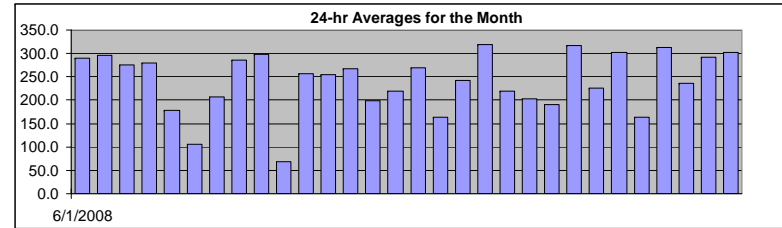
HOURLY AVERAGE TABLE

Solar Radiation (SR)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	828.5	W/m ²	9-Jun	13:00 14:00
Maximum 24-hr Value:	318.1	W/m ²	19-Jun	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	784.1	732.8	459.4	145.1	1.6	0.0	0.0	241.2 W/m ²	145.1 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	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jun-08	0	0	0	0	4	19	62	231	434	558	650	716	760	756	709	653	536	408	274	145	29	4	0	0	289.6	759.6	
2-Jun-08	0	0	0	0	8	34	177	262	441	572	667	732	766	759	655	602	539	416	288	160	27	4	0	0	296.1	766.4	
3-Jun-08	0	0	0	0	8	36	178	268	446	575	669	730	780	502	547	616	441	405	262	129	35	3	0	0	276.3	780.0	
4-Jun-08	0	0	0	0	4	26	124	314	388	582	689	699	554	749	745	656	545	272	168	154	29	3	0	0	279.2	749.3	
5-Jun-08	0	0	0	0	7	36	102	140	320	288	568	504	432	312	574	335	302	188	72	67	20	4	0	0	178.0	573.9	
6-Jun-08	0	0	0	0	16	45	95	172	271	263	349	186	125	95	138	222	243	187	98	32	9	2	0	0	106.2	348.8	
7-Jun-08	0	0	0	0	7	41	141	290	469	557	594	522	450	585	552	306	178	119	92	35	16	2	0	0	206.5	593.8	
8-Jun-08	0	0	0	0	7	45	118	245	452	547	667	664	574	664	714	623	566	449	309	181	30	6	0	0	285.9	713.5	
9-Jun-08	0	0	0	0	7	28	195	300	448	600	697	776	784	828	709	618	482	396	161	76	28	7	0	0	297.6	828.5	
10-Jun-08	0	0	0	0	4	35	64	35	81	109	115	167	177	155	219	46	118	241	66	17	10	2	0	0	69.2	241.3	
11-Jun-08	0	0	0	0	9	34	153	302	466	487	471	624	715	598	606	348	385	473	302	174	30	5	0	0	257.6	715.2	
12-Jun-08	0	0	0	1	7	33	147	247	460	589	685	742	737	736	780	427	223	114	77	59	29	7	0	0	254.2	779.7	
13-Jun-08	0	0	0	0	6	40	79	252	470	600	667	705	670	719	544	328	492	339	254	213	35	6	0	0	267.6	719.2	
14-Jun-08	0	0	0	0	6	52	195	273	293	321	132	463	536	494	718	380	339	280	153	95	40	3	0	0	198.8	717.6	
15-Jun-08	0	0	0	0	3	17	60	80	154	344	600	502	537	561	688	610	299	418	233	114	46	5	0	0	219.7	688.5	
16-Jun-08	0	0	0	1	6	32	187	297	454	593	663	536	459	590	665	540	526	392	304	155	35	6	0	0	268.4	664.9	
17-Jun-08	0	0	1	0	6	29	152	213	281	252	184	169	226	531	619	308	242	339	267	95	4	2	0	0	163.2	619.0	
18-Jun-08	0	0	0	0	15	47	148	307	448	510	526	702	696	556	662	521	409	84	63	69	34	3	0	0	241.8	702.2	
19-Jun-08	0	0	0	0	6	43	201	308	454	593	691	764	796	794	753	675	569	433	316	188	42	8	0	0	318.1	796.4	
20-Jun-08	0	0	0	0	8	41	160	264	451	476	680	621	473	582	318	415	243	108	214	181	30	6	0	0	219.7	680.2	
21-Jun-08	0	0	0	1	10	42	176	221	365	314	522	469	808	728	379	94	190	273	145	81	24	4	0	0	202.0	807.8	
22-Jun-08	0	0	0	0	3	21	57	76	53	132	257	240	391	548	599	571	580	450	328	196	39	7	0	0	189.6	599.3	
23-Jun-08	0	0	0	0	8	45	202	320	460	603	694	756	792	776	731	644	581	457	316	191	42	9	0	0	317.8	792.1	
24-Jun-08	0	0	0	0	11	35	187	330	442	583	681	739	738	420	284	340	287	128	106	67	30	8	0	0	225.6	739.3	
25-Jun-08	0	0	0	0	14	37	192	315	446	591	687	754	786	782	746	657	503	297	255	116	55	11	1	0	301.9	786.5	
26-Jun-08	0	0	0	0	3	16	52	94	168	277	575	629	385	337	286	219	444	160	178	66	41	8	0	0	164.1	629.4	
27-Jun-08	0	0	0	0	7	26	185	307	438	581	675	753	784	789	743	668	565	444	315	189	35	5	0	0	312.9	789.0	
28-Jun-08	0	0	0	0	6	44	109	228	351	487	592	666	488	527	529	324	464	429	296	85	22	3	0	0	235.5	665.9	
29-Jun-08	0	0	0	0	4	35	104	275	426	569	666	733	765	763	724	655	559	365	183	120	46	6	0	0	291.6	765.0	
30-Jun-08	0	0	0	0	6	29	162	300	428	574	673	741	699	774	729	653	548	425	282	165	44	8	0	0	301.7	774.2	
Hourly Avg	0.0	0.0	0.0	0.1	7.3	34.8	138.9	242.3	375.3	470.9	566.2	600.1	596.2	600.4	588.8	468.4	413.3	316.3	212.5	120.5	31.2	5.2	0.0	0.0			
Hourly Max	0.0	0.0	0.5	1.2	16.4	51.9	202.3	329.5	470.4	602.6	697.1	776.0	807.8	828.5	779.7	674.9	580.6	473.3	328.0	213.2	54.5	11.1	0.7	0.0			

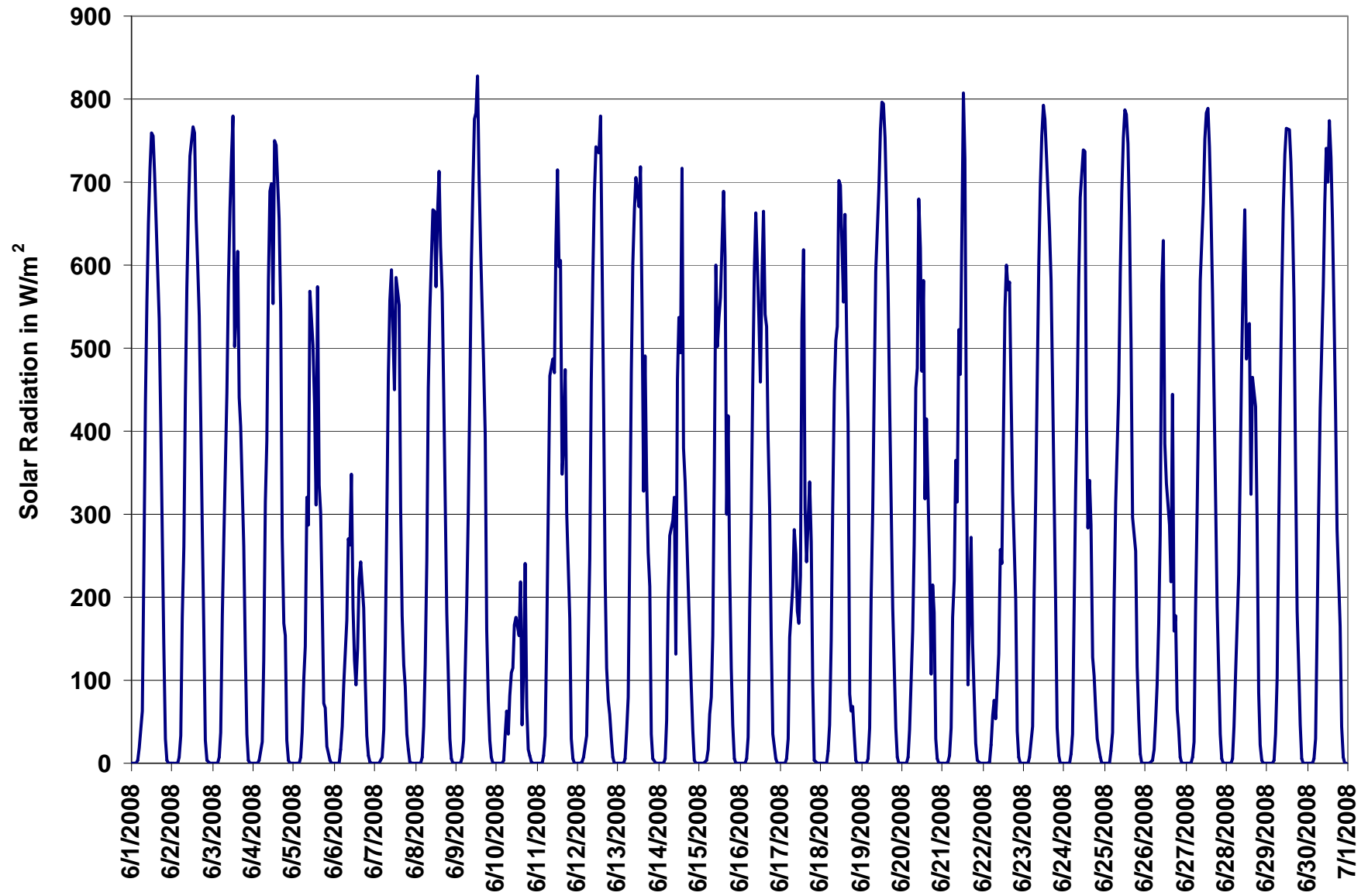


Figure 19. PASZA - Henry Pirker Solar Radiation 1-hr Average Monthly Trend

PASZA - Henry Pirker Scalar Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

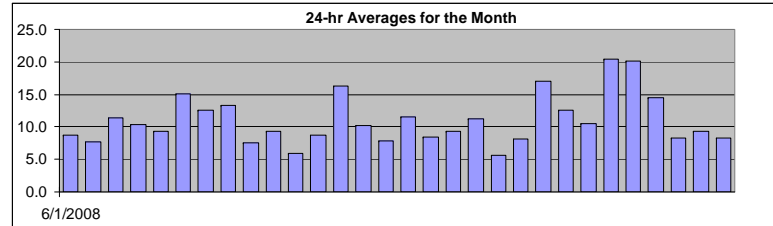
Wind Speed (WSs)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	32.8	km/hr	25-Jun	16:00 17:00
Maximum 24-hr Value:	20.4	km/hr	25-Jun	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	30.5	22.9	14.3	9.4	6.3	3.7	2.8	11.0 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
Hour Start	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-Jun-08	13	17	11	7	8	8	12	15	13	11	9	7	6	7	7	11	7	11	7	7	4	4	5	8	8.8	16.8	
2-Jun-08	6	4	4	4	4	2	4	4	4	4	6	8	11	11	10	11	12	13	13	13	10	11	10	9	7.7	13.4	
3-Jun-08	5	4	5	7	8	10	11	13	14	12	10	7	6	6	8	9	14	29	31	22	17	13	8	7	11.4	31.0	
4-Jun-08	9	11	13	14	9	9	7	6	6	9	12	13	11	14	14	12	12	13	13	10	10	9	7	6	10.4	14.5	
5-Jun-08	6	9	9	8	4	5	5	7	11	14	12	12	13	11	14	6	7	23	15	12	5	6	6	6	9.4	22.8	
6-Jun-08	9	8	9	6	5	9	9	17	20	21	23	22	20	15	16	21	22	21	20	18	14	14	13	12	15.1	23.2	
7-Jun-08	14	11	8	9	7	4	8	15	15	16	17	14	14	15	13	10	15	18	17	16	11	10	12	16	12.6	17.9	
8-Jun-08	15	8	7	7	8	6	7	13	17	18	21	21	18	16	15	16	17	19	19	17	12	9	7	5	13.3	21.2	
9-Jun-08	3	3	4	3	6	5	8	9	7	4	6	6	9	11	12	12	11	11	12	12	9	6	6	6	7.6	12.4	
10-Jun-08	7	5	6	8	8	5	9	11	12	16	16	15	12	12	14	11	4	8	9	6	8	9	7	6	9.3	16.3	
11-Jun-08	6	5	5	3	6	9	6	5	6	5	6	5	5	6	11	8	5	6	7	5	6	6	4	5	5.9	11.3	
12-Jun-08	4	5	3	3	5	4	6	8	10	6	6	8	9	8	7	7	8	12	21	16	11	15	14	12	8.7	20.5	
13-Jun-08	14	15	18	16	15	13	12	14	22	23	24	25	24	21	19	19	15	15	17	14	13	7	10	8	16.3	25.4	
14-Jun-08	9	6	6	6	6	9	11	10	10	12	8	8	11	9	8	11	16	15	17	19	13	7	8	10	10.2	19.3	
15-Jun-08	8	7	7	6	6	6	8	8	7	7	8	9	11	11	8	7	8	11	10	10	8	5	4	6	7.8	11.2	
16-Jun-08	10	8	7	8	6	7	8	14	16	20	20	17	16	15	17	16	17	16	13	13	7	4	2	2	11.6	20.3	
17-Jun-08	5	9	6	7	5	5	3	3	6	8	8	15	16	16	9	9	15	12	10	6	11	5	6	4	8.4	16.4	
18-Jun-08	5	5	6	5	4	4	4	9	9	8	9	10	10	11	10	11	9	11	14	13	14	14	13	14	9.3	14.5	
19-Jun-08	9	10	10	9	9	11	13	18	19	20	18	15	14	14	15	12	10	7	6	7	4	5	6	6	11.2	19.8	
20-Jun-08	5	5	3	5	4	3	4	5	6	6	6	6	6	6	11	7	6	8	7	7	8	5	3	3	5.7	11.2	
21-Jun-08	3	3	3	3	3	5	6	9	7	6	10	9	11	13	13	11	13	9	8	10	10	8	11	10	8.1	13.3	
22-Jun-08	6	6	7	10	11	10	15	15	14	11	14	14	26	28	28	26	29	30	32	27	18	13	8	10	17.0	31.6	
23-Jun-08	9	7	7	8	5	4	4	10	16	20	23	22	23	21	21	19	19	18	16	12	6	4	3	5	12.6	23.4	
24-Jun-08	5	5	4	5	4	5	5	6	5	5	6	8	8	9	18	20	22	17	20	21	16	10	14	14	10.5	22.0	
25-Jun-08	10	13	8	11	12	10	14	19	19	19	21	24	29	32	31	32	33	31	31	26	18	13	14	18	20.4	32.8	
26-Jun-08	18	14	11	19	17	18	19	20	16	18	24	22	22	23	26	27	25	24	27	23	21	17	19	13	20.1	27.4	
27-Jun-08	10	9	9	13	10	5	5	10	18	20	26	23	22	22	21	22	23	20	18	15	7	6	8	5	14.5	26.3	
28-Jun-08	5	6	5	6	4	5	5	7	10	14	13	13	13	11	9	9	10	9	9	5	5	8	7	7	8.2	13.8	
29-Jun-08	6	5	6	7	5	4	5	7	7	8	19	17	15	15	16	15	14	14	10	7	7	5	4	4	9.3	19.0	
30-Jun-08	3	3	4	4	4	4	5	7	9	10	8	9	13	12	13	13	14	16	13	8	7	7	7	8	8.3	15.6	
1-hr Average	7.8	7.5	7.0	7.6	7.0	6.8	8.0	10.5	11.6	12.4	13.6	13.5	14.2	14.1	14.5	13.8	14.4	15.6	15.3	13.4	10.3	8.4	8.3	8.2			
Hourly Max	18.1	16.8	17.5	19.4	17.5	17.7	19.2	20.1	21.6	22.9	26.3	25.4	28.7	31.6	31.4	32.3	32.8	30.5	31.6	27.0	20.6	16.6	19.1	18.2			

PASZA - Henry Pirker Vector Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

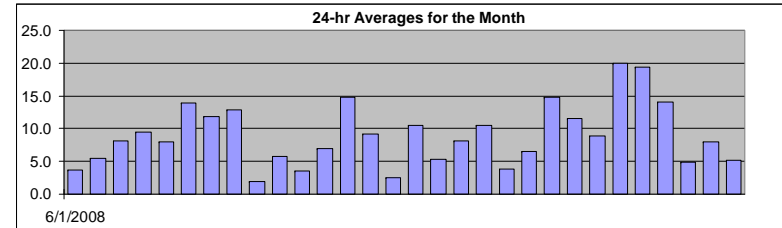
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	32.2	km/hr	25-Jun	16:00 17:00
Maximum 24-hr Value:	20.0	km/hr	25-Jun	



Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	30.2	22.4	13.8	8.8	5.6	2.8	1.2	50.5 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	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-Jun-08	11	17	10	7	8	7	12	14	13	10	7	5	4	4	4	4	5	10	12	7	7	4	3	5	8	3.7	16.6	
2-Jun-08	5	3	3	3	3	1	2	3	3	2	6	7	9	9	9	9	10	12	13	12	10	11	10	9	9	5.5	13.0	
3-Jun-08	5	2	3	6	8	10	11	13	14	12	9	3	2	3	5	7	5	29	30	21	16	13	7	7	8.2	30.4		
4-Jun-08	9	11	13	14	8	9	7	6	5	8	11	12	11	13	14	10	11	11	13	10	9	9	7	6	9.4	14.0		
5-Jun-08	6	9	9	7	3	4	5	7	11	14	11	11	12	10	13	5	4	23	14	12	1	5	5	5	8.0	22.5		
6-Jun-08	8	8	9	6	5	9	9	17	20	21	23	22	20	14	16	21	22	21	20	18	14	14	13	11	13.8	23.0		
7-Jun-08	14	11	8	9	6	4	8	15	14	16	16	14	14	14	12	9	14	17	17	15	11	10	11	16	11.8	17.3		
8-Jun-08	15	8	7	6	7	5	7	13	17	18	20	20	17	15	13	14	16	18	19	17	12	9	7	4	12.8	20.2		
9-Jun-08	2	3	3	3	4	4	7	8	6	2	2	2	6	9	11	11	10	10	12	9	7	3	6	6	1.9	11.6		
10-Jun-08	7	5	3	8	8	4	8	11	12	16	15	11	12	13	6	3	6	5	4	8	9	7	6	6	5.8	16.1		
11-Jun-08	6	4	5	3	6	8	6	4	6	4	5	4	1	4	10	7	3	4	7	4	6	6	4	5	3.5	10.3		
12-Jun-08	4	5	2	1	4	4	5	8	9	6	6	7	6	4	4	6	7	12	18	16	10	15	14	12	6.9	18.3		
13-Jun-08	14	15	17	16	14	12	11	13	21	22	23	25	24	21	18	14	15	14	16	13	13	7	10	8	14.9	25.0		
14-Jun-08	9	6	6	6	6	9	11	10	9	10	8	7	10	7	7	10	15	15	16	19	13	7	7	9	9.2	18.8		
15-Jun-08	8	7	7	5	6	5	8	8	6	7	7	8	10	10	5	5	2	8	10	10	8	5	4	6	2.5	10.1		
16-Jun-08	9	7	6	7	6	7	8	14	15	20	19	17	15	14	16	15	16	15	13	13	7	4	1	1	10.5	20.1		
17-Jun-08	3	7	5	6	4	3	1	3	6	7	6	15	16	15	8	9	10	11	9	6	10	4	6	4	5.3	15.9		
18-Jun-08	5	4	4	5	4	4	3	8	9	7	8	9	9	10	9	9	8	7	12	13	14	14	12	13	8.2	14.2		
19-Jun-08	8	10	10	9	9	11	13	18	19	19	17	14	13	13	13	12	8	6	5	7	4	4	6	6	10.4	19.4		
20-Jun-08	5	4	3	5	4	3	3	5	5	5	4	3	0	4	11	6	4	6	6	7	7	5	2	3	3.9	10.8		
21-Jun-08	2	1	2	2	3	4	6	9	7	5	10	9	10	13	13	4	10	9	8	10	10	8	11	10	6.5	12.8		
22-Jun-08	6	6	6	10	11	10	15	14	14	11	14	14	25	28	27	25	29	30	31	27	18	13	8	10	14.8	31.3		
23-Jun-08	9	7	6	8	4	2	3	10	16	20	22	21	23	21	20	19	18	17	15	11	6	3	3	2	11.6	23.0		
24-Jun-08	5	5	4	4	3	4	5	5	5	4	4	7	3	7	17	19	22	16	20	21	15	9	14	14	8.9	21.5		
25-Jun-08	10	13	8	11	12	10	13	19	18	18	21	24	28	31	31	32	32	30	30	26	18	13	14	18	20.0	32.2		
26-Jun-08	18	13	11	19	17	18	19	20	16	17	24	21	21	23	25	27	24	23	26	23	20	17	19	13	19.4	27.1		
27-Jun-08	10	6	9	13	9	5	4	10	18	19	26	22	21	22	21	22	23	20	17	15	7	6	7	4	14.1	25.7		
28-Jun-08	5	6	5	6	4	5	5	6	9	14	12	12	12	10	8	9	8	7	8	9	5	5	7	7	4.9	13.6		
29-Jun-08	5	5	6	7	4	4	4	7	7	7	19	17	14	14	15	14	14	14	10	7	7	5	2	4	8.0	18.6		
30-Jun-08	2	1	3	4	4	3	5	7	8	10	6	8	12	11	12	13	14	15	12	8	6	7	7	7	5.2	15.1		
1-hr Vector	4.8	4.6	4.5	5.4	4.4	4.6	5.6	7.7	9.0	9.5	10.1	10.0	9.9	9.5	9.5	8.9	10.0	11.2	10.3	8.6	6.0	4.4	4.7	4.7				
Hourly Max	18.0	16.6	17.4	19.3	17.4	17.5	19.1	20.0	21.3	22.4	25.7	25.0	28.3	31.1	30.9	31.8	32.2	30.3	31.3	26.8	20.4	16.5	19.0	18.0				

PASZA - Henry Pirker Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	339.1	307.8	270.8	243.4	208.2	82.1	32.4	251 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jun-08	60	108	92	32	52	90	109	117	135	128	151	132	140	147	207	193	303	325	274	286	292	340	19	37	102	ESE
2-Jun-08	45	34	334	303	298	349	189	221	232	200	125	122	130	116	83	79	92	92	87	87	79	82	81	86	93	E
3-Jun-08	98	120	281	283	242	232	247	262	279	297	287	271	301	25	98	96	203	246	256	254	246	281	255	294	258	WSW
4-Jun-08	242	239	234	243	254	244	264	276	251	208	226	231	239	232	238	230	227	224	197	192	175	164	175	202	226	SW
5-Jun-08	220	237	235	255	350	255	243	222	237	255	273	291	275	263	261	318	296	257	255	249	227	160	152	192	253	WSW
6-Jun-08	229	221	243	242	233	232	232	282	288	294	296	303	298	315	311	302	298	296	296	308	300	290	300	284	289	WNW
7-Jun-08	287	271	272	252	261	265	292	298	295	292	295	296	304	293	292	281	256	232	271	285	288	274	241	243	278	W
8-Jun-08	252	266	246	256	264	283	244	239	250	246	247	244	248	252	248	250	244	264	273	281	278	262	262	320	256	WSW
9-Jun-08	284	283	280	318	293	241	227	215	205	170	85	14	119	108	80	86	69	58	58	137	210	220	208	278	126	SE
10-Jun-08	289	283	33	77	66	46	350	332	334	313	326	325	312	304	277	282	359	325	265	177	228	232	235	234	308	NW
11-Jun-08	257	259	244	216	227	243	256	260	228	234	245	264	281	281	347	323	254	251	274	269	133	107	123	153	253	WSW
12-Jun-08	147	117	177	71	122	182	211	220	235	252	247	264	239	297	187	210	226	251	231	264	269	246	241	245	236	SW
13-Jun-08	246	242	238	236	230	224	237	227	232	232	245	244	238	238	221	227	267	284	306	307	307	288	245	245	246	WSW
14-Jun-08	256	266	218	192	214	238	240	254	251	244	281	243	253	257	225	218	208	222	228	284	288	281	289	228	245	WSW
15-Jun-08	234	265	282	246	242	246	234	238	267	279	276	275	283	297	292	310	94	96	70	96	97	98	136	166	257	WSW
16-Jun-08	210	200	182	192	216	202	211	237	242	243	246	253	267	244	261	258	255	248	253	281	287	316	327	202	245	WSW
17-Jun-08	241	249	243	269	206	208	323	265	296	283	203	194	181	187	223	192	270	288	273	271	335	32	164	150	235	SW
18-Jun-08	184	218	202	258	293	239	198	230	224	217	226	222	212	227	232	254	266	275	154	199	214	220	234	240	225	SW
19-Jun-08	219	213	210	218	219	222	226	236	239	249	240	226	225	236	236	228	202	233	296	306	311	247	267	244	234	SW
20-Jun-08	269	267	220	243	283	313	245	261	236	215	224	172	0	168	161	166	192	189	188	197	209	236	296	113	213	SSW
21-Jun-08	115	295	143	121	91	108	113	97	115	113	102	97	89	94	86	53	345	23	44	54	48	59	82	88	77	ENE
22-Jun-08	76	77	132	228	230	242	280	280	292	277	290	281	273	263	255	256	245	243	259	258	243	237	225	238	257	WSW
23-Jun-08	244	260	219	236	174	147	182	240	241	235	245	249	249	247	258	265	264	267	280	294	298	248	202	255	251	WSW
24-Jun-08	294	303	269	291	292	297	290	292	263	220	175	193	157	227	238	263	287	222	236	246	237	211	236	239	245	WSW
25-Jun-08	232	236	226	233	236	222	242	246	236	228	246	258	259	262	264	259	259	256	260	253	252	259	246	260	251	WSW
26-Jun-08	271	269	278	253	244	241	240	235	227	229	241	261	264	275	266	257	270	261	242	240	239	239	241	235	251	WSW
27-Jun-08	232	272	262	250	275	317	235	235	240	228	255	250	248	247	249	248	251	247	241	253	273	253	266	205	249	WSW
28-Jun-08	176	150	135	141	109	109	137	151	155	166	172	204	211	201	197	155	157	257	293	286	277	298	263	292	194	SSW
29-Jun-08	295	259	266	274	274	147	157	187	229	224	253	253	244	256	264	299	277	281	283	276	295	295	258	263	261	W
30-Jun-08	177	266	317	265	285	208	265	279	229	310	292	278	293	301	310	302	308	322	343	28	67	82	88	90	312	NW
Hourly Avg	244	243	237	244	244	232	238	245	248	246	251	253	252	253	253	256	259	259	260	263	260	250	238	239		

PASZA - Henry Pirker Standard Deviation of Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	86.7	62.9	27.6	16.7	10.9	6.5	5.4

Status Flag Characters

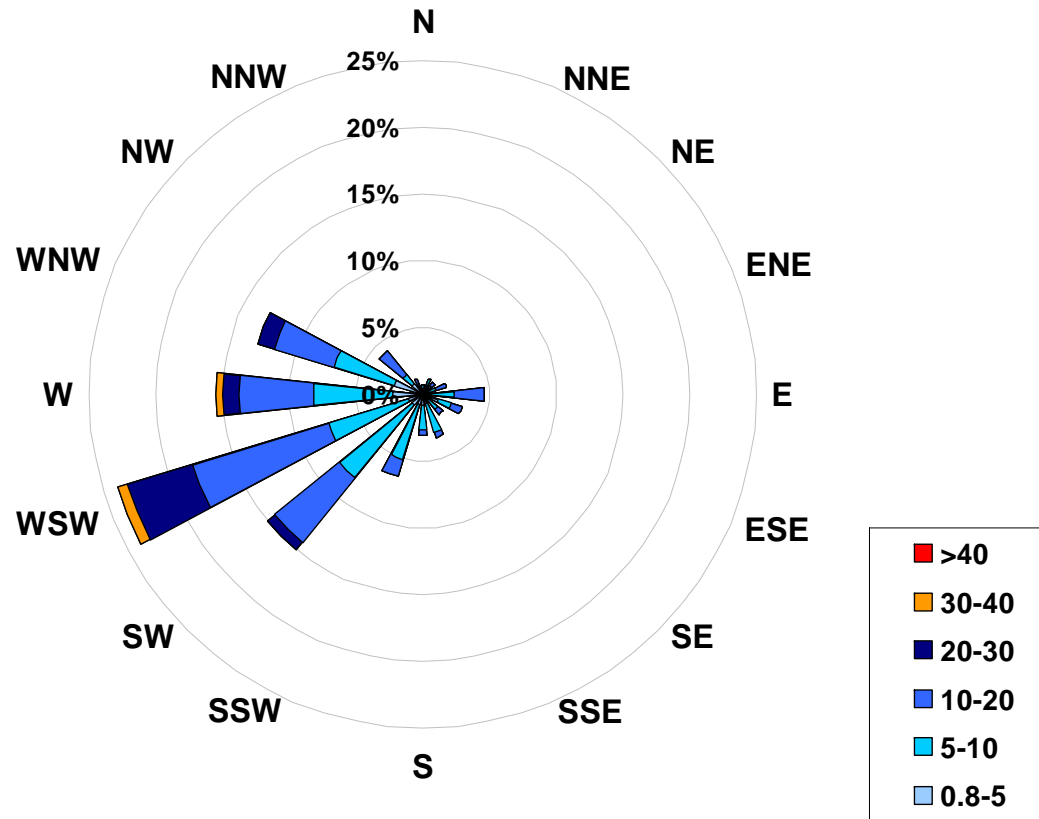
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

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-Jun-08	32	8	22	19	21	15	10	11	15	21	41	58	59	56	59	79	65	16	23	15	14	39	30	18		79.5	
2-Jun-08	25	49	21	34	28	90	51	47	49	75	34	26	36	35	37	35	33	17	15	9	6	5	5	5		90.5	
3-Jun-08	49	53	46	11	27	10	10	9	12	16	26	84	91	79	63	48	72	7	11	14	13	9	22	20		90.8	
4-Jun-08	12	11	8	6	31	12	20	21	44	26	24	16	21	24	21	29	23	31	16	16	17	15	20	11		43.9	
5-Jun-08	13	8	8	34	51	35	29	12	16	12	18	18	16	21	24	47	61	10	21	11	94	27	17	28		93.6	
6-Jun-08	7	9	10	21	20	10	12	11	8	9	8	6	7	14	8	6	6	6	7	7	6	6	6	10		20.7	
7-Jun-08	7	6	8	8	27	40	10	10	11	11	13	14	14	17	18	23	18	14	8	7	5	15	9	6		39.8	
8-Jun-08	7	9	25	24	29	30	25	8	10	11	16	18	20	26	30	30	18	18	12	8	5	9	13	15		30.0	
9-Jun-08	44	27	29	33	42	22	18	16	19	80	76	89	61	37	30	21	23	24	17	46	36	64	28	14		88.7	
10-Jun-08	14	13	68	8	16	21	26	8	12	7	9	8	20	15	11	75	52	41	87	56	9	10	15	21		86.8	
11-Jun-08	12	23	17	24	15	9	12	28	18	39	47	42	87	65	32	35	62	62	23	30	33	8	19	14		86.7	
12-Jun-08	17	22	52	92	28	26	19	15	13	32	30	40	52	81	66	56	24	22	27	9	10	6	5	9		91.6	
13-Jun-08	8	6	6	6	14	10	12	13	11	12	14	11	11	13	21	46	21	15	16	18	9	12	10	12		46.2	
14-Jun-08	10	24	28	8	19	10	12	19	26	30	26	33	24	37	39	32	14	13	11	14	7	21	31	15		39.4	
15-Jun-08	11	17	8	30	14	20	15	11	22	21	28	23	27	26	63	55	81	51	17	16	12	21	36	25		80.7	
16-Jun-08	15	14	17	16	11	12	16	11	12	9	14	16	18	23	20	19	17	17	17	10	7	16	76	80		79.6	
17-Jun-08	58	52	35	35	49	62	72	33	23	24	49	14	14	16	26	27	53	16	18	16	24	40	29	18		72.3	
18-Jun-08	18	25	44	25	28	35	43	17	19	27	23	27	35	25	36	28	24	53	33	10	11	8	10	8		52.7	
19-Jun-08	18	9	8	12	8	8	9	10	8	12	15	20	24	23	24	20	34	43	37	16	25	29	7	11		43.2	
20-Jun-08	33	28	25	14	21	27	39	16	23	33	58	78	97	61	17	35	46	44	28	28	15	20	25	40		96.7	
21-Jun-08	22	89	83	61	22	15	19	15	27	50	18	20	17	16	20	79	41	18	11	10	11	12	7	7		89.1	
22-Jun-08	17	13	29	12	8	18	5	6	7	7	9	9	12	10	11	14	11	9	7	7	6	11	10	10		28.9	
23-Jun-08	12	9	23	13	38	75	55	13	11	10	14	13	12	12	13	14	12	14	11	11	20	26	18	72		74.7	
24-Jun-08	12	13	39	19	28	22	13	18	30	44	54	39	82	46	22	15	12	25	12	6	11	16	7	6		82.4	
25-Jun-08	9	6	9	11	8	7	13	12	12	14	11	14	10	10	9	10	11	7	7	8	6	9	12	9		14.5	
26-Jun-08	6	7	10	6	6	8	6	6	9	9	9	16	13	9	9	9	11	13	7	6	7	5	4	8		15.9	
27-Jun-08	10	42	11	8	40	14	64	14	13	14	13	12	16	14	15	11	11	13	13	13	10	19	15	24		64.0	
28-Jun-08	23	7	11	10	23	12	19	26	15	10	18	19	24	20	26	16	19	54	23	10	8	18	20	8		53.9	
29-Jun-08	14	15	14	4	32	37	23	27	30	12	14	22	17	20	24	19	11	9	8	12	18	57	15			56.5	
30-Jun-08	65	74	43	26	24	21	23	9	16	15	52	39	26	24	21	18	12	14	27	17	27	12	11	11		74.3	

Hourly Max	65	89	83	92	51	90	72	47	49	80	76	89	97	81	66	79	81	62	87	56	94	64	76	80
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1-hr Average Wind Rose (in km/hr) Located at the Henry Pirker Site for June 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	92
5	to	10	292
10	to	20	267
20	to	30	60
30	to	40	9
	>	40	0
Total Non-Zero Values			720

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

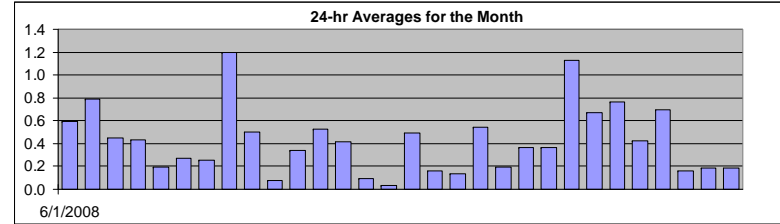
Sulphur Dioxide (SO₂)

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Summary

Number of 1-hr Exceedances:	0				
Number of 24-hr Exceedances:	0				
Maximum 1-hr Average:	7.2	ppb	2-Jun	11:00	12:00
Maximum 24-hr Average:	1.2	ppb	8-Jun		



AIC Time:	32 hrs	Operational Time:	682 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	4.2	2.3	0.3	0.1	0.1	0.0	0.0	0.4 ppb	0.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
1-Jun-08	0	0	0	0	0	0	A	0	7	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.6	6.6
2-Jun-08	0	0	0	0	0	A	0	1	1	3	4	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0.8	7.2
3-Jun-08	0	0	0	0	A	0	2	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0.5	5.3	
4-Jun-08	0	0	0	A	0	0	0	1	1	0	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0.4	1.4
5-Jun-08	0	0	A	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
6-Jun-08	0	A	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.9
7-Jun-08	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2	0	0	0	0	A	0.3	1.7	
8-Jun-08	0	0	0	0	0	0	1	4	4	2	1	2	2	4	0	1	3	2	1	0	0	0	A	0	1.2	4.3	
9-Jun-08	0	0	0	0	0	0	0	1	3	5	0	1	0	0	0	0	0	0	0	0	0	A	0	0	0.5	4.8	
10-Jun-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.1	0.1	
11-Jun-08	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	1	A	0	0	0	0	0.3	2.5	
12-Jun-08	0	0	0	0	0	0	0	0	2	3	3	1	1	0	0	0	0	0	A	0	0	0	0	0	0.5	2.8	
13-Jun-08	0	0	0	0	0	0	0	0	1	3	0	1	1	0	0	1	A	0	0	0	0	0	0	0	0.4	3.0	
14-Jun-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.1	0.2	
15-Jun-08	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	
16-Jun-08	0	0	0	0	0	0	0	0	0	0	5	0	1	1	A	0	2	2	0	0	0	0	0	0	0.5	4.7	
17-Jun-08	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	1	0	0	0	0	0	0	0	0	0.2	0.6	
18-Jun-08	0	0	0	0	0	0	0	0	0	0	1	0	A	1	C	C	C	0	0	0	0	0	0	0	0.1	0.6	
19-Jun-08	0	0	0	0	0	A	0	0	2	3	1	0	1	2	1	2	0	0	0	0	0	0	0	0	0.5	2.8	
20-Jun-08	0	0	0	0	A	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0.2	1.0	
21-Jun-08	0	0	0	A	0	0	0	2	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.9	
22-Jun-08	0	0	A	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0.4	3.9	
23-Jun-08	0	A	0	0	0	0	0	0	3	3	4	3	2	3	2	3	1	1	0	0	0	0	0	0	1.1	3.6	
24-Jun-08	A	0	0	0	0	0	1	1	3	3	1	1	0	0	C	C	C	0	0	0	0	0	0	0	0.7	3.3	
25-Jun-08	0	0	0	0	0	A	1	1	2	2	0	0	1	2	0	1	0	0	4	2	0	0	0	0	0.8	3.5	
26-Jun-08	0	0	0	0	A	0	0	0	0	0	0	0	2	0	1	2	0	4	0	0	0	0	0	0	0.4	3.7	
27-Jun-08	0	0	0	A	0	0	0	0	2	2	0	1	5	0	2	0	0	0	0	0	0	0	0	0	0.7	4.9	
28-Jun-08	0	0	A	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5	
29-Jun-08	0	A	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.2	
30-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.4	
Hourly Avg	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.6	1.2	1.3	0.9	0.7	0.8	0.8	0.4	0.5	0.4	0.6	0.3	0.1	0.1	0.1	0.1	0.1			
Hourly Max	0.4	0.3	0.2	0.3	0.3	0.3	1.9	3.7	6.6	4.8	4.7	7.2	4.9	4.1	2.5	2.8	2.5	5.3	3.5	1.5	0.4	0.5	0.3	0.3			

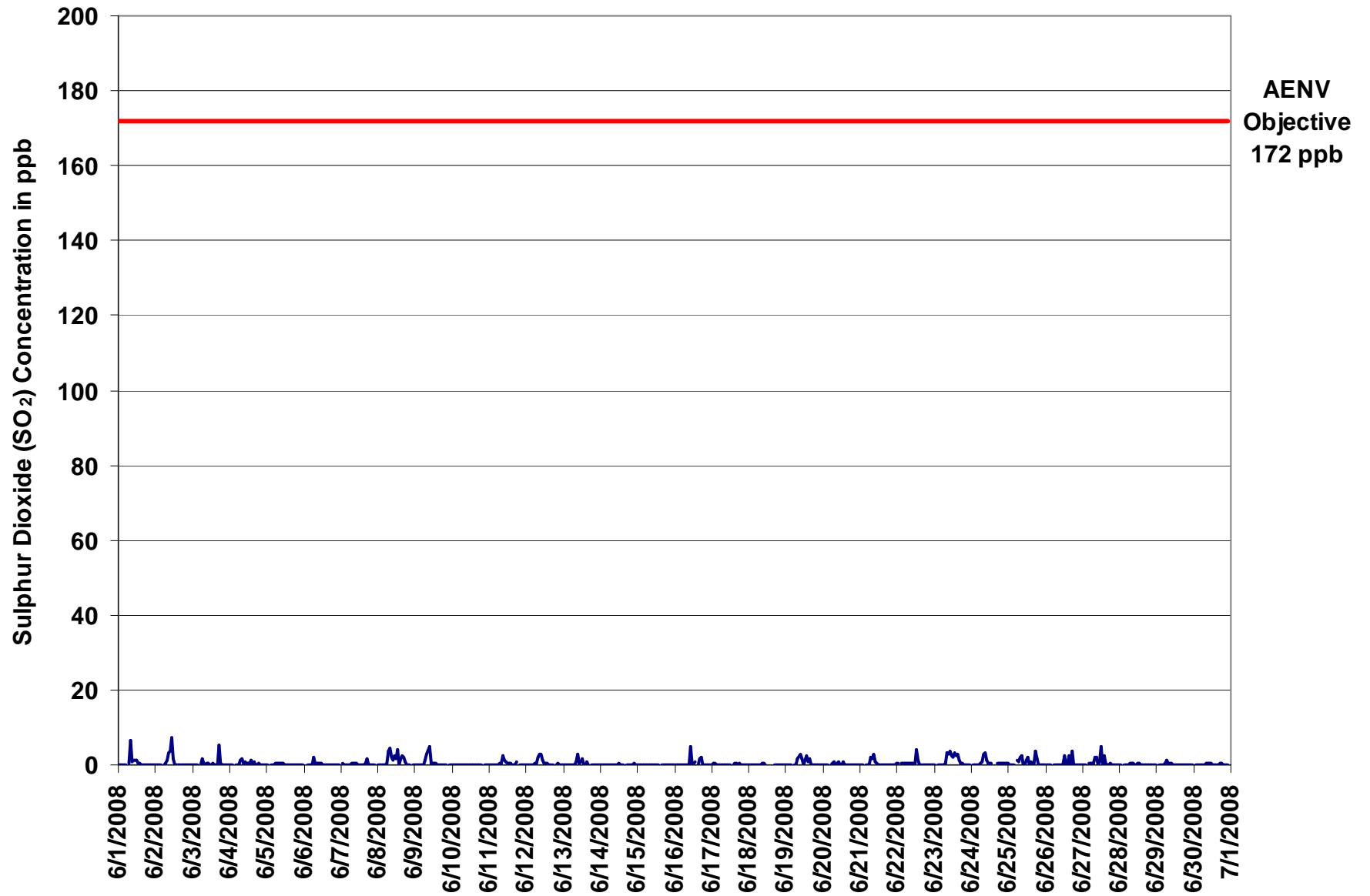


Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

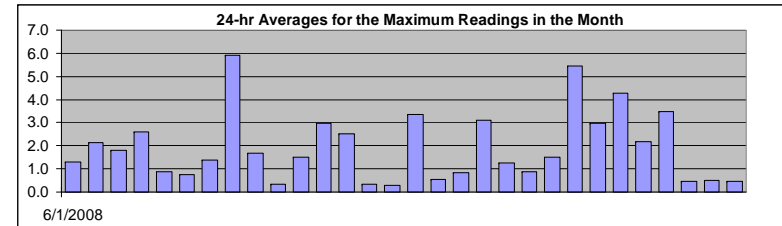
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	21.0	ppb	16-Jun	17:00 18:00
Maximum 24-hr Value:	5.9	ppb	8-Jun	



AIC Time:	32 hrs	Operational Time:	682 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	16.1	10.9	0.8	0.4	0.3	0.2	0.1	1.9 ppb	0.4 ppb

Status Flag Characters

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

Day Mountain Standard Time

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-Jun-08	0	0	0	0	0	0	A	4	10	2	3	2	3	2	0	0	0	0	0	1	0	0	0	0	1.3	9.9
2-Jun-08	0	0	0	0	0	A	0	3	3	8	9	15	4	1	1	0	0	0	0	0	0	0	0	0	2.1	14.8
3-Jun-08	0	0	0	0	A	0	7	1	0	4	7	1	0	0	0	1	0	16	1	0	1	0	0	0	1.8	15.8
4-Jun-08	0	0	0	A	0	0	0	9	6	1	6	5	2	1	8	9	8	0	0	1	0	0	0	0	2.6	9.1
5-Jun-08	0	1	A	0	0	0	2	3	2	1	0	4	2	0	0	1	0	0	0	0	0	0	0	0	0.9	4.1
6-Jun-08	0	A	A	0	0	0	5	3	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0.7	4.6
7-Jun-08	A	1	0	0	0	0	0	0	3	4	1	0	0	0	0	0	7	9	1	0	0	0	0	A	1.4	8.8
8-Jun-08	0	0	0	0	0	0	4	10	11	10	7	12	9	16	0	10	13	14	16	0	0	0	A	0	5.9	16.4
9-Jun-08	0	0	0	0	0	1	2	8	8	12	1	3	1	1	0	0	0	0	0	0	0	A	0	0	1.7	11.9
10-Jun-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.4
11-Jun-08	0	0	0	0	0	0	1	1	2	9	3	2	1	1	1	0	2	0	7	A	0	0	0	0	1.5	9.3
12-Jun-08	0	0	0	0	8	0	1	0	8	11	11	8	4	6	4	1	0	0	A	0	3	0	0	0	3.0	11.3
13-Jun-08	0	0	0	0	0	0	0	0	8	17	0	11	10	0	0	6	0	A	0	0	0	0	0	0	2.5	16.5
14-Jun-08	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	A	0	0	0	0	0	1	0	0.3	0.6
15-Jun-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.3	0.3
16-Jun-08	0	0	0	0	0	0	1	2	0	4	20	0	9	7	A	0	9	21	0	0	0	0	0	0	3.4	21.0
17-Jun-08	0	0	0	0	0	0	0	0	0	0	1	0	0	A	0	4	0	0	1	0	0	0	0	0	0.6	3.8
18-Jun-08	0	0	0	0	0	0	1	0	0	3	3	0	A	5	C	C	C	0	0	0	0	0	0	0	0.8	4.8
19-Jun-08	0	0	0	0	0	A	0	0	10	8	12	0	14	12	3	7	0	0	1	0	0	0	0	0	3.1	14.5
20-Jun-08	1	0	0	0	A	0	7	2	1	2	7	1	0	6	0	0	0	0	0	0	0	0	0	0	1.3	6.8
21-Jun-08	0	0	0	A	0	0	1	3	3	6	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0.9	5.6
22-Jun-08	1	0	A	1	0	1	0	1	0	0	0	0	0	17	9	0	0	0	0	0	0	0	0	0	1.5	16.8
23-Jun-08	0	A	0	0	0	0	1	5	12	10	14	14	8	11	9	11	11	9	8	0	0	0	0	0	5.5	14.3
24-Jun-08	A	0	0	0	0	0	2	5	9	12	7	16	1	1	C	C	C	1	1	1	1	1	1	1	3.0	16.0
25-Jun-08	0	0	0	1	0	A	5	3	11	19	0	0	8	12	0	4	8	5	9	9	0	0	0	0	4.3	18.9
26-Jun-08	0	0	0	0	A	0	0	0	0	0	0	2	9	0	8	11	2	12	0	0	0	0	0	1	2.2	11.8
27-Jun-08	0	0	1	A	1	1	1	1	15	14	0	5	15	1	17	6	1	1	1	1	0	1	1	1	3.5	17.5
28-Jun-08	0	0	A	0	0	0	1	1	1	1	0	1	1	1	0	0	1	0	0	0	0	0	0	1	0.5	1.1
29-Jun-08	1	A	0	1	0	0	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	2.1
30-Jun-08	A	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	A	0.5	1.3
Hourly Avg	0.4	0.4	0.3	0.4	0.6	0.4	1.5	2.4	4.3	5.3	3.9	3.5	3.6	3.6	2.5	2.8	2.5	3.2	1.7	0.7	0.4	0.3	0.3	0.4		
Hourly Max	0.5	0.7	0.5	0.7	7.9	0.6	7.4	9.6	15.3	18.9	19.8	16.0	14.8	16.8	17.5	11.1	13.4	21.0	15.8	9.5	3.1	0.7	0.7	1.1		

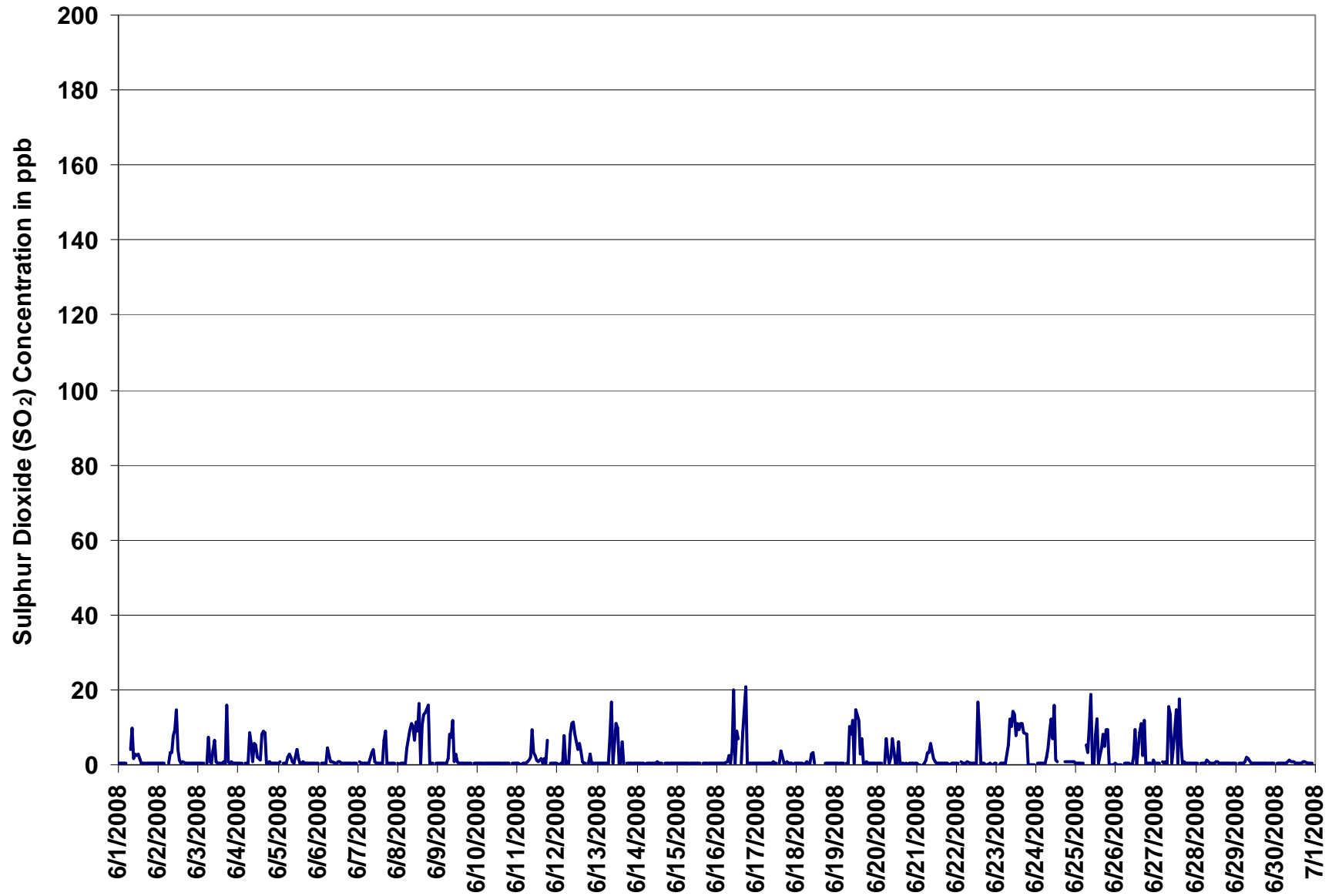
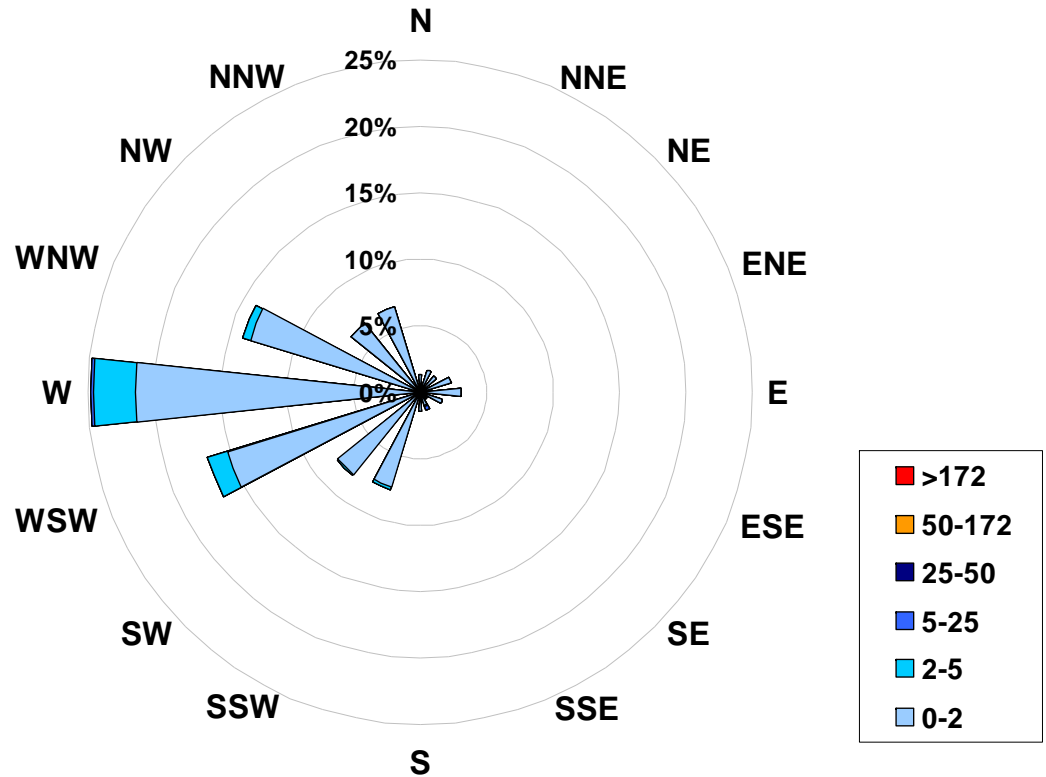


Figure 21. PASZA - Evergreen Park Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Evergreen Park Site for June 2008



Calms: 0%

Frequency Distribution of SO ₂ in ppb Range			Frequency (hrs)
0.0	<	2	640
2	to	5	39
5	to	25	3
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			682

PASZA - Evergreen Park Total Reduced Sulphur Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

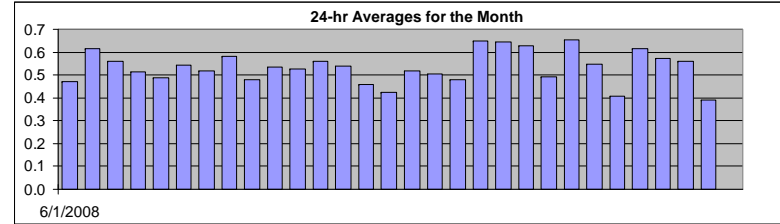
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Maximum 1-hr Average:	2.2	ppb	21-Jun	9:00 10:00
Maximum 24-hr Value:	0.7	ppb	23-Jun	



AIC Time:	30 hrs	Operational Time:	657 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	96.3%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.1	0.9	0.6	0.5	0.4	0.3	0.2	0.5 ppb	0.5 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
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-Jun-08	0	0	0	0	0	0	A	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0.5	0.8	
2-Jun-08	1	1	1	1	1	A	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.6	1.0	
3-Jun-08	0	0	1	1	A	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	1	1	1	0.6	1.0	
4-Jun-08	0	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.5	0.8	
5-Jun-08	0	0	A	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	1	1	1	0	0.5	0.7	
6-Jun-08	0	A	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0.5	0.8	
7-Jun-08	A	1	1	1	0	1	1	1	0	0	1	0	0	0	0	1	0	1	0	0	1	1	1	A	0.5	0.6	
8-Jun-08	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	A	0	0.6	1.1	
9-Jun-08	0	0	0	1	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0.5	1.0	
10-Jun-08	1	1	1	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0	0	0.5	0.7	
11-Jun-08	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0	1	1	A	0	1	1	1	0.5	0.9	
12-Jun-08	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.6	0.8	
13-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	A	0	0	0	1	0	1	0.5	0.8	
14-Jun-08	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	A	0	0	0	0	1	1	0	0.5	0.6	
15-Jun-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.4	0.5	
16-Jun-08	0	0	0	0	0	0	0	0	1	1	1	0	1	1	A	1	1	1	0	0	1	1	1	1	0.5	0.8	
17-Jun-08	0	0	1	0	0	0	1	1	1	0	0	0	0	A	0	1	1	1	1	0	0	1	1	1	0.5	0.6	
18-Jun-08	1	1	0	0	1	1	0	0	1	1	A	1	C	C	C	0	0	0	0	0	0	0	0	0	0.5	0.6	
19-Jun-08	0	0	0	0	0	A	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0	
20-Jun-08	1	1	0	0	A	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.9	
21-Jun-08	1	0	0	A	0	0	0	0	1	2	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0.6	2.2	
22-Jun-08	0	0	A	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	1	1	1	1	1	0	0.5	0.6	
23-Jun-08	0	A	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0.7	1.4	
24-Jun-08	A	1	0	0	0	1	1	1	1	1	1	1	C	C	C	0	0	1	1	1	0	1	1	0	0.5	0.8	
25-Jun-08	0	0	1	1	1	A	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.4	0.9	
26-Jun-08	0	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0.6	1.1	
27-Jun-08	0	0	0	A	0	0	1	1	1	1	0	1	1	0	1	1	0	0	0	0	0	0	1	0	0.6	1.5	
28-Jun-08	0	0	A	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.6	1.4	
29-Jun-08	2	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	0.4	1.9	
30-Jun-08	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	0.4	1.9
Hourly Avg	0.5	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Hourly Max	1.9	0.6	0.8	1.0	0.8	0.6	1.0	1.1	1.1	2.2	1.4	1.0	1.5	1.3	1.1	1.1	0.8	1.0	0.9	0.9	1.1	1.0	0.8	1.4	0.5	0.5	

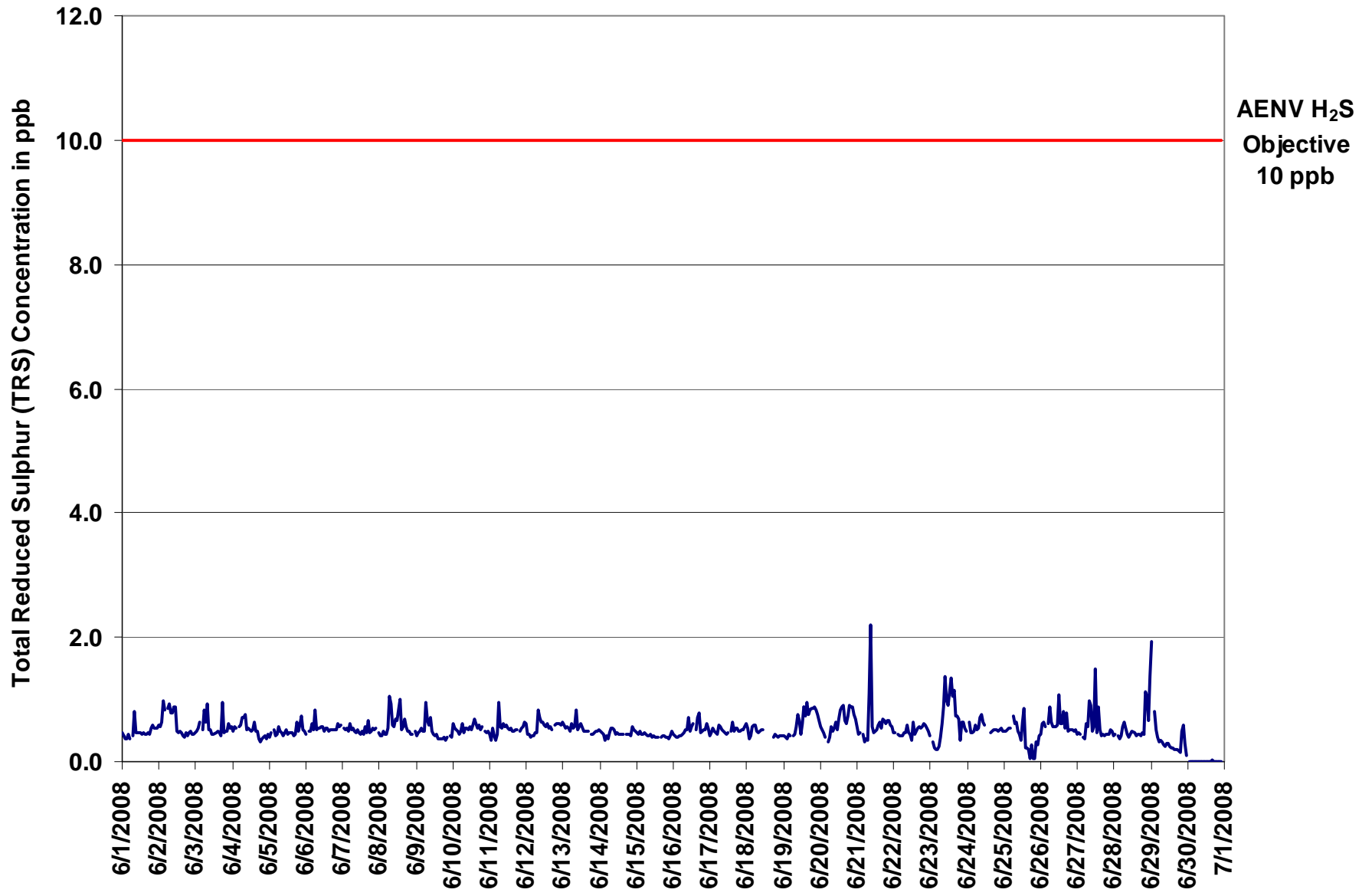


Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

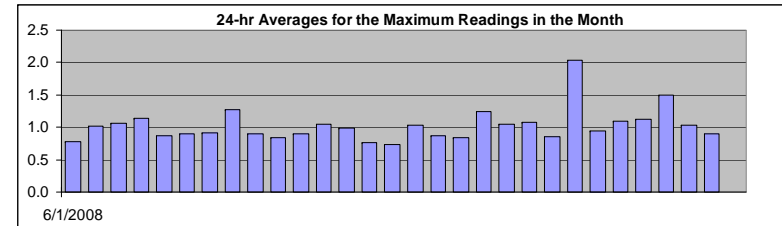
Total Reduced Sulphur (TRS)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	6.1	ppb	27-Jun	8:00 9:00
Maximum 24-hr Value:	2.0	ppb	23-Jun	

AIC Time:	30 hrs	Operational Time:	657 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	96.3%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.9	2.2	1.0	0.8	0.7	0.6	0.5	1.0 ppb	0.8 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	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-Jun-08	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.2		
2-Jun-08	1	1	1	2	1	A	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.0		
3-Jun-08	1	1	1	1	A	1	2	2	2	1	2	1	1	1	1	1	3	1	1	1	1	1	1	1	1.1	2.7		
4-Jun-08	1	1	1	A	1	1	1	2	2	1	1	2	1	1	2	2	2	1	1	1	1	1	1	1	1.1	2.3		
5-Jun-08	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2		
6-Jun-08	1	A	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.9		
7-Jun-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	A	0.9	1.9		
8-Jun-08	1	1	1	1	1	1	1	2	2	2	1	2	1	3	1	1	2	1	1	1	1	1	A	1	1.3	2.7		
9-Jun-08	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.9	2.3		
10-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	1.1		
11-Jun-08	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.9	2.5		
12-Jun-08	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	A	1	3	1	1	1	1.1	3.1		
13-Jun-08	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1.0	2.3		
14-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.8	1.0		
15-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.7	0.9		
16-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	2	1	A	1	2	4	1	1	1	1	1	1	1.0	4.0		
17-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	2	1	1	1	1	1	1	1	1	0.9	1.6		
18-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	A	1	C	C	C	1	1	1	1	1	1	1	0.8	1.3		
19-Jun-08	1	1	1	1	1	A	1	1	1	2	2	1	2	2	1	2	1	1	2	1	1	1	1	1	1.2	2.5		
20-Jun-08	1	1	1	1	A	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1.0	1.5		
21-Jun-08	1	1	1	A	1	1	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	3.0		
22-Jun-08	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.5		
23-Jun-08	1	A	1	1	1	0	1	1	2	4	4	4	3	4	3	4	4	3	2	1	1	1	1	1	2.0	4.5		
24-Jun-08	A	1	1	1	1	1	1	1	1	2	1	1	C	C	C	1	1	1	1	1	1	1	1	1	1.0	1.5		
25-Jun-08	1	1	1	1	1	A	2	1	1	1	1	1	2	3	1	1	1	1	2	1	1	1	1	1	1.1	3.3		
26-Jun-08	1	1	1	1	A	1	1	1	1	1	1	1	3	1	2	1	1	2	1	1	1	1	1	1	1.1	2.8		
27-Jun-08	1	1	1	A	1	1	1	1	6	4	1	1	4	1	4	2	1	1	1	1	1	1	1	1	1.5	6.1		
28-Jun-08	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	3	1.0	3.3		
29-Jun-08	4	A	2	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	0	3	N	N	N	0.9	3.7		
30-Jun-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
Hourly Avg	0.9	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.4	1.3	1.2	1.1	1.2	1.2	1.1	1.2	1.1	1.2	0.9	0.8	1.0	0.9	0.9	1.0				
Hourly Max	3.7	1.0	1.7	1.6	1.2	1.1	2.5	2.3	6.1	3.7	4.4	3.9	3.7	4.5	3.9	3.9	4.5	4.0	2.2	1.3	3.1	2.2	1.1	3.3				

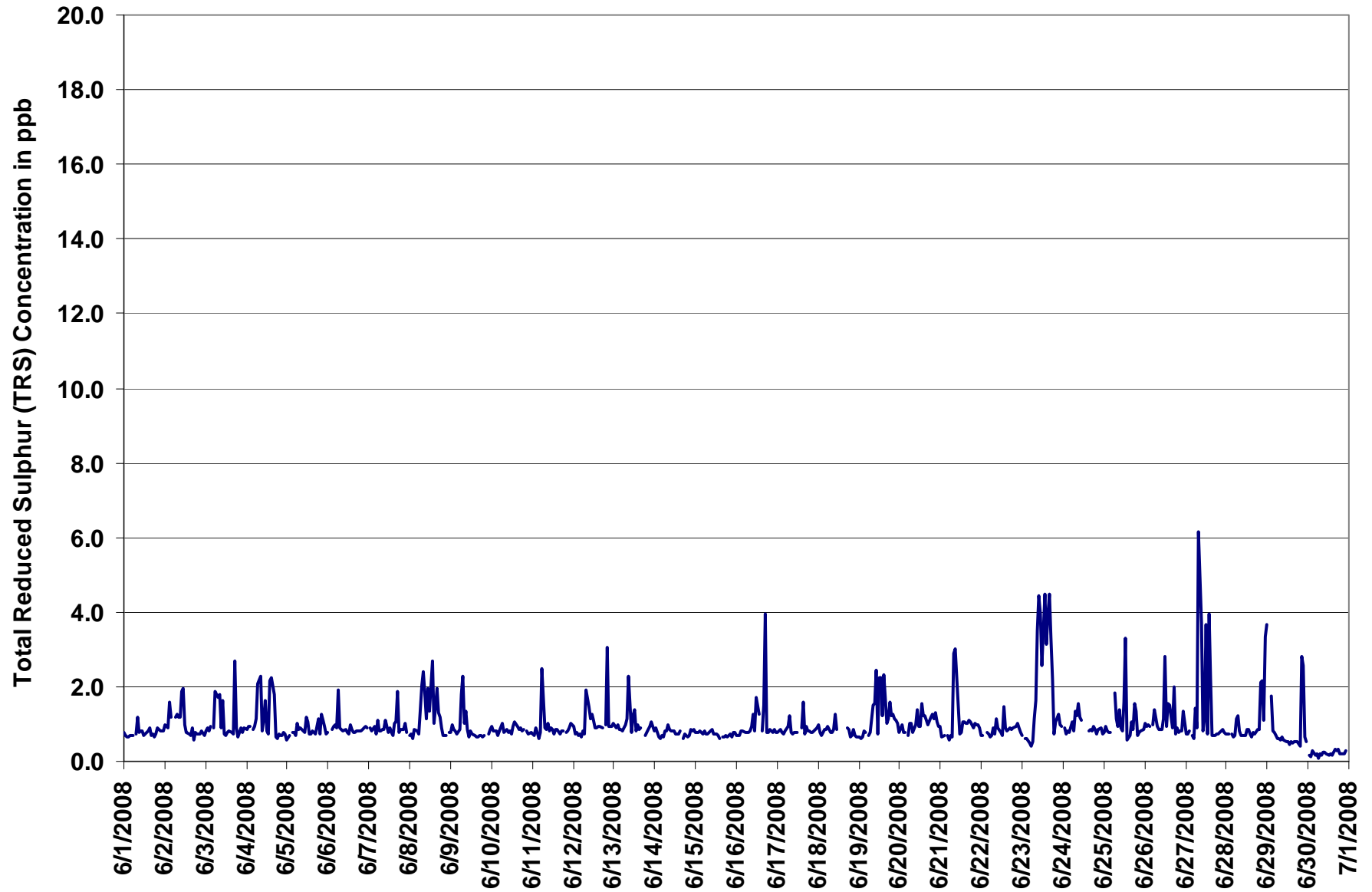
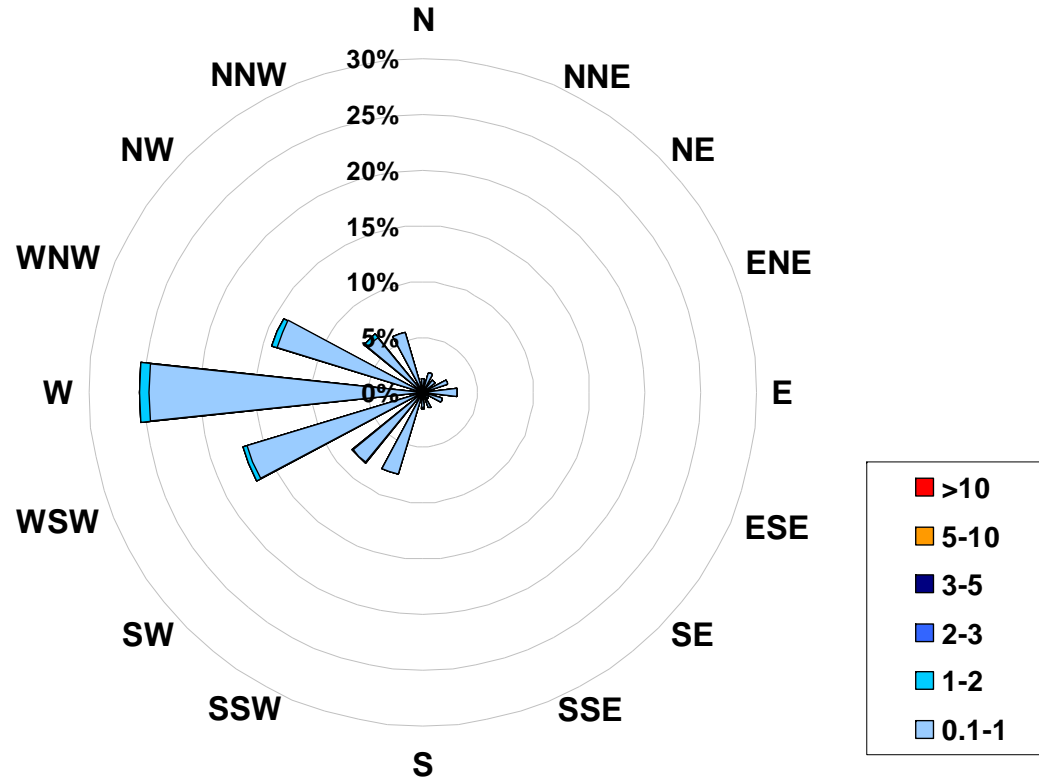


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Evergreen Park Site for June 2008**



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	643
1	to	2	13
2	to	3	1
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			657

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

Station: Evergreen Park
 Station Owner: PASZA

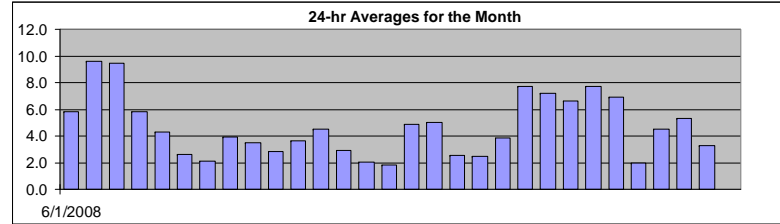
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: June 1, 2008 to July 1, 2008

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:	63.8	µg/m ³	3-Jun 17:00 18:00
Maximum 24-hr Value:	9.6	µg/m ³	2-Jun



AIC Time:	0 hrs	Operational Time:	686 hrs							
Calibration Time:	6 hrs	AMD Operational Uptime:	96.1%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	21.1	14.0	6.3	3.3	1.5	0.0	0.0	4.7	3 µg/m ³	4.2 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-Jun-08	4	1	2	3	3	3	2	3	5	4	5	5	4	2	3	2	4	4	5	6	13	17	24	15	5.8	24.3		
2-Jun-08	13	10	11	14	15	19	15	27	21	28	6	5	5	1	3	1	1	2	3	5	7	5	5	7	9.6	28.3		
3-Jun-08	7	7	10	8	8	13	22	9	10	4	4	3	4	2	2	4	13	64	22	4	1	2	2	3	9.4	63.8		
4-Jun-08	4	4	4	4	5	11	10	17	12	5	8	4	5	3	6	7	6	4	4	1	6	5	0	3	5.8	17.3		
5-Jun-08	0	0	1	1	2	5	14	7	17	9	3	2	4	2	3	0	3	15	5	3	1	4	2	2	4.3	16.5		
6-Jun-08	1	0	0	0	0	1	14	2	5	3	2	3	3	8	5	2	1	2	2	2	3	1	1	1	2.6	13.7		
7-Jun-08	1	2	2	1	2	3	4	4	1	0	1	0	3	1	2	2	6	11	0	0	1	1	0	0	2.1	11.2		
8-Jun-08	0	1	1	1	1	2	4	20	12	6	2	7	5	15	0	2	6	3	1	0	0	1	1	2	3.9	20.3		
9-Jun-08	1	1	1	1	2	5	8	8	11	17	0	0	0	0	0	1	0	0	4	8	4	6	4	3	3.5	16.8		
10-Jun-08	2	3	2	4	5	7	4	4	5	2	4	3	3	3	4	4	2	3	0	2	1	0	1	0	2.8	7.0		
11-Jun-08	0	0	2	0	1	9	8	7	3	13	2	5	4	1	4	0	0	1	5	3	4	3	7	7	3.6	13.3		
12-Jun-08	4	3	4	4	P	14	4	4	9	10	9	0	0	2	2	1	2	8	10	3	4	2	3	1	4.5	14.2		
13-Jun-08	0	0	0	0	0	1	0	4	4	12	5	7	8	4	4	4	2	0	6	3	1	4	0	0	2.9	11.8		
14-Jun-08	1	0	1	1	1	3	3	3	2	2	1	0	1	1	2	5	4	2	3	2	1	4	2	3	2.0	4.8		
15-Jun-08	3	3	2	2	2	3	4	3	3	0	0	0	0	0	0	0	7	2	1	1	3	1	2	3	1.8	6.6		
16-Jun-08	0	2	0	0	0	10	0	0	0	4	12	2	6	8	9	3	11	8	4	3	6	6	12	11	4.9	12.4		
17-Jun-08	8	5	5	4	4	8	10	8	8	7	5	6	2	0	0	5	9	9	0	4	5	4	4	0	5.0	10.2		
18-Jun-08	4	2	2	2	5	6	7	0	3	1	3	0	0	2	C	C	C	C	7	2	1	1	2	1	2.6	7.2		
19-Jun-08	0	0	0	0	0	1	2	2	4	6	2	1	2	6	2	3	2	1	1	2	6	7	5	3	2.5	6.6		
20-Jun-08	3	4	4	3	4	4	6	9	7	5	4	2	1	4	1	2	1	3	3	2	4	4	3	10	3.9	9.9		
21-Jun-08	16	16	15	13	7	8	6	1	4	14	2	2	0	0	0	5	7	19	10	8	12	9	6	3	7.7	18.8		
22-Jun-08	6	5	7	14	3	4	6	7	4	4	5	6	5	16	13	12	13	8	5	6	6	7	6	5	7.2	15.8		
23-Jun-08	2	2	2	2	3	6	6	10	14	11	13	12	11	9	9	11	7	4	3	1	3	6	5	7	6.6	14.0		
24-Jun-08	5	4	4	4	4	10	17	11	20	21	3	C	C	4	21	11	11	9	1	3	3	5	0	0	7.7	21.4		
25-Jun-08	1	1	0	1	2	3	10	8	7	8	10	2	8	13	10	18	21	16	14	8	0	2	2	1	6.9	20.7		
26-Jun-08	1	3	2	0	0	0	0	2	1	0	0	0	5	4	2	7	1	11	1	2	1	2	1	1	1.9	11.3		
27-Jun-08	2	1	1	2	2	4	4	6	7	5	2	4	15	2	8	3	2	3	4	4	7	8	5	6	4.5	14.9		
28-Jun-08	5	7	8	11	11	8	7	7	9	6	1	0	2	2	2	3	3	3	2	3	8	5	10	6	5.3	11.1		
29-Jun-08	3	3	5	5	6	8	6	4	5	4	2	0	1	1	2	1	1	2	4	4	2	N	N	N	3.2	7.9		
30-Jun-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
Hourly Avg	3.4	3.1	3.3	3.6	3.5	6.2	6.9	6.7	7.4	7.3	4.0	2.9	3.7	4.0	4.2	4.3	5.2	7.8	4.5	3.2	4.1	4.3	4.2	3.8				
Hourly Max	16.4	15.9	15.0	14.4	14.8	19.0	21.6	26.8	21.0	28.3	13.3	12.4	14.9	15.8	21.4	18.1	20.7	63.8	22.1	8.2	13.4	17.2	24.3	15.3				

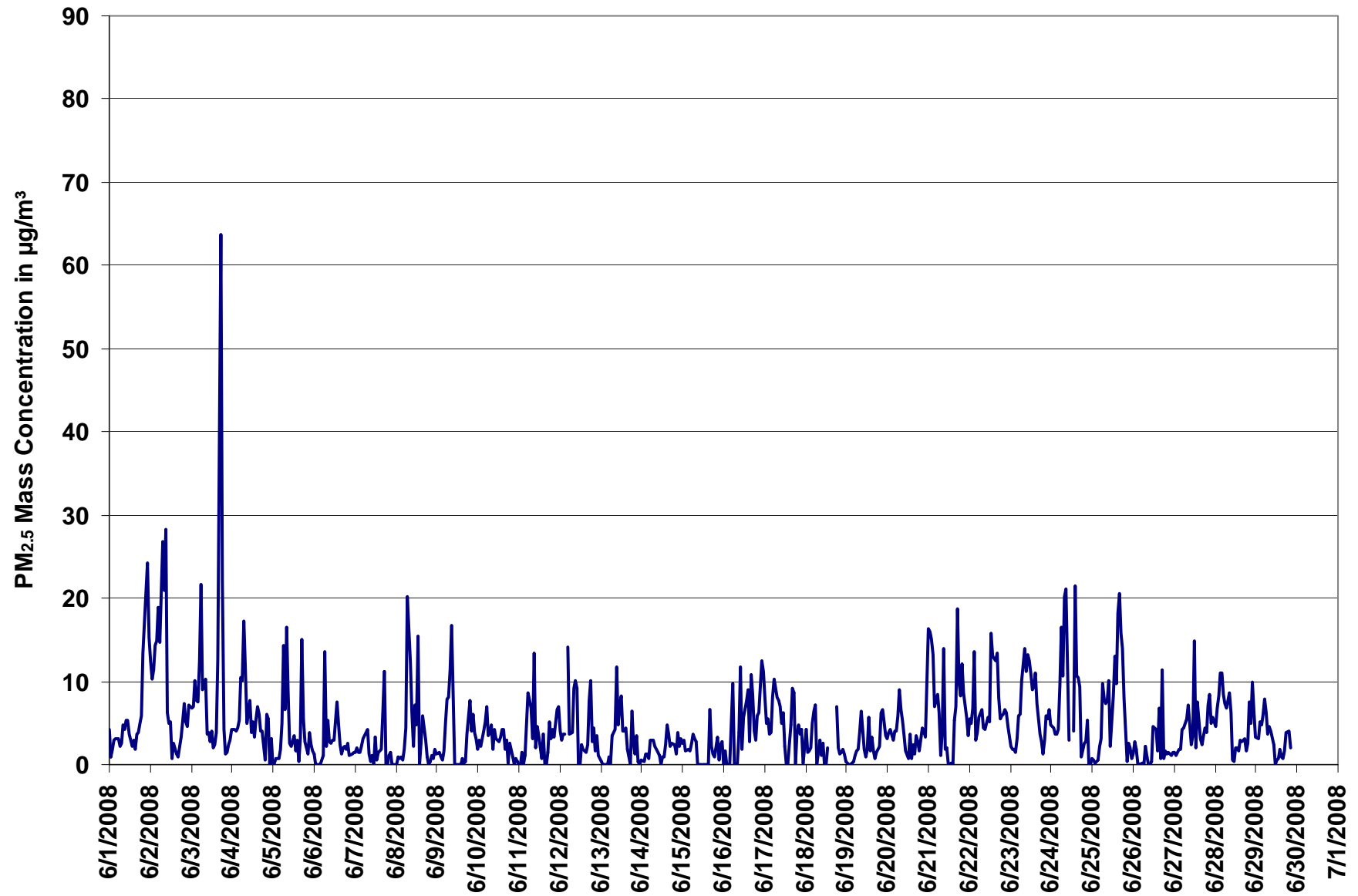


Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

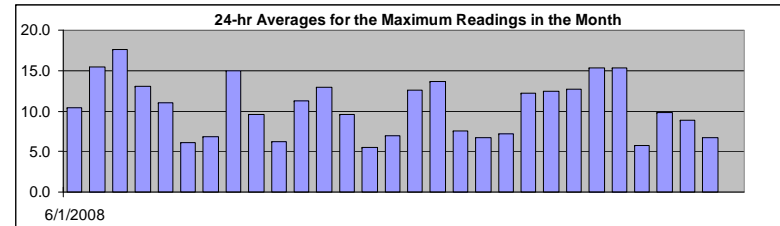
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	96.4	µg/m ³	3-Jun	17:00 18:00
Maximum 24-hr Value:	17.6	µg/m ³	3-Jun	



AIC Time:	0 hrs	Operational Time:	686 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	96.1%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	40.6	29.9	13.6	7.6	4.3	2.0	0.8	10.5	8 µg/m ³

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Jun-08	16	4	3	5	5	7	4	6	8	6	8	8	10	8	9	6	7	8	8	10	20	23	39	24	10.4	39.2	
2-Jun-08	15	13	13	19	17	27	27	32	27	50	18	17	14	5	8	9	5	5	7	9	10	7	6	13	15.5	49.6	
3-Jun-08	10	10	16	9	11	33	35	13	19	10	17	7	8	7	10	9	36	96	41	6	6	4	5	6	17.6	96.4	
4-Jun-08	8	5	5	6	9	19	15	48	25	11	15	14	14	7	16	29	15	11	8	3	11	8	6	6	13.1	48.0	
5-Jun-08	2	3	3	2	4	11	28	22	32	16	8	14	14	7	9	4	10	41	10	5	4	5	4	5	11.0	40.5	
6-Jun-08	5	3	2	0	2	3	34	9	9	4	5	5	6	12	8	7	5	5	4	4	5	3	3	3	6.0	33.9	
7-Jun-08	3	4	3	2	4	4	5	7	12	15	4	3	9	4	5	6	22	39	2	1	2	5	1	1	6.8	38.9	
8-Jun-08	1	3	2	3	2	3	7	35	29	32	17	24	19	42	28	9	35	22	32	2	2	3	2	4	14.9	42.0	
9-Jun-08	3	4	3	4	6	11	15	20	22	38	3	4	4	4	4	4	5	4	24	22	7	9	6	5	9.6	37.7	
10-Jun-08	3	5	4	7	7	9	8	6	8	4	9	5	7	6	9	10	8	9	10	5	4	1	2	3	6.2	9.5	
11-Jun-08	1	1	4	2	4	12	21	23	12	33	10	14	15	10	16	4	8	8	18	9	8	10	18	9	11.3	33.2	
12-Jun-08	7	5	5	5	P	24	19	8	27	30	38	9	5	9	8	8	10	21	23	4	16	4	5	4	12.9	38.0	
13-Jun-08	2	1	1	0	3	4	4	6	13	37	9	18	28	16	17	16	8	6	17	9	4	7	3	2	9.6	36.5	
14-Jun-08	2	2	4	4	3	7	5	5	5	8	4	6	5	6	7	14	7	6	5	7	3	7	5	5	5.5	14.3	
15-Jun-08	5	4	3	3	3	4	6	5	6	4	6	9	5	8	7	4	21	21	12	6	9	3	7	4	6.9	21.5	
16-Jun-08	4	4	0	2	2	22	18	3	5	9	32	6	15	13	15	10	21	32	9	10	11	16	28	16	12.6	32.1	
17-Jun-08	15	14	16	15	8	13	18	14	16	9	10	9	9	6	7	13	31	25	14	25	25	7	9	2	13.7	31.2	
18-Jun-08	7	6	5	5	9	13	24	5	6	7	12	6	8	11	C	C	C	C	11	7	3	2	3	2	7.5	23.5	
19-Jun-08	2	1	1	2	1	2	3	3	13	11	18	3	12	15	5	11	3	3	7	6	13	12	8	6	6.7	18.4	
20-Jun-08	5	7	5	5	6	6	14	13	9	8	9	4	3	14	2	7	4	7	5	3	8	8	6	15	7.2	14.9	
21-Jun-08	19	17	16	15	10	10	12	4	9	26	5	4	0	3	1	17	15	44	13	9	20	10	8	6	12.2	43.5	
22-Jun-08	7	7	19	31	6	6	7	9	6	6	7	8	8	38	29	22	24	13	7	8	8	9	8	8	12.5	37.8	
23-Jun-08	4	4	4	3	5	11	11	19	24	17	22	22	17	18	15	21	22	11	19	2	6	11	7	10	12.7	23.6	
24-Jun-08	7	6	6	5	7	23	23	21	28	44	20	C	C	8	35	22	25	30	6	4	8	9	0	0	15.3	43.7	
25-Jun-08	2	2	1	2	4	11	15	13	24	36	23	9	21	30	19	30	36	26	25	27	2	5	3	2	15.3	36.1	
26-Jun-08	2	5	4	3	2	2	2	5	2	1	1	3	10	13	12	22	4	26	3	3	3	4	2	4	5.7	26.4	
27-Jun-08	2	2	2	3	3	8	9	8	26	16	4	9	28	6	38	7	6	5	8	6	12	11	9	8	9.9	38.3	
28-Jun-08	7	10	12	14	13	11	10	10	11	9	3	5	4	5	4	8	5	8	7	5	15	13	14	11	8.9	14.7	
29-Jun-08	5	6	9	8	9	11	17	7	9	8	6	3	3	2	4	3	2	4	5	13	6	N	N	N	6.8	17.2	
30-Jun-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
Hourly Avg	5.9	5.5	5.8	6.3	5.9	11.2	14.3	13.0	15.2	17.4	11.8	8.9	10.8	11.4	12.4	11.8	14.3	19.1	12.4	8.0	8.6	7.6	7.9	6.6			
Hourly Max	18.7	17.5	18.8	31.2	16.6	32.6	34.7	48.0	31.9	49.6	38.0	24.1	28.1	42.0	38.3	30.0	36.1	96.4	40.6	26.7	24.7	22.7	39.2	24.2			

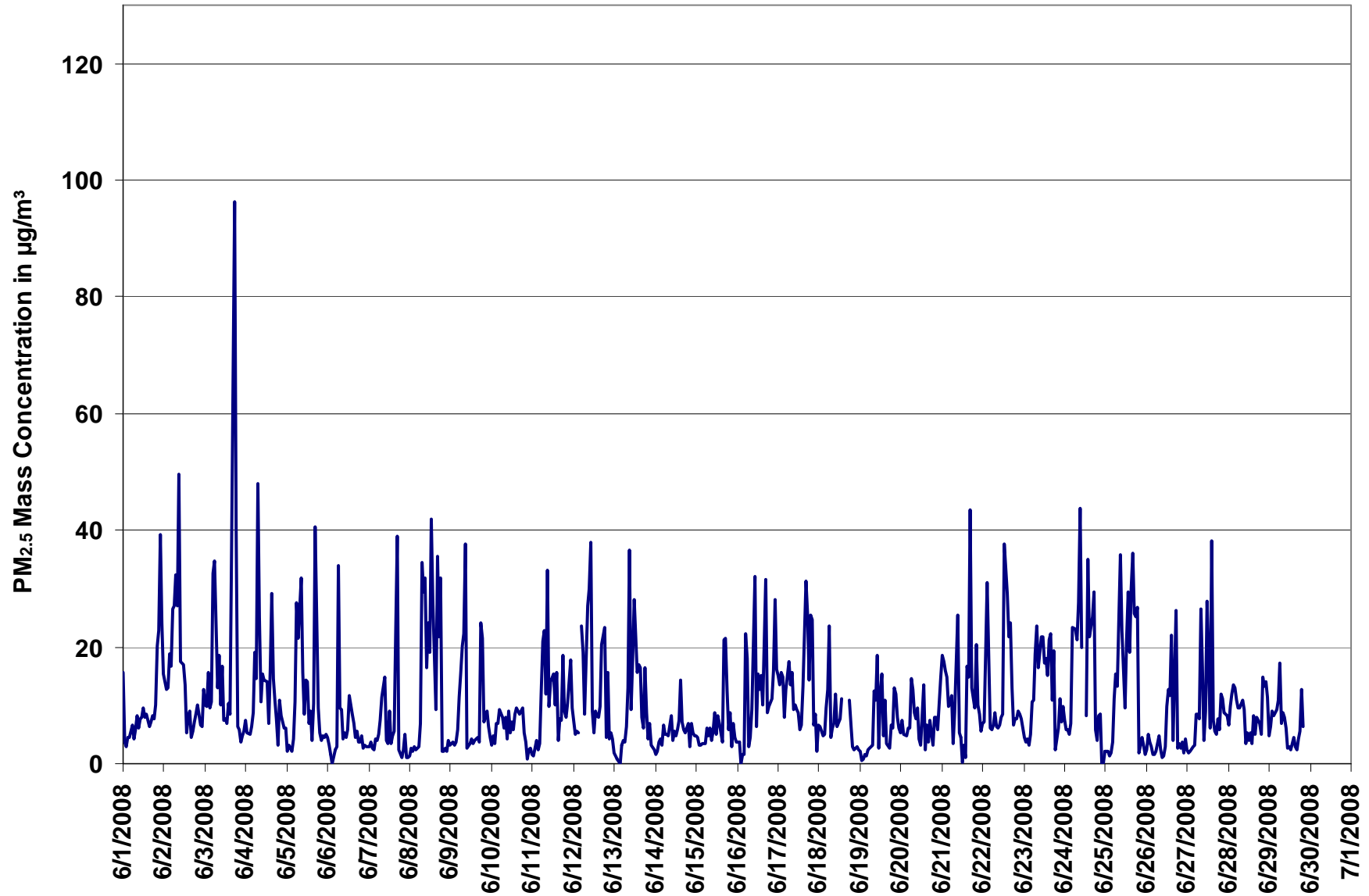
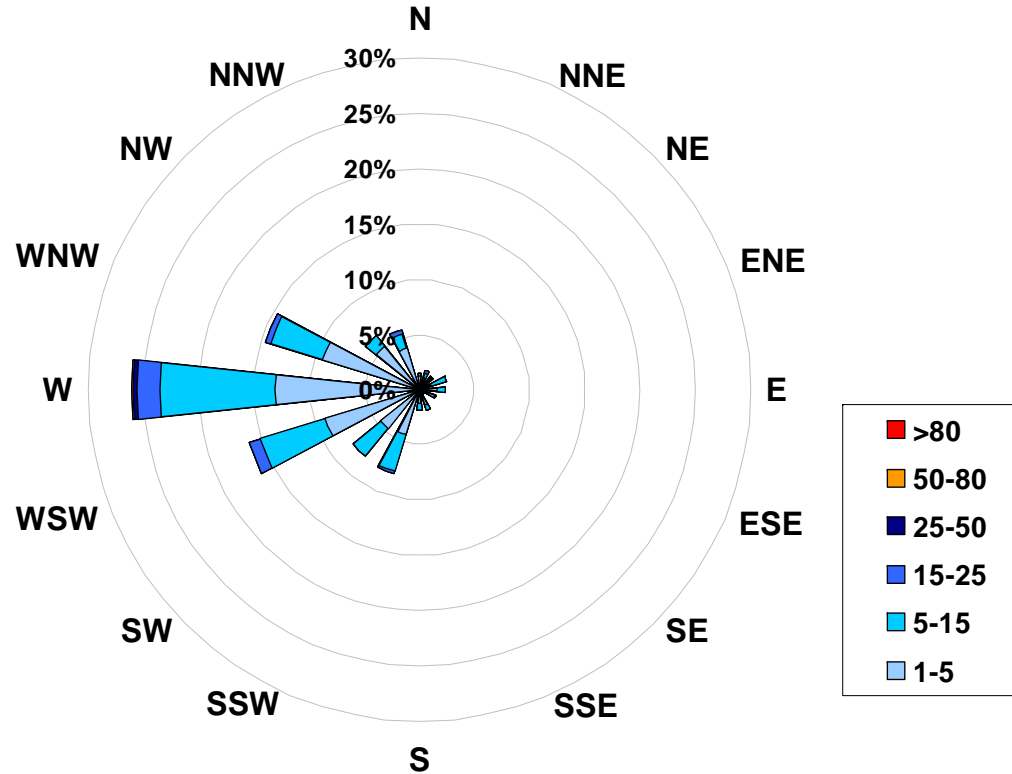


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 June 2008



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range		Frequency (hrs)	
1.0	< 5	461	
5	to 15	197	
15	to 25	25	
25	to 50	2	
50	to 80	1	
	> 80	0	
Total Non-Zero Values			686

PASZA - Evergreen Park Temperature Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

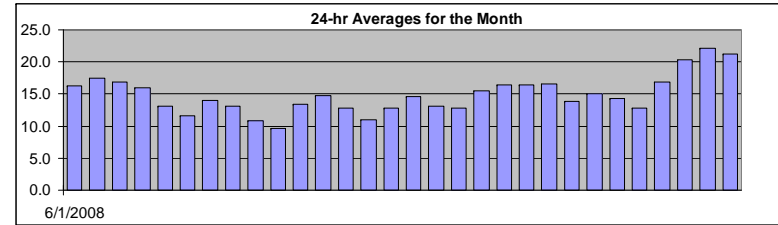
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	29.9	°C	29-Jun	16:00 17:00
Maximum 24-hr Value:	22.2	°C	29-Jun	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	28.6	25.8	18.7	14.5	10.4	6.0	2.9	14.9 °C	14.5 °C

Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jun-08	11	11	10	8	7	8	10	13	14	16	17	20	21	23	23	24	24	24	24	24	24	20	15	12	10	16.3	24.4
2-Jun-08	9	7	6	5	4	5	10	13	15	19	21	24	25	26	27	26	27	26	26	25	22	19	18	14	17.5	26.7	
3-Jun-08	11	9	9	11	11	11	14	16	18	20	21	22	23	24	24	24	24	20	18	17	16	15	14	13	16.9	24.5	
4-Jun-08	12	12	11	11	11	10	12	14	15	17	18	19	19	20	21	21	21	21	20	20	18	15	15	13	16.0	21.2	
5-Jun-08	12	11	10	10	8	10	11	12	14	15	16	17	16	17	17	18	18	15	13	12	12	11	10	10	13.2	18.4	
6-Jun-08	10	9	9	9	8	8	8	9	11	13	14	14	13	12	12	13	14	14	14	14	12	12	12	12	11.6	14.2	
7-Jun-08	12	10	9	9	8	8	9	12	14	15	16	17	18	18	18	19	19	16	16	16	16	15	14	13	14.0	18.6	
8-Jun-08	12	10	9	8	7	7	8	10	13	14	15	16	17	17	17	18	18	18	17	17	15	13	11	6	13.1	17.9	
9-Jun-08	3	1	0	-1	-1	2	6	8	11	14	16	17	17	18	19	19	19	19	17	14	13	11	9	8	10.8	18.8	
10-Jun-08	9	9	5	5	6	7	9	10	9	9	9	10	10	11	12	12	13	13	12	11	10	10	9	9	9.6	13.3	
11-Jun-08	8	7	6	6	4	6	8	10	13	15	16	17	18	18	20	19	19	20	20	20	19	13	10	8	13.3	20.4	
12-Jun-08	7	5	5	4	3	5	10	12	15	18	20	21	22	22	22	23	23	21	18	17	17	16	15	14	14.8	22.9	
13-Jun-08	13	12	11	11	11	10	10	11	13	14	15	15	15	15	16	15	16	16	14	14	13	11	10	9	12.9	16.0	
14-Jun-08	7	6	4	4	4	5	9	10	11	12	12	12	12	14	15	16	16	16	15	15	14	13	11	11	11	10.9	16.2
15-Jun-08	10	10	9	9	9	9	9	10	11	12	13	15	16	17	17	18	17	17	17	16	15	11	10	10	12.8	18.1	
16-Jun-08	11	10	9	7	6	7	10	12	14	16	17	18	19	20	20	21	21	21	21	20	18	13	10	9	14.5	21.1	
17-Jun-08	10	13	12	12	10	10	11	13	14	15	15	13	12	14	17	17	16	14	16	16	13	11	10	9	13.0	17.5	
18-Jun-08	8	8	6	6	6	7	9	11	12	14	16	17	18	18	19	19	20	17	12	13	13	13	12	12	12.8	19.8	
19-Jun-08	11	11	11	11	10	10	11	12	14	15	17	17	19	19	20	20	21	21	21	22	18	15	13	12	15.6	21.7	
20-Jun-08	12	10	9	9	8	8	11	16	17	19	20	21	22	22	22	22	22	21	22	22	21	15	12	10	16.4	22.5	
21-Jun-08	8	7	6	5	5	6	11	14	15	17	20	23	25	26	26	23	20	21	21	21	20	19	17	16	16.4	26.2	
22-Jun-08	17	16	15	14	15	16	16	16	16	16	16	17	18	18	20	20	20	20	19	19	18	16	13	8	16.6	20.4	
23-Jun-08	7	4	3	1	1	3	10	13	14	16	18	19	20	20	21	21	22	22	21	21	20	15	11	10	13.9	21.6	
24-Jun-08	10	8	7	8	9	10	11	13	16	19	21	22	23	22	21	21	19	16	17	17	15	13	13	12	15.1	22.6	
25-Jun-08	11	10	8	9	8	10	12	13	14	15	17	18	18	18	18	18	17	17	17	17	16	15	14	13	14.3	18.5	
26-Jun-08	13	11	9	9	10	9	9	8	9	10	12	14	16	14	15	15	17	17	16	16	16	15	13	12	12.8	17.0	
27-Jun-08	12	11	10	7	5	6	11	14	16	18	19	21	22	22	23	24	24	24	24	24	23	17	15	13	16.8	23.9	
28-Jun-08	11	10	9	8	8	9	11	16	20	23	25	26	26	27	27	28	28	29	28	27	24	23	22	21	20.3	28.9	
29-Jun-08	20	18	15	13	12	13	16	19	21	23	24	26	27	28	29	29	30	30	29	28	26	22	19	16	22.2	29.9	
30-Jun-08	14	13	12	11	10	13	17	20	23	25	26	27	27	28	28	29	29	29	28	27	25	20	16	14	21.2	28.7	
Hourly Avg	10.7	9.6	8.6	7.9	7.4	8.2	10.6	12.6	14.4	16.1	17.4	18.5	19.2	19.7	20.3	20.5	20.4	19.8	19.2	18.6	17.2	14.7	13.0	11.7			
Hourly Max	20.0	18.3	14.9	14.4	14.9	15.7	16.7	19.7	22.7	24.8	26.1	26.6	27.5	27.8	28.9	29.4	29.9	29.7	28.6	27.9	26.3	23.0	21.6	21.3			

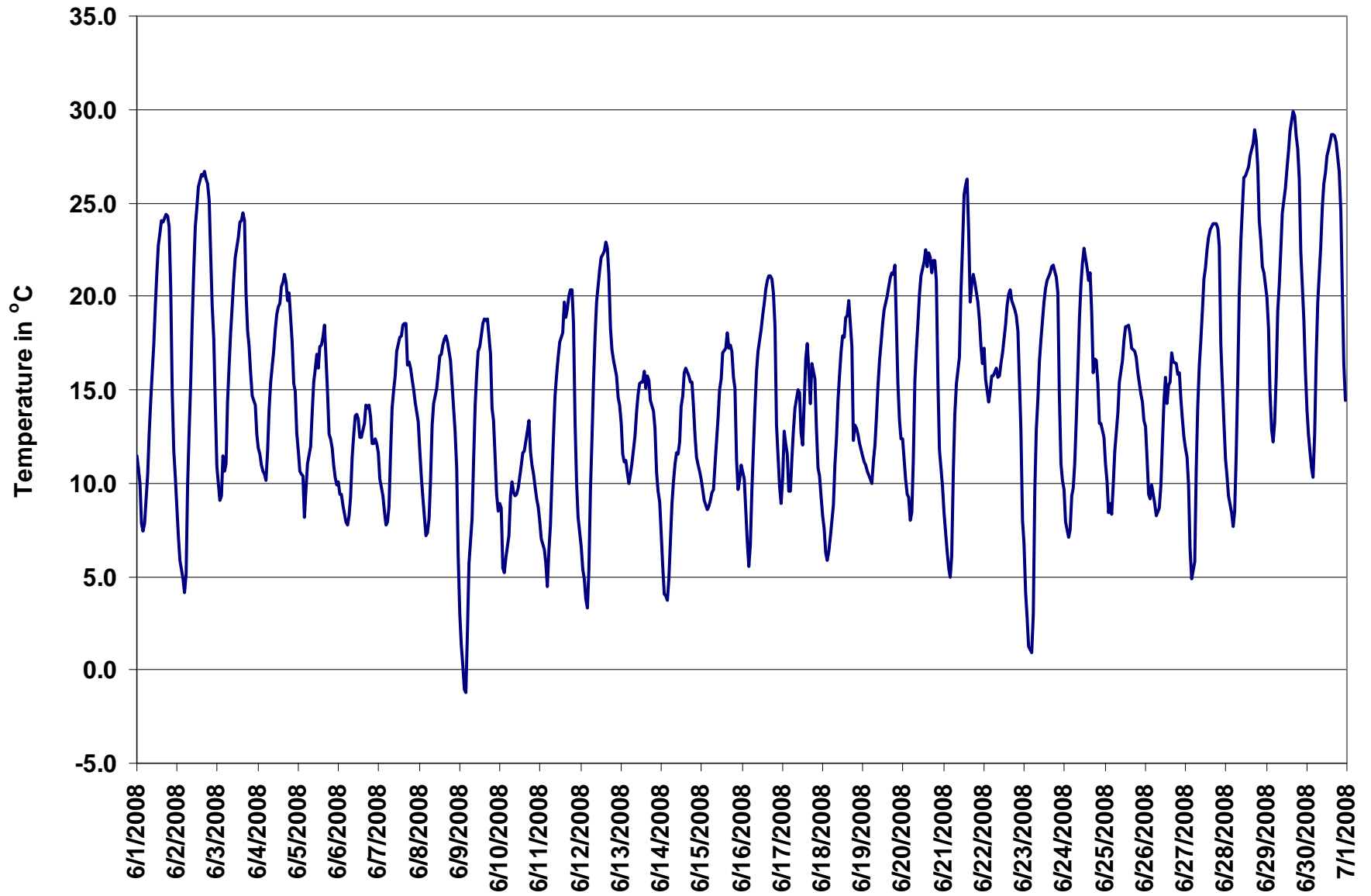


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

PASZA - Evergreen Park Sclar Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

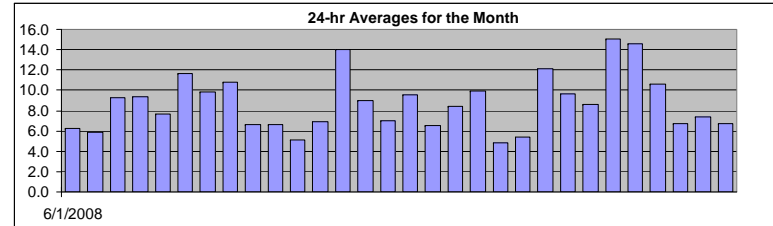
Wind Speed (WSs)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	24.9	km/hr	25-Jun	16:00 17:00
Maximum 24-hr Value:	15.0	km/hr	25-Jun	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	22.0	17.5	11.4	7.8	5.2	2.8	2.3	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-Jun-08	10	9	6	5	4	4	7	9	8	8	8	7	7	7	9	8	8	6	5	4	3	3	3	4	6.3	10.3	
2-Jun-08	3	2	3	3	3	3	3	5	5	4	7	7	10	8	8	10	8	10	8	8	6	7	7	4	5.8	9.8	
3-Jun-08	3	3	5	7	6	8	9	10	11	10	9	7	9	6	6	6	11	24	22	17	11	8	7	6	9.3	24.4	
4-Jun-08	8	9	9	9	6	5	7	9	8	9	11	12	10	12	13	13	13	11	12	10	8	8	7	6	9.4	13.5	
5-Jun-08	4	4	5	5	3	4	5	7	10	12	13	11	11	10	12	5	6	19	13	5	5	4	4	4	7.7	18.8	
6-Jun-08	7	6	7	7	8	9	11	11	12	14	14	16	14	11	13	14	19	16	16	17	11	9	10	9	11.7	18.5	
7-Jun-08	9	7	7	8	6	5	7	8	11	13	14	14	12	12	8	8	15	17	12	9	6	5	10	14	9.8	16.9	
8-Jun-08	11	7	8	9	6	7	8	11	13	16	16	16	13	13	13	12	14	15	13	11	9	8	6	3	10.8	16.2	
9-Jun-08	3	3	4	3	5	6	9	9	6	5	7	7	7	9	10	9	10	9	10	11	5	6	4	5	6.6	10.6	
10-Jun-08	6	4	3	3	3	3	5	8	9	12	11	6	10	8	8	8	5	7	7	7	8	8	5	5	6.6	12.2	
11-Jun-08	4	5	6	5	4	4	6	7	6	6	5	6	5	5	9	9	7	4	6	4	4	3	3	3	5.2	8.8	
12-Jun-08	3	2	3	2	3	4	6	7	10	8	8	8	8	8	8	7	5	10	16	10	7	8	6	8	6.9	16.1	
13-Jun-08	7	9	16	15	14	14	15	16	20	18	21	21	21	18	18	14	12	13	12	10	11	5	7	9	14.0	21.1	
14-Jun-08	5	5	5	3	5	4	11	10	11	11	9	8	9	8	9	14	16	14	14	14	9	7	6	8	9.0	15.7	
15-Jun-08	6	6	7	7	6	6	8	8	7	8	7	7	10	11	9	7	7	8	7	6	5	3	4	6	7.0	10.9	
16-Jun-08	8	6	4	3	3	5	6	9	13	17	17	16	17	14	13	12	16	16	11	8	5	3	3	4	9.6	17.3	
17-Jun-08	4	6	4	4	5	4	5	6	6	7	9	12	13	13	8	7	8	6	5	5	6	5	5	3	6.6	13.5	
18-Jun-08	5	4	4	3	5	5	7	9	9	9	8	7	9	10	9	8	9	12	11	9	12	15	12	11	8.4	14.7	
19-Jun-08	9	9	9	9	9	10	14	15	17	16	15	15	13	13	12	9	10	7	8	4	3	5	3	4	9.9	16.8	
20-Jun-08	4	3	3	4	3	4	3	5	5	5	6	8	7	8	8	7	4	6	6	6	4	2	2	2	4.8	8.3	
21-Jun-08	2	2	2	2	2	3	3	5	7	4	7	8	8	10	9	7	6	7	5	7	8	6	4	5	5.4	9.6	
22-Jun-08	5	4	5	10	10	8	9	11	10	8	10	11	19	19	21	23	24	22	20	16	13	8	5	4	12.1	23.9	
23-Jun-08	4	3	3	3	4	4	6	11	16	16	18	17	16	17	17	17	14	13	12	9	5	3	2	3	9.6	17.9	
24-Jun-08	3	4	3	5	5	6	8	7	7	5	7	8	8	6	13	12	17	17	15	12	9	8	10	12	8.7	17.0	
25-Jun-08	9	8	6	10	6	7	12	12	14	16	22	19	20	21	21	23	25	25	21	22	13	9	12	11	15.0	24.9	
26-Jun-08	11	11	8	7	11	13	16	17	12	16	18	16	17	16	17	18	16	20	19	17	15	14	12	12	14.6	19.6	
27-Jun-08	12	11	7	3	3	3	3	5	10	16	18	18	20	17	16	18	16	17	14	10	6	4	4	4	10.6	19.6	
28-Jun-08	4	5	3	3	3	3	3	5	8	11	12	13	12	10	9	7	8	8	8	7	3	5	4	6	6.7	12.7	
29-Jun-08	5	5	3	3	4	3	4	8	10	10	10	12	11	11	13	11	12	11	8	6	6	4	4	4	7.4	12.8	
30-Jun-08	2	4	3	3	4	4	5	6	8	9	7	11	9	11	12	11	12	11	8	7	5	3	4	3	6.7	12.4	
1-hr Average	5.9	5.5	5.3	5.4	5.3	5.6	7.3	8.8	9.9	10.6	11.4	11.5	11.8	11.3	11.6	11.2	11.8	12.7	11.5	9.6	7.4	6.2	5.9	6.1			
Hourly Max	12.3	11.3	15.6	15.1	13.8	14.2	16.4	16.6	19.7	18.3	21.6	20.8	20.6	20.7	21.2	23.1	24.9	24.6	22.0	21.8	15.2	14.7	12.4	13.7			

PASZA - Evergreen Park Vector Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

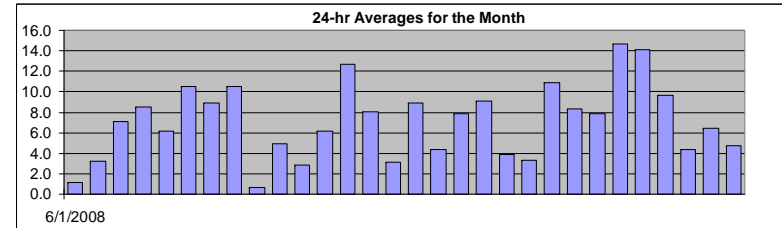
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	24.3	km/hr	25-Jun	16:00 17:00
Maximum 24-hr Value:	14.7	km/hr	25-Jun	



Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	21.7	17.0	10.8	7.0	4.2	1.5	0.7	37.8 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jun-08	9	8	5	4	4	2	7	8	8	7	6	6	4	3	7	4	6	4	4	3	2	2	1	3	1.2	9.0	
2-Jun-08	1	2	2	1	2	1	3	4	4	3	5	5	8	5	6	6	7	9	8	8	6	7	6	4	3.2	8.7	
3-Jun-08	1	1	5	7	5	8	9	9	11	9	7	5	6	2	3	2	5	24	22	16	11	8	7	5	7.1	23.9	
4-Jun-08	7	9	8	9	6	4	6	9	7	8	10	11	9	12	13	12	12	10	11	9	8	7	7	6	8.5	12.7	
5-Jun-08	4	3	5	5	1	4	5	7	10	11	12	10	11	9	10	3	4	19	12	5	4	4	4	4	6.2	18.5	
6-Jun-08	7	6	7	6	8	9	11	10	11	13	13	16	14	11	12	14	18	15	16	16	11	9	10	9	10.5	18.2	
7-Jun-08	8	6	7	8	6	5	6	7	10	12	12	13	11	12	8	7	15	17	12	8	5	5	10	14	8.9	16.8	
8-Jun-08	11	7	8	9	6	7	8	11	13	15	15	16	11	12	11	11	13	15	12	10	8	8	6	3	10.6	15.6	
9-Jun-08	2	1	2	1	4	5	9	8	5	3	3	3	5	7	8	7	9	8	7	10	5	5	4	4	0.6	10.4	
10-Jun-08	5	4	1	3	1	2	4	7	8	12	10	6	9	8	7	7	4	7	5	6	8	8	5	5	5.0	12.0	
11-Jun-08	4	4	5	5	3	4	6	6	5	5	4	1	2	1	6	8	6	2	4	3	4	2	3	3	2.8	8.1	
12-Jun-08	0	1	2	1	2	4	6	6	10	8	7	6	5	5	7	4	4	9	14	10	7	8	6	8	6.1	13.9	
13-Jun-08	7	8	16	15	14	14	15	16	19	18	21	20	20	17	17	12	11	11	10	10	11	5	7	8	12.7	20.6	
14-Jun-08	5	4	5	2	4	4	10	10	10	10	7	7	7	6	8	13	15	14	13	12	9	6	6	8	8.0	15.1	
15-Jun-08	6	6	7	7	6	6	8	7	6	7	5	5	10	10	7	5	3	6	6	6	4	2	2	6	3.2	9.7	
16-Jun-08	8	6	4	2	2	5	5	8	13	17	16	15	16	13	12	11	15	16	10	8	5	1	2	4	8.9	17.0	
17-Jun-08	4	5	4	3	4	3	5	5	5	7	9	12	13	12	7	6	8	5	5	4	5	4	3	0	4.4	13.3	
18-Jun-08	5	3	2	2	5	5	6	9	8	8	6	6	8	9	8	6	7	11	10	9	11	15	12	11	7.8	14.6	
19-Jun-08	9	8	9	9	9	10	14	15	17	15	14	14	12	12	11	8	9	5	6	3	3	4	3	4	9.1	16.5	
20-Jun-08	4	1	2	3	2	3	3	5	4	4	4	5	4	2	7	5	4	6	6	6	4	1	1	1	3.9	7.0	
21-Jun-08	1	1	1	0	1	2	2	4	6	1	6	7	7	8	9	2	4	7	5	7	8	6	4	5	3.3	8.6	
22-Jun-08	4	3	5	10	10	8	8	11	9	8	9	10	18	19	20	22	23	22	19	15	13	8	5	3	10.9	23.4	
23-Jun-08	4	1	1	1	3	1	5	11	16	15	16	17	16	16	16	16	13	12	11	9	5	3	2	2	8.3	17.0	
24-Jun-08	2	2	2	4	5	6	8	6	7	4	5	5	4	5	12	11	15	16	15	12	9	8	10	12	7.8	16.4	
25-Jun-08	9	7	5	10	6	6	11	12	13	15	21	18	19	20	20	22	24	24	20	22	12	8	12	10	14.7	24.3	
26-Jun-08	11	10	5	7	11	13	16	16	12	15	18	16	16	15	16	17	15	19	19	17	15	14	12	12	14.1	19.3	
27-Jun-08	12	11	6	3	1	2	2	3	9	15	17	17	19	16	15	18	15	17	13	9	6	4	3	4	9.6	19.1	
28-Jun-08	4	5	2	1	2	3	1	4	8	11	12	12	11	9	8	5	7	5	8	7	2	4	3	6	4.4	12.1	
29-Jun-08	5	5	2	2	4	0	3	8	9	9	9	11	10	10	12	10	12	10	8	6	6	2	1	1	6.4	11.9	
30-Jun-08	2	3	1	3	3	4	4	5	7	9	5	10	7	10	11	10	12	10	7	7	5	2	3	3	4.7	11.9	
1-hr Vector	3.9	3.8	4.2	4.4	3.8	4.2	5.8	7.2	8.3	9.0	8.6	8.0	8.0	7.6	7.8	8.0	8.7	9.4	7.8	5.9	4.0	3.4	4.2	4.2			
Hourly Max	12.2	11.3	15.5	15.0	13.6	14.0	16.2	16.4	19.4	17.7	21.2	20.1	20.0	19.9	20.4	22.5	24.3	24.1	21.7	21.6	15.0	14.6	12.3	13.6			

PASZA - Evergreen Park Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	347.7	331.6	284.5	261.2	222.3	69.6	17.0	270 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00			
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00				
1-Jun-08	64	118	112	57	80	95	117	146	156	174	184	169	196	198	292	315	285	261	323	345	287	331	283	33	159	SSE		
2-Jun-08	334	342	348	247	246	259	215	263	254	280	163	165	164	117	151	151	116	116	116	109	94	101	101	92	138	SE		
3-Jun-08	344	284	254	270	245	233	276	281	275	304	307	331	342	45	62	108	256	266	278	265	281	304	268	237	280	W		
4-Jun-08	264	262	257	263	261	282	291	258	265	264	255	249	272	274	270	265	259	262	232	209	187	199	208	208	253	WSW		
5-Jun-08	227	253	256	257	356	223	275	229	260	282	291	294	284	296	297	312	293	273	256	182	162	180	183	222	268	W		
6-Jun-08	249	244	271	273	269	271	274	285	300	308	312	332	330	331	338	329	332	325	328	336	328	314	312	312	312	312	312	NW
7-Jun-08	302	275	280	269	264	270	283	293	312	304	306	321	340	333	318	283	263	257	263	301	303	286	267	264	290	WNW		
8-Jun-08	275	296	281	266	272	261	262	259	270	273	275	253	263	272	284	287	279	274	296	306	295	272	268	286	275	W		
9-Jun-08	42	317	209	326	217	248	267	253	281	210	15	32	76	91	100	81	79	79	96	202	272	208	217	297	128	SE		
10-Jun-08	316	298	36	58	35	316	6	17	359	339	349	358	333	307	292	331	16	279	299	271	259	265	264	265	322	NW		
11-Jun-08	276	245	249	234	240	279	259	280	290	280	332	329	83	328	9	347	330	26	311	340	140	149	214	212	299	WNW		
12-Jun-08	310	22	241	223	260	231	216	234	260	268	270	297	287	298	330	317	252	279	265	288	293	261	257	265	274	W		
13-Jun-08	261	267	256	256	249	232	252	248	254	257	254	248	252	266	264	293	300	279	313	340	329	304	258	265	265	W		
14-Jun-08	286	242	202	211	212	208	267	284	267	266	278	331	276	290	262	252	256	250	250	300	304	302	284	269	268	W		
15-Jun-08	256	263	268	272	275	281	260	275	283	304	300	313	322	332	336	351	64	64	101	116	99	87	192	212	301	WNW		
16-Jun-08	234	217	221	220	232	207	220	258	261	264	268	263	258	257	269	276	258	249	279	302	303	303	224	207	258	WSW		
17-Jun-08	220	220	301	285	205	246	295	274	285	210	204	203	223	223	206	250	306	211	319	312	30	93	205	194	237	WSW		
18-Jun-08	214	218	240	272	275	253	263	259	256	263	272	247	225	258	264	279	281	299	211	230	243	243	249	250	253	WSW		
19-Jun-08	232	245	236	240	241	237	246	255	260	265	278	265	271	259	268	276	267	279	331	350	333	228	222	206	260	W		
20-Jun-08	208	42	247	215	205	230	325	284	272	301	238	215	223	201	213	226	194	220	208	221	215	279	238	271	230	SW		
21-Jun-08	333	255	280	300	48	27	34	121	176	228	130	143	131	108	81	46	9	39	58	72	73	76	72	98	86	E		
22-Jun-08	99	71	214	255	261	255	268	301	317	304	316	283	287	278	275	277	271	280	285	277	255	252	272	250	277	W		
23-Jun-08	236	176	254	161	202	17	215	247	258	264	258	259	271	275	276	285	291	294	302	320	301	220	205	232	269	W		
24-Jun-08	292	230	248	296	289	274	274	285	255	244	224	196	222	237	270	276	298	233	253	252	236	221	254	254	255	WSW		
25-Jun-08	250	260	253	256	264	273	253	254	259	266	253	248	271	285	291	283	282	281	275	267	265	261	270	281	269	W		
26-Jun-08	282	288	274	247	263	260	265	259	242	252	259	273	281	288	288	287	295	265	264	260	258	257	252	249	268	W		
27-Jun-08	244	247	270	334	15	102	179	231	260	251	253	265	276	275	286	277	287	271	272	280	260	255	242	226	267	W		
28-Jun-08	192	207	152	239	62	65	18	208	209	204	208	224	206	207	201	201	210	261	312	312	290	306	279	315	226	SW		
29-Jun-08	303	299	272	247	199	226	192	233	257	273	254	270	280	291	285	287	284	284	290	294	306	342	177	198	273	W		
30-Jun-08	227	207	292	326	240	257	291	301	331	338	321	329	346	334	347	346	342	352	39	54	78	87	70	62	342	NNW		
Hourly Avg	263	255	255	261	254	253	262	262	267	270	269	268	272	279	285	288	286	275	280	283	278	261	250	254				

PASZA - Evergreen Park Standard Deviation of Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	88.9	74.2	39.6	22.4	14.5	8.9	6.7

Status Flag Characters

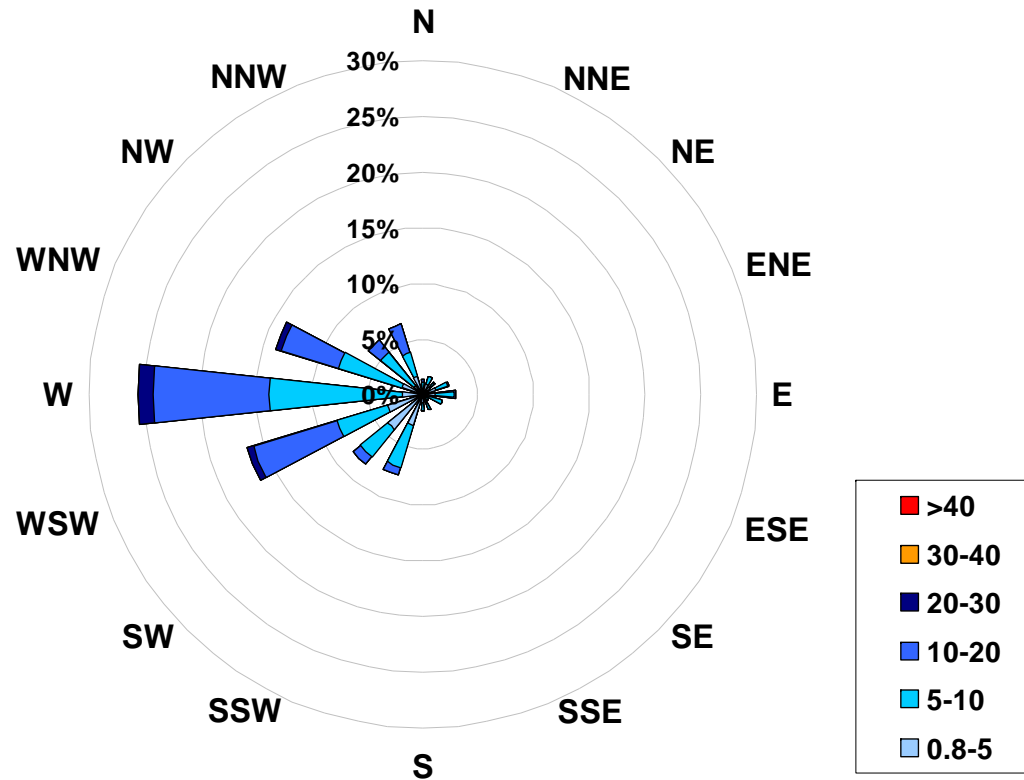
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day Mountain Standard Time

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-Jun-08	29	24	20	21	35	87	14	20	31	33	54	55	77	75	43	76	49	60	60	39	38	64	69	40	86.9		
2-Jun-08	79	56	53	61	50	74	31	31	40	47	46	45	36	56	44	50	56	33	27	18	11	10	12	26	78.9		
3-Jun-08	81	84	41	11	33	11	14	18	17	30	36	64	53	87	70	86	77	11	10	11	15	16	23	44	86.9		
4-Jun-08	24	11	10	10	17	31	35	18	30	30	20	23	22	17	20	25	22	23	20	14	13	21	16	7	34.5		
5-Jun-08	43	66	15	13	79	50	37	20	13	19	24	24	20	24	31	57	58	10	27	22	24	16	20	14	79.3		
6-Jun-08	9	11	17	14	9	10	11	13	24	17	18	16	15	13	11	12	11	14	11	9	13	15	11	13	23.8		
7-Jun-08	18	15	12	12	12	10	13	27	24	27	28	26	27	18	27	30	14	7	10	23	14	23	9	7	30.1		
8-Jun-08	11	17	14	8	20	10	13	12	16	18	21	16	28	24	31	30	30	17	22	18	18	10	10	26	31.3		
9-Jun-08	47	56	86	73	54	13	12	13	25	62	80	73	49	39	33	44	28	30	45	13	31	37	49	33	86.1		
10-Jun-08	14	25	88	37	71	28	22	18	20	13	16	32	15	17	20	28	35	31	54	18	10	10	20	23	88.2		
11-Jun-08	16	25	15	16	30	16	16	20	47	43	49	88	89	97	53	24	36	63	72	53	29	40	41	32	97.2		
12-Jun-08	89	58	51	71	32	27	11	17	15	22	32	48	65	61	33	68	49	24	30	16	15	17	11	13	88.7		
13-Jun-08	9	19	7	8	10	10	8	9	12	15	13	15	14	17	15	28	26	26	38	23	12	15	13	14	38.2		
14-Jun-08	15	44	10	68	22	27	15	18	22	17	32	32	46	38	32	22	17	14	10	28	17	24	20	13	67.7		
15-Jun-08	12	13	11	10	14	14	11	15	22	32	52	54	24	30	41	52	69	33	31	21	46	48	61	14	69.3		
16-Jun-08	12	23	24	67	40	16	22	27	15	11	17	21	23	22	24	28	25	15	23	18	17	63	31	20	66.7		
17-Jun-08	28	48	30	31	49	33	31	27	35	25	13	8	9	11	34	49	27	54	52	24	49	40	70	97	97.2		
18-Jun-08	10	54	74	48	20	21	20	13	26	21	41	48	31	26	41	46	40	27	21	10	9	8	10	11	73.6		
19-Jun-08	11	13	12	11	9	7	9	11	11	16	18	16	22	25	32	27	31	47	45	51	39	48	15	6	51.0		
20-Jun-08	16	94	28	10	51	56	44	29	33	45	64	59	82	91	26	51	40	17	17	16	23	71	76	45	93.5		
21-Jun-08	29	59	62	92	81	50	68	42	37	79	32	29	44	32	22	74	49	15	16	19	16	20	13	18	92.3		
22-Jun-08	29	24	51	11	9	8	20	15	16	17	21	23	18	12	14	13	12	11	12	12	7	8	13	29	51.0		
23-Jun-08	25	78	81	82	48	70	24	12	10	15	18	18	20	17	17	20	21	21	20	17	20	21	23	24	82.1		
24-Jun-08	47	59	55	16	14	12	17	33	20	50	49	59	75	49	16	24	28	11	12	9	17	12	10	6	75.1		
25-Jun-08	8	9	29	6	25	24	13	14	16	16	11	18	18	17	16	14	12	12	12	8	12	22	10	13	28.9		
26-Jun-08	13	14	44	20	8	9	8	8	12	8	12	14	15	19	15	17	17	13	8	8	8	7	5	6	43.7		
27-Jun-08	7	7	29	22	72	71	53	57	18	16	15	17	14	19	17	15	18	15	15	15	20	34	43	28	72.4		
28-Jun-08	17	19	55	73	89	38	56	51	12	11	13	19	16	26	29	50	20	55	23	16	52	47	47	13	89.0		
29-Jun-08	16	15	36	34	21	94	54	17	22	24	26	24	31	32	23	27	19	25	17	16	13	57	79	77	94.4		
30-Jun-08	46	61	79	43	36	22	30	24	22	21	49	24	53	30	31	26	19	25	25	24	16	69	31	38	78.5		

Hourly Max 89 94 88 92 89 94 68 57 47 79 80 88 89 97 70 86 77 63 72 53 52 71 79 97

1-hr Average Wind Rose (in km/hr) Located at the Evergreen Park Site for June 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	165
5	to	10	321
10	to	20	217
20	to	30	17
30	to	40	0
	>	40	0
Total Non-Zero Values			720

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

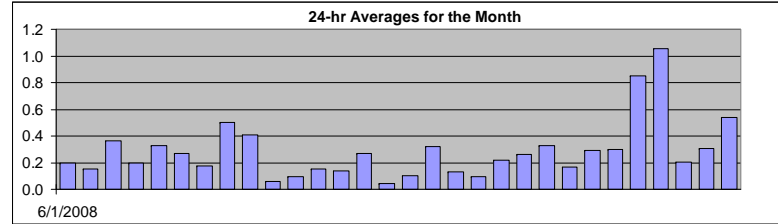
Sulphur Dioxide (SO₂)

Monitoring Dates: June 1, 2008 to July 1, 2008

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:	10.5	ppb	27-Jun	1:00 2:00
Maximum 24-hr Average:	1.1	ppb	27-Jun	



AIC Time:	31 hrs	Operational Time:	683 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.0	1.0	0.3	0.1	0.1	0.0	0.0	0.3 ppb	0.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start 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-Jun-08	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	A	0	0	0	0.2	0.6
2-Jun-08	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	0.3
3-Jun-08	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	A	0	0	0	0	0.4	1.7	
4-Jun-08	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	A	0	0	0	0	0	0.2	0.8	
5-Jun-08	0	0	0	0	0	0	0	2	1	1	1	0	0	0	0	0	A	0	0	1	0	0	0	0.3	1.8	
6-Jun-08	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.3	1.2	
7-Jun-08	0	0	0	0	0	0	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.2	0.8	
8-Jun-08	0	0	0	0	0	2	4	1	2	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.5	4.1	
9-Jun-08	0	1	1	1	1	1	1	1	1	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0.4	1.0	
10-Jun-08	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	
11-Jun-08	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
12-Jun-08	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0.2	0.8	
13-Jun-08	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.8	
14-Jun-08	0	0	0	0	0	0	2	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.1	
15-Jun-08	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	
16-Jun-08	0	0	0	0	0	A	0	0	0	1	0	0	0	C	C	C	0	0	0	0	0	0	0	0.1	0.5	
17-Jun-08	0	0	1	0	0	A	0	0	0	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0.3	1.3	
18-Jun-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
19-Jun-08	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	
20-Jun-08	0	0	A	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0	
21-Jun-08	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	
22-Jun-08	A	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	A	0.3	1.3
23-Jun-08	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0.2	0.5	
24-Jun-08	0	0	0	0	0	A	0	0	1	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0.3	1.5	
25-Jun-08	1	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0.3	1.9	
26-Jun-08	0	0	0	A	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	2	7	0.9	7.1
27-Jun-08	7	10	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1.1	10.5	
28-Jun-08	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.2	0.7	
29-Jun-08	A	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	1.0	
30-Jun-08	0	0	0	1	2	1	1	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	A	0	0.5	1.7
Hourly Avg	0.4	0.5	0.2	0.2	0.3	0.3	0.5	0.4	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4		
Hourly Max	6.8	10.5	1.3	1.1	2.0	1.5	4.1	1.8	1.7	1.5	1.7	1.3	0.6	0.4	0.6	1.2	0.4	0.3	0.3	0.8	1.1	2.9	2.3	7.1		

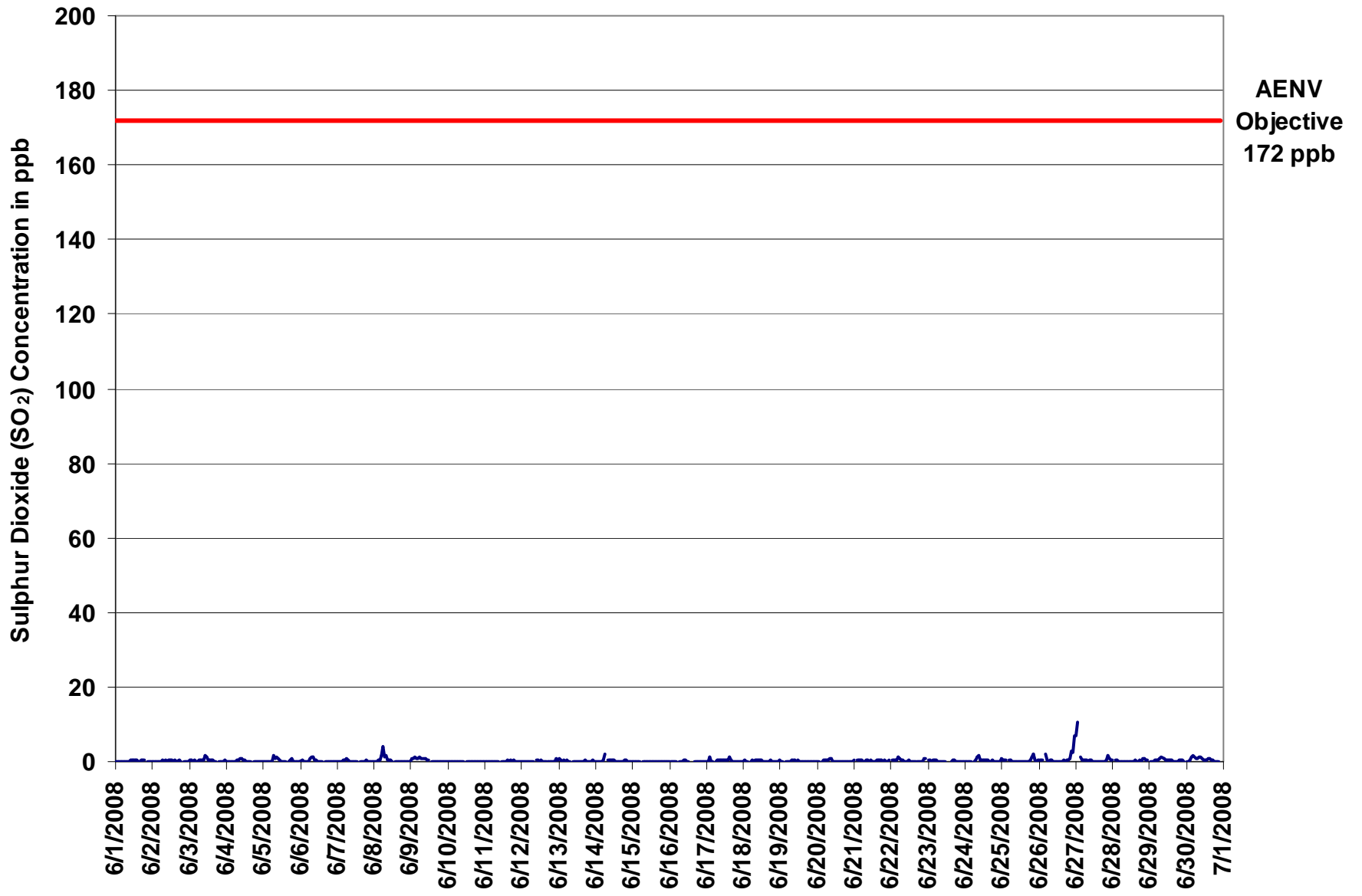


Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASAA

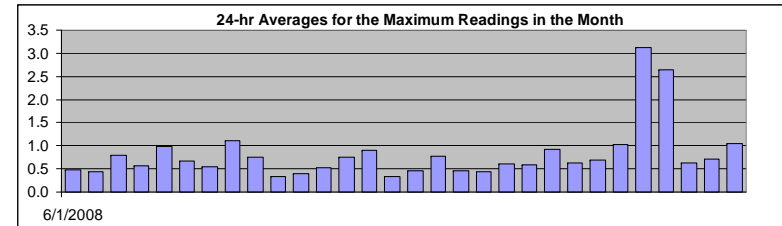
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	23.9	ppb	26-Jun	23:00 0:00
Maximum 24-hr Value:	3.1	ppb	26-Jun	



AIC Time:	31 hrs	Operational Time:	683 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.7	2.1	0.7	0.5	0.3	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-Jun-08	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	A	1	0	0	0.5	0.9
2-Jun-08	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	1	0	A	0	0	0	0	0.4	0.7
3-Jun-08	0	1	0	0	0	0	1	1	1	1	3	2	1	1	1	0	0	A	1	1	1	0	0	1	0.8	2.8
4-Jun-08	0	0	0	0	0	0	0	1	1	2	2	1	1	1	0	0	A	0	0	0	0	0	0	0	0.6	1.8
5-Jun-08	0	0	0	0	0	0	0	6	2	3	1	1	1	0	0	0	A	0	2	2	1	0	0	0	1.0	5.9
6-Jun-08	1	1	1	0	0	0	2	2	2	1	1	0	0	0	0	A	1	0	0	0	0	0	0	0	0.7	2.4
7-Jun-08	0	0	0	1	1	1	2	1	0	0	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0.5	1.8
8-Jun-08	0	0	1	1	0	5	6	2	2	2	1	1	1	A	0	0	0	0	1	0	0	0	0	0	1.1	5.6
9-Jun-08	1	1	1	1	1	1	2	1	1	1	1	1	A	1	0	0	0	0	0	0	0	0	0	1	0.8	1.6
10-Jun-08	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
11-Jun-08	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	1	1	1	0	0	0	1	0.4	0.9
12-Jun-08	0	0	0	0	0	0	0	0	0	A	1	1	0	1	0	0	0	0	0	1	0	0	2	1	0.5	2.0
13-Jun-08	3	1	0	2	0	1	1	1	A	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	0.8	3.1
14-Jun-08	0	0	0	1	0	2	5	A	1	1	1	1	1	0	0	0	0	0	0	2	1	0	0	0	0.9	5.0
15-Jun-08	0	0	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
16-Jun-08	0	0	0	0	0	A	0	0	1	1	1	0	1	C	C	C	0	0	1	0	0	0	1	1	0.5	1.1
17-Jun-08	0	1	3	0	0	A	0	1	1	1	1	1	1	0	1	2	1	1	1	0	0	0	0	0	0.8	3.3
18-Jun-08	0	1	0	0	A	0	1	1	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0.5	0.9
19-Jun-08	1	0	0	A	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0.4	1.4
20-Jun-08	0	0	A	0	1	1	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.6	1.9
21-Jun-08	1	A	1	1	1	1	0	1	1	1	0	1	0	1	0	1	1	1	1	0	0	0	0	1	0.6	0.8
22-Jun-08	A	1	1	0	1	4	2	1	0	0	0	0	1	0	0	0	1	1	1	1	0	3	1	A	0.9	4.1
23-Jun-08	1	1	1	1	1	1	0	0	0	0	0	0	C	C	C	0	1	1	1	0	0	0	0	1	0.6	1.4
24-Jun-08	0	0	0	1	0	A	0	1	3	2	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0.7	2.7
25-Jun-08	3	1	1	1	A	2	0	0	0	0	0	0	0	1	1	0	0	1	1	1	3	3	2	0	1.0	3.4
26-Jun-08	1	3	2	A	10	2	0	1	2	0	0	1	1	0	1	1	1	1	1	2	3	8	8	24	3.1	23.9
27-Jun-08	21	20	A	2	1	0	1	0	1	1	1	1	1	1	1	0	0	0	1	1	2	3	2	1	2.6	20.9
28-Jun-08	2	A	1	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	1	0	2	2	1	1	0.6	1.8
29-Jun-08	A	0	0	0	1	1	1	2	2	1	1	1	1	1	1	0	0	0	0	1	1	1	1	A	0.7	1.9
30-Jun-08	0	0	1	2	3	2	1	1	2	2	1	1	1	1	1	1	1	1	0	0	0	0	A	0	1.1	3.0
Hourly Avg	1.5	1.3	0.6	0.7	0.9	1.1	1.1	1.0	1.0	0.9	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.7	0.9	0.9	1.3		
Hourly Max	20.9	20.0	3.3	2.4	9.9	5.3	5.6	5.9	2.7	2.5	2.8	2.4	1.1	0.9	1.2	1.7	1.0	1.0	1.9	2.4	3.2	7.9	7.9	23.9		

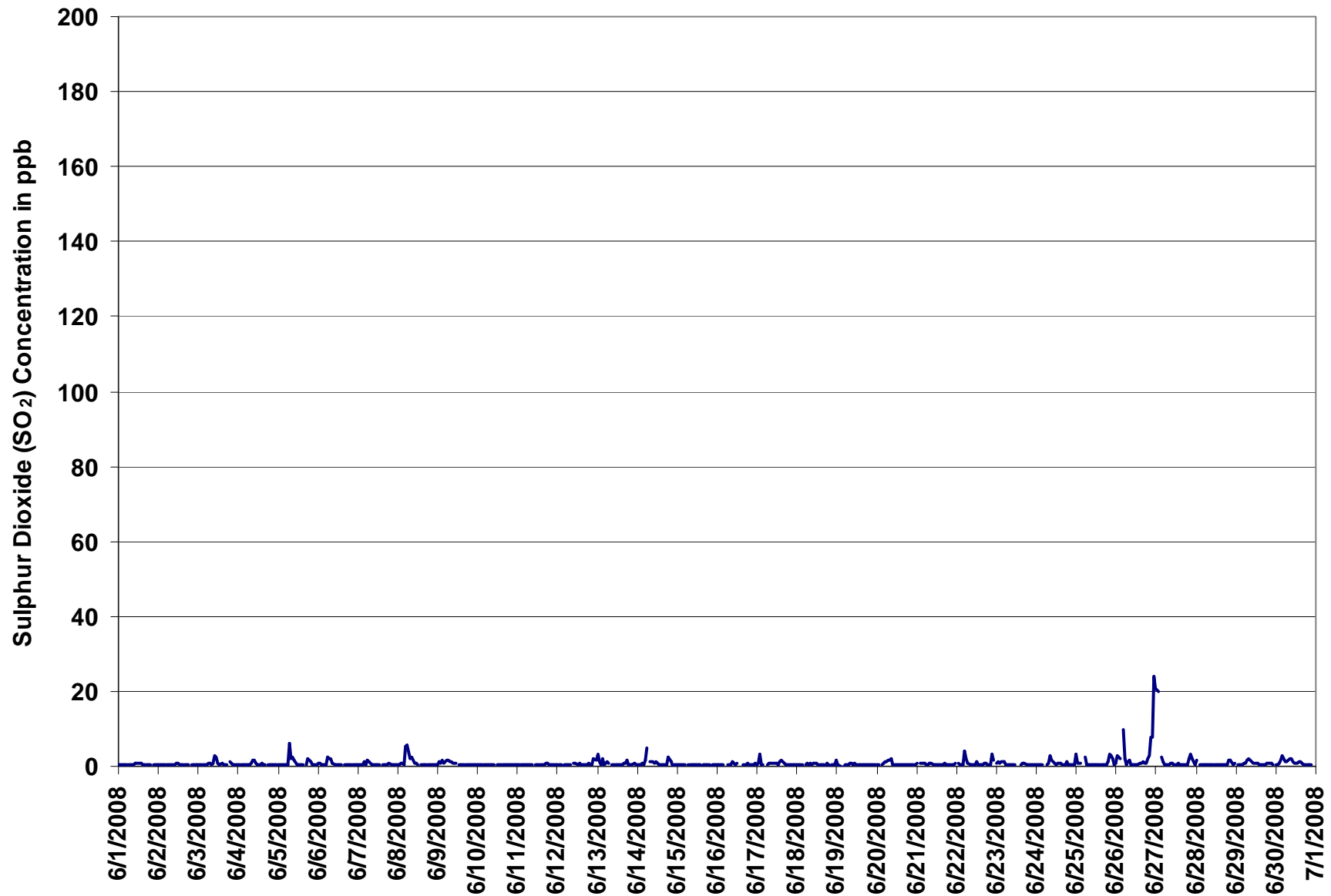
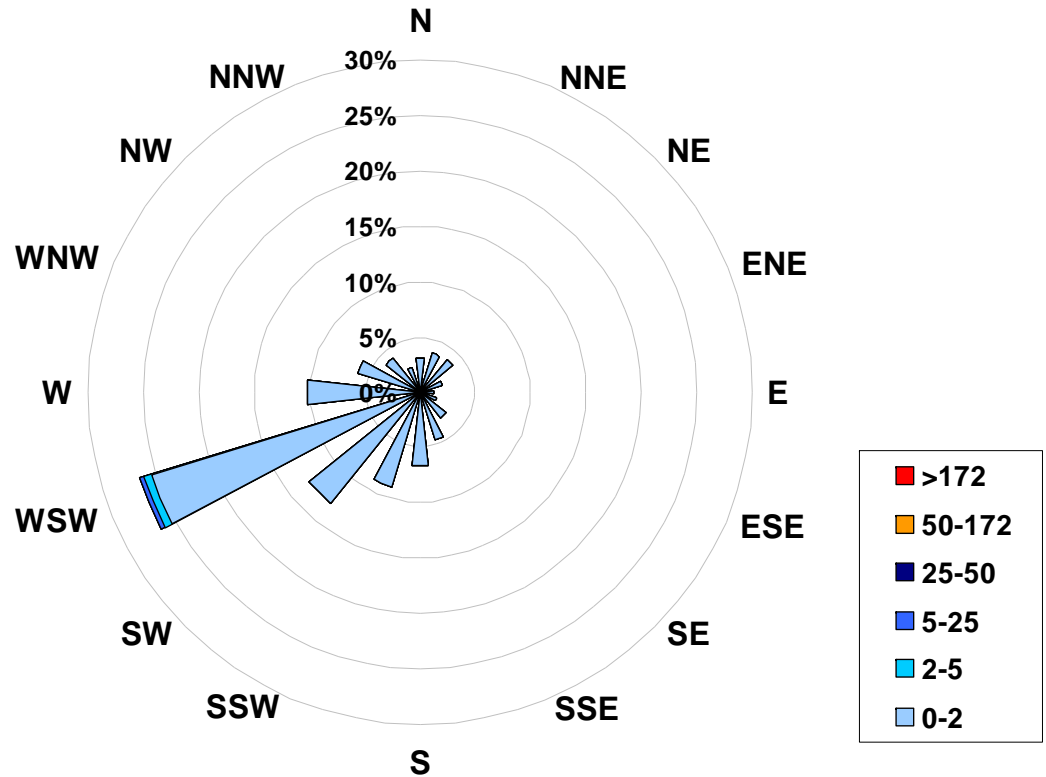


Figure 28. PASZA - Smoky Heights Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Smoky Heights Site for June 2008



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range			Frequency (hrs)
0.0	<	2	675
2	to	5	5
5	to	25	3
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			683

PASZA - Smoky Heights Total Reduced Sulphur Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

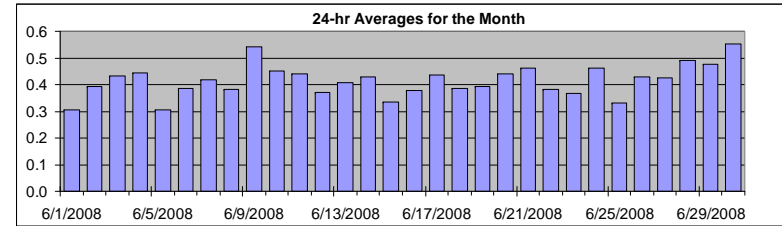
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Maximum 1-hr Average:	1.3	ppb	9-Jun	5:00 6:00
Maximum 24-hr Value:	0.6	ppb	30-Jun	



AIC Time:	32 hrs	Operational Time:	682 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.9	0.6	0.5	0.4	0.3	0.3	0.2	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	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	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-Jun-08	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.4
2-Jun-08	0:00	1:00	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.4	0.7
3-Jun-08	0:00	1:00	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.4	0.9
4-Jun-08	0:00	1:00	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.4	0.9
5-Jun-08	0:00	1:00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.3	0.6
6-Jun-08	0:00	1:00	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.4	0.5
7-Jun-08	0:00	1:00	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0.4	0.6
8-Jun-08	0:00	1:00	0	0	0	0	1	1	1	1	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
9-Jun-08	0:00	1:00	0	1	1	1	1	1	1	1	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.3
10-Jun-08	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	1	0	0.5	0.6
11-Jun-08	0:00	1:00	0	0	0	0	0	0	1	1	1	0	A	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.4	0.6
12-Jun-08	0:00	1:00	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4	0.6
13-Jun-08	0:00	1:00	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0.4	0.5	
14-Jun-08	0:00	1:00	1	1	0	0	1	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.9
15-Jun-08	0:00	1:00	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
16-Jun-08	0:00	1:00	0	0	1	1	0	A	0	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	1	1	1	0.4	0.7
17-Jun-08	0:00	1:00	0	0	1	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.4	0.6
18-Jun-08	0:00	1:00	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7
19-Jun-08	0:00	1:00	1	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.4	0.6
20-Jun-08	0:00	1:00	0	0	A	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4	1.2
21-Jun-08	0:00	1:00	1	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.5	0.7
22-Jun-08	0:00	1:00	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0.4	0.6
23-Jun-08	0:00	1:00	1	1	1	0	0	1	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	1	0.4	0.6
24-Jun-08	0:00	1:00	1	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	0.9
25-Jun-08	0:00	1:00	0	0	0	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	0.6
26-Jun-08	0:00	1:00	0	0	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
27-Jun-08	0:00	1:00	0	0	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.4	0.6
28-Jun-08	0:00	1:00	1	A	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0.5	0.9
29-Jun-08	0:00	1:00	A	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	A	0.5	0.7
30-Jun-08	0:00	1:00	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.6	1.2
Hourly Avg			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5		
Hourly Max			0.9	0.7	0.8	1.2	1.3	1.3	1.1	1.2	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.7	0.6	0.7	0.6		

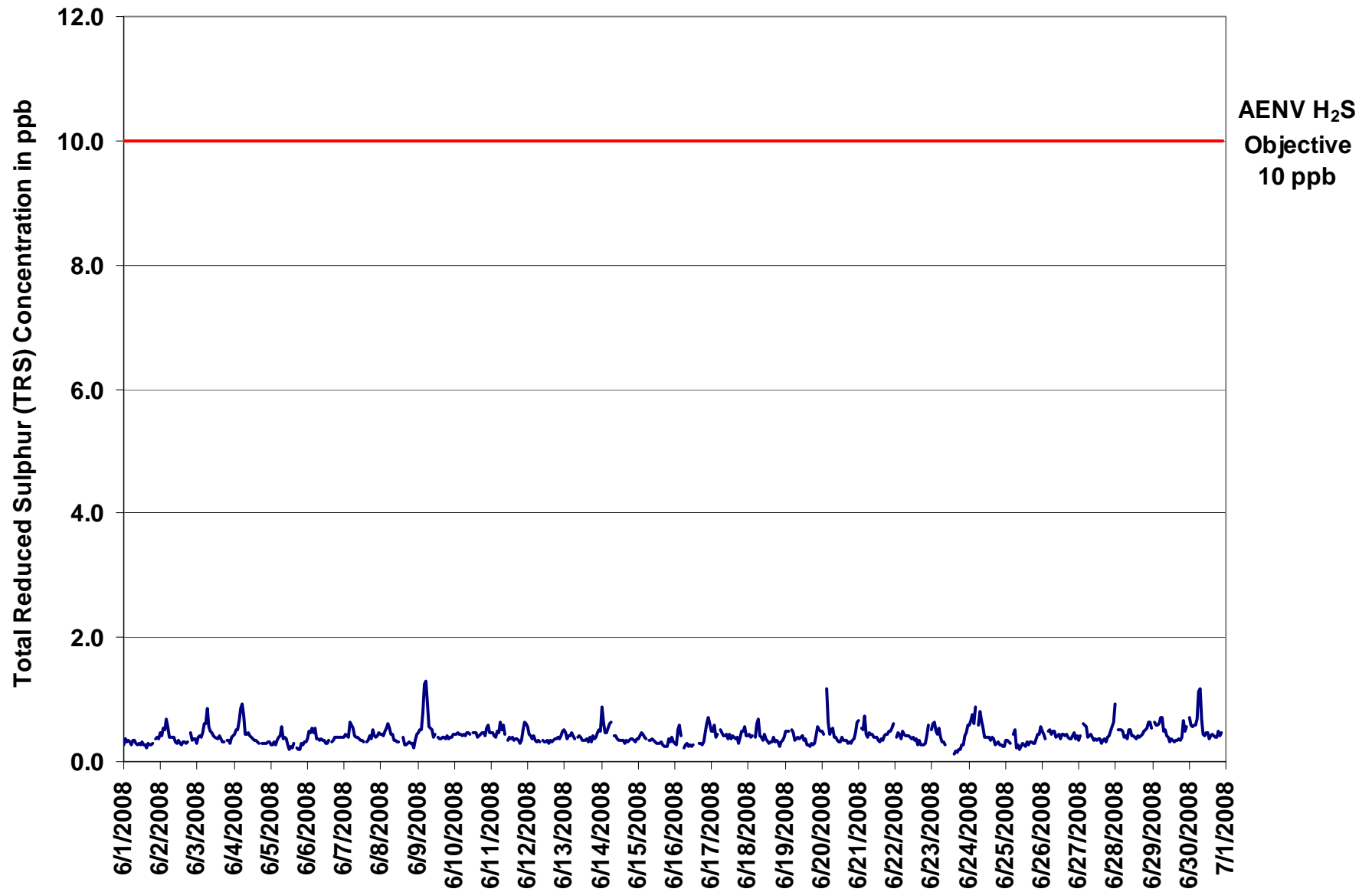


Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASAA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

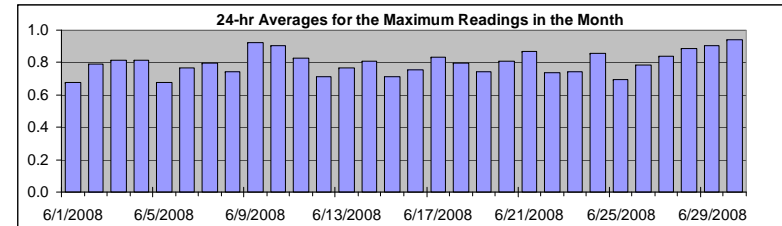
Total Reduced Sulphur (TRS)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	2.3	ppb	10-Jun	22:00 23:00
Maximum 24-hr Value:	0.9	ppb	30-Jun	

AIC Time:	32 hrs	Operational Time:	682 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.8	1.1	0.9	0.8	0.7	0.6	0.5	0.8 ppb	0.8 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum	
1-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.7	0.9
2-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.8	1.2
3-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.8	1.2
4-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.8	1.4
5-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.7	1.0
6-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.8	1.0
7-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.8	1.1
8-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0.7	1.1
9-Jun-08	1	1	1	1	2	2	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.9	1.7
10-Jun-08	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	2	1	0.9	2.3
11-Jun-08	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
12-Jun-08	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0
13-Jun-08	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	0.9
14-Jun-08	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3
15-Jun-08	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0
16-Jun-08	1	1	1	1	1	A	1	1	1	1	1	1	1	C	C	C	1	1	1	1	1	1	1	1	0.8	1.1
17-Jun-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3
18-Jun-08	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3
19-Jun-08	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0.7	1.1
20-Jun-08	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.7
21-Jun-08	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	0.9	1.9
22-Jun-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	0.9
23-Jun-08	1	1	1	1	1	1	1	1	1	1	C	C	C	A	1	1	1	1	1	1	1	1	1	1	0.7	1.0
24-Jun-08	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.3
25-Jun-08	1	1	1	1	A	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0
26-Jun-08	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
27-Jun-08	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
28-Jun-08	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.7
29-Jun-08	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.7
30-Jun-08	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.9	1.7
Hourly Avg	0.9	0.9	0.9	0.9	0.9	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.9	0.9		
Hourly Max	1.7	1.7	1.3	1.7	1.6	1.7	1.6	1.7	1.3	1.0	0.9	0.8	0.9	0.9	1.0	0.9	0.9	0.9	0.9	1.1	1.2	1.1	2.3	1.9		

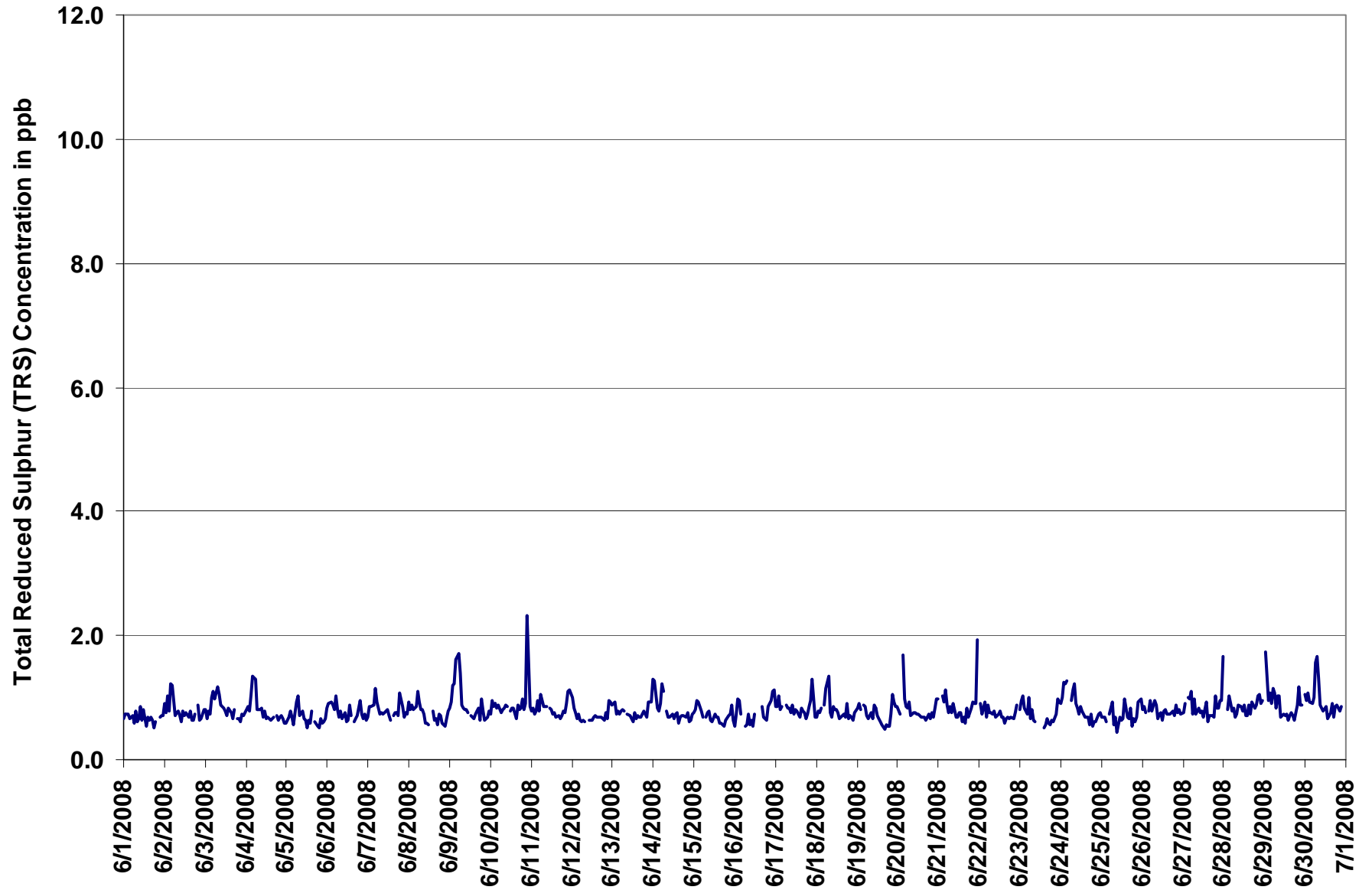
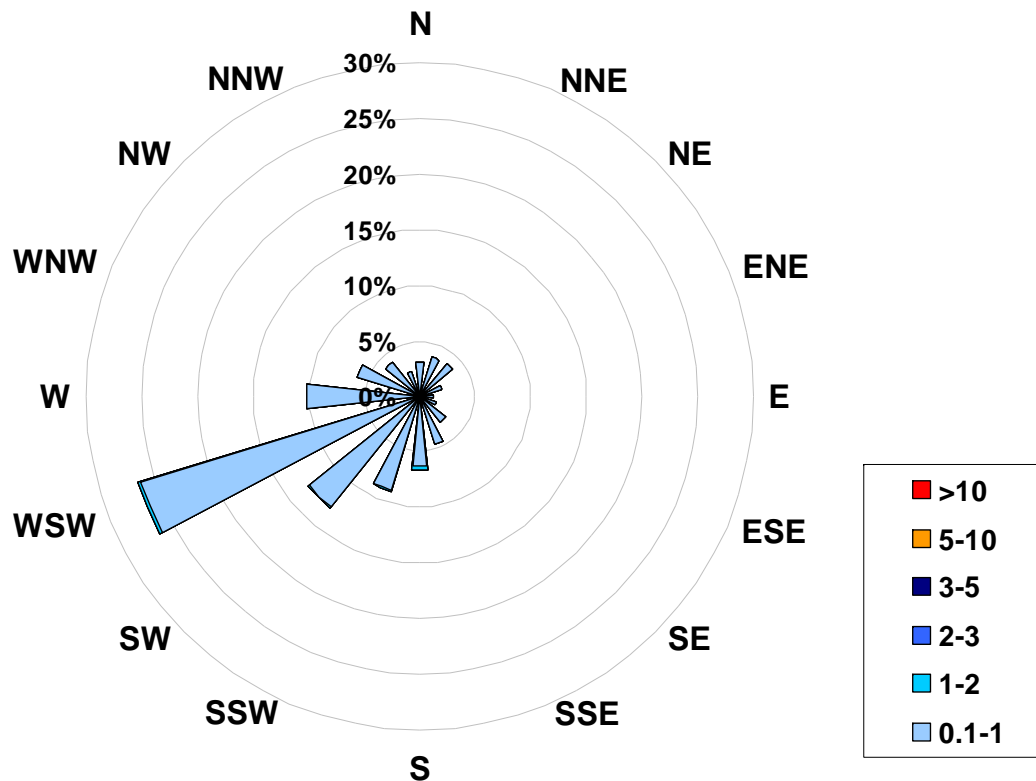


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
Located at the Smoky Heights Site for June 2008**



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	677
1	to	2	5
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			682

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

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

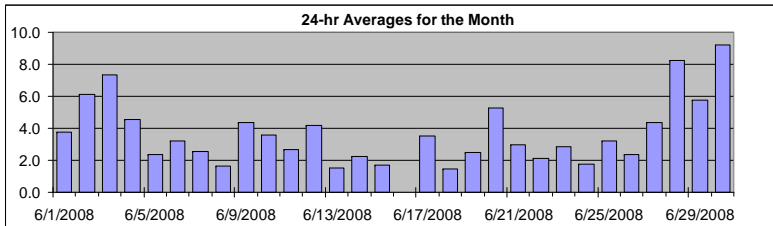
Particulate Matter (PM_{2.5})

Monitoring Dates: June 1, 2008 to July 1, 2008

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:	26.5 µg/m ³ 28-Jun 22:00 23:00
Maximum 24-hr Value:	9.2 µg/m ³ 30-Jun

AIC Time:	0 hrs	Operational Time:	702 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	98.6%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	18.5	10.1	4.9	2.9	1.2	0.0	0.0	3.7 3 µg/m ³	3.3 µg/m ³



Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
	Hour Start 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-Jun-08	3	1	3	3	5	2	3	1	3	3	3	5	4	3	1	5	3	3	5	9	4	10	5	4	3.8	9.5
2-Jun-08	4	4	3	3	4	11	6	8	8	5	9	6	0	3	4	2	2	6	6	15	11	7	7	12	6.1	15.0
3-Jun-08	10	8	6	6	7	8	10	10	12	5	6	6	3	4	8	3	6	5	19	10	6	7	8	5	7.3	19.4
4-Jun-08	5	5	5	2	6	5	12	9	5	6	3	4	2	6	2	3	2	3	10	4	6	0	2	3	4.5	11.9
5-Jun-08	4	0	6	0	4	10	0	4	0	2	0	0	0	2	2	3	4	3	4	2	5	1	1	0	2.3	10.1
6-Jun-08	0	3	5	3	0	3	2	4	4	4	6	11	8	6	3	2	3	3	2	0	2	2	0	0	3.2	11.0
7-Jun-08	2	2	2	2	2	4	4	1	0	0	1	0	0	3	2	3	1	4	6	6	5	3	4	3	2.5	5.9
8-Jun-08	1	D	0	0	0	1	1	2	0	D	0	0	D	D	1	0	4	1	0	1	4	8	9	2	1.6	8.5
9-Jun-08	2	2	2	3	4	4	2	2	1	1	0	2	0	0	0	14	8	4	3	5	6	22	7	9	4.4	22.2
10-Jun-08	5	7	6	9	5	3	6	3	5	4	4	5	4	5	2	5	1	1	1	3	3	1	0	0	3.6	8.5
11-Jun-08	1	2	0	0	1	4	4	6	9	3	3	0	1	0	0	1	0	5	4	4	8	3	2	3	2.7	8.9
12-Jun-08	1	2	3	5	3	16	4	5	7	4	3	0	D	D	0	3	4	14	2	5	1	4	2	3	4.2	16.3
13-Jun-08	1	0	0	1	0	0	2	0	0	0	0	0	1	1	0	1	5	0	2	7	4	9	2	1	1.5	9.1
14-Jun-08	2	1	0	1	1	5	3	2	1	0	0	3	3	3	0	1	3	2	7	2	5	3	4	1	2.2	7.0
15-Jun-08	3	2	2	3	3	2	2	2	1	0	1	3	3	1	D	0	5	0	1	0	1	0	0	1	1.7	5.2
16-Jun-08	2	2	2	D	0	5	0	0	1	0	0	0	1	C	C	C	C	C	D	1	8	2	2	6	N	7.8
17-Jun-08	3	3	3	2	4	6	6	5	4	4	3	3	4	4	3	4	4	5	4	3	3	3	1	1	3.5	6.4
18-Jun-08	2	1	1	0	0	2	2	4	4	1	0	1	1	0	0	3	2	2	2	3	2	2	1	1	1.5	3.9
19-Jun-08	2	1	0	0	0	1	1	1	1	1	0	0	0	0	0	2	1	2	2	3	14	16	4	7	2.5	16.3
20-Jun-08	6	4	5	4	3	6	4	4	2	2	1	2	3	3	2	2	3	4	8	6	25	14	5	9	5.3	25.2
21-Jun-08	2	5	4	3	3	9	4	6	4	2	0	3	1	0	0	1	2	11	4	2	0	2	2	2	3.0	10.9
22-Jun-08	3	3	3	5	4	4	4	4	4	3	2	1	0	0	0	0	0	0	0	1	0	1	3	2	2.1	4.7
23-Jun-08	2	1	1	1	2	3	2	2	1	1	1	1	C	C	C	2	1	2	1	2	9	5	2	18	2.8	18.5
24-Jun-08	0	0	0	0	1	4	2	3	3	1	1	1	2	2	2	5	4	3	5	0	0	0	1	1	1.7	4.6
25-Jun-08	0	0	0	0	0	1	4	0	0	0	3	6	3	5	4	3	4	4	5	5	5	9	9	5	3.2	9.4
26-Jun-08	2	3	4	1	1	0	1	2	0	0	0	1	1	2	2	4	3	4	6	3	6	5	3	2	2.3	6.0
27-Jun-08	3	3	2	2	2	3	4	3	3	2	1	1	2	2	1	1	3	3	3	4	4	14	12	24	4.4	23.5
28-Jun-08	8	6	5	5	5	5	5	8	8	10	10	5	2	3	4	5	8	4	9	18	12	17	26	8	8.2	26.5
29-Jun-08	4	16	6	4	5	6	5	4	6	4	3	7	3	3	3	6	4	6	8	9	10	6	4	6	5.8	16.2
30-Jun-08	21	15	8	11	6	9	9	9	8	5	P	8	9	9	10	8	5	5	6	6	6	5	21	13	9.2	21.3
Hourly Avg	3.4	3.4	2.9	2.7	2.8	4.7	3.8	3.9	3.5	2.5	2.3	2.9	2.4	2.6	2.1	3.2	3.2	3.7	4.6	4.6	5.9	6.0	5.0	5.1		
Hourly Max	20.8	16.2	8.3	10.6	6.6	16.3	11.9	10.5	11.5	9.6	10.5	11.0	9.4	8.7	10.2	13.8	7.8	14.2	19.4	18.3	25.2	22.2	26.5	23.5		

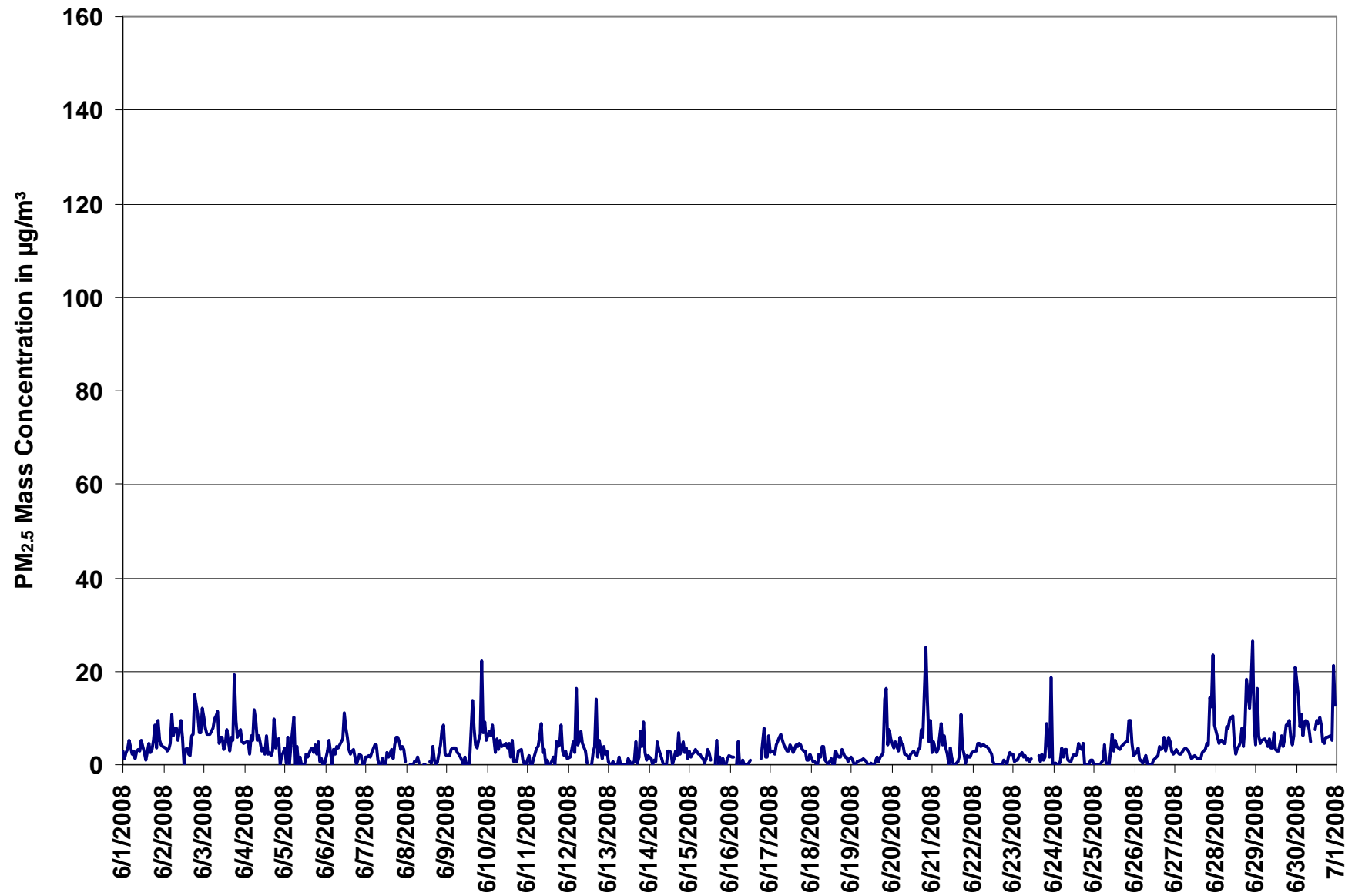


Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASAA

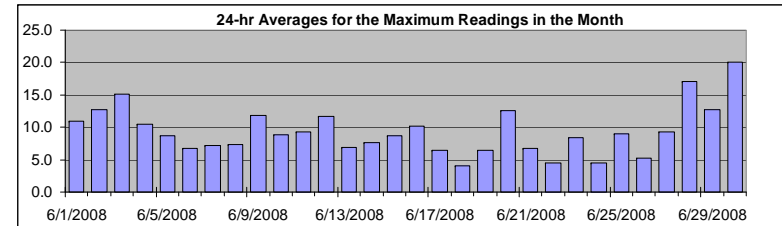
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	76.8	µg/m ³	20-Jun	20:00 21:00
Maximum 24-hr Value:	20.1	µg/m ³	30-Jun	



AIC Time:	0 hrs	Operational Time:	711 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	53.2	22.8	10.7	7.1	4.4	2.1	1.0	9.4 7 µg/m ³	8.7 µg/m ³

Status Flag Characters

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

Day Mountain Standard Time

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-Jun-08	8	6	8	8	9	6	7	8	9	9	8	11	10	9	14	14	14	12	18	31	15	16	7	5	11.0	30.9
2-Jun-08	6	5	7	6	7	20	9	14	12	10	16	19	13	11	12	11	11	12	13	33	27	9	9	14	12.7	32.6
3-Jun-08	13	9	9	8	10	13	15	14	21	18	17	16	13	11	13	18	19	20	42	15	10	12	15	8	15.1	42.1
4-Jun-08	7	10	7	6	13	8	19	17	11	12	11	8	7	17	10	11	12	7	28	8	9	5	3	5	10.5	28.3
5-Jun-08	8	5	10	2	11	16	12	12	9	15	12	11	4	10	8	8	8	8	10	10	11	3	4	2	8.7	16.0
6-Jun-08	2	6	7	5	2	6	6	7	9	7	15	19	11	9	7	5	6	8	4	3	5	6	2	2	6.7	18.6
7-Jun-08	3	3	3	4	5	6	6	7	4	2	5	8	6	10	8	10	7	18	19	14	7	5	5	6	7.2	18.9
8-Jun-08	3	7	8	4	2	4	3	6	7	5	4	7	9	7	7	9	9	7	4	4	11	21	22	4	7.4	21.6
9-Jun-08	4	4	4	6	8	10	10	6	4	11	7	10	9	6	6	31	16	10	10	13	22	40	13	21	11.8	40.3
10-Jun-08	7	10	9	14	9	7	8	5	7	6	7	9	8	15	17	18	12	9	8	8	7	5	2	5	8.9	18.1
11-Jun-08	7	6	4	4	5	7	6	9	13	8	8	10	11	11	9	9	7	13	18	14	20	9	5	8	9.3	20.3
12-Jun-08	6	4	8	9	7	23	6	9	11	10	16	12	11	5	7	9	12	40	25	28	3	6	5	5	11.6	40.4
13-Jun-08	3	2	2	3	1	1	5	5	4	1	5	6	7	7	4	10	11	4	7	14	8	30	19	3	6.8	29.5
14-Jun-08	4	3	4	5	3	10	8	5	5	6	6	14	9	8	4	12	14	11	20	7	10	5	5	6	7.7	20.5
15-Jun-08	5	4	5	7	7	4	4	6	8	4	7	15	23	17	8	12	20	15	8	10	5	3	1	9	8.7	23.4
16-Jun-08	10	3	6	0	3	10	4	4	5	5	5	7	10	C	C	C	C	C	22	16	52	10	11	12	10.3	52.3
17-Jun-08	6	5	4	5	8	11	13	14	7	6	5	4	7	5	4	7	8	8	8	5	5	4	4	2	6.4	13.9
18-Jun-08	6	2	3	2	2	5	3	7	7	5	1	2	4	2	2	7	4	4	4	8	5	6	2	3	4.0	8.4
19-Jun-08	3	3	1	1	2	3	2	4	2	2	3	3	3	2	2	7	2	6	6	6	28	34	8	23	6.5	34.3
20-Jun-08	13	6	6	6	6	10	8	7	8	6	3	4	4	5	4	4	7	6	20	13	77	46	7	25	12.5	76.8
21-Jun-08	4	11	6	4	13	16	8	11	8	9	4	6	3	3	1	3	5	21	9	4	3	4	4	3	6.7	20.8
22-Jun-08	4	5	5	9	6	6	7	6	7	7	5	6	2	3	3	2	0	2	2	3	1	3	8	7	4.5	8.5
23-Jun-08	4	3	3	3	4	4	4	3	2	3	3	3	C	C	C	5	2	7	2	4	26	15	4	71	8.4	71.1
24-Jun-08	3	2	2	1	5	7	5	5	6	6	2	3	4	6	4	9	9	7	6	2	3	3	3	3	4.5	9.5
25-Jun-08	1	1	1	1	3	3	10	3	3	2	32	31	7	9	8	11	8	9	7	6	6	19	22	12	8.9	31.9
26-Jun-08	3	5	5	3	3	2	3	6	2	2	2	3	5	8	7	7	6	10	10	5	11	7	5	4	5.2	11.2
27-Jun-08	5	5	4	4	4	5	5	5	5	5	3	3	5	4	4	4	6	5	7	7	6	28	24	68	9.2	68.0
28-Jun-08	10	8	6	7	8	6	7	15	10	18	18	11	6	6	8	12	16	9	16	55	38	52	53	15	17.1	55.5
29-Jun-08	14	59	10	7	9	8	7	8	8	8	7	14	8	4	6	18	7	15	20	14	18	8	8	21	12.8	59.5
30-Jun-08	57	66	41	24	12	13	19	13	15	15	P	10	14	12	22	17	8	8	11	9	9	7	44	18	20.1	65.5
Hourly Avg	7.7	9.0	6.6	5.6	6.2	8.4	7.6	8.0	7.7	7.4	8.3	9.5	8.1	8.0	7.5	10.4	9.2	10.8	12.8	12.3	15.3	14.0	10.8	13.0		
Hourly Max	57.1	65.5	41.4	24.3	13.3	23.0	18.8	16.6	20.9	18.5	31.9	30.9	23.4	17.4	22.2	30.9	20.4	40.4	42.1	55.5	76.8	52.2	53.3	71.1		

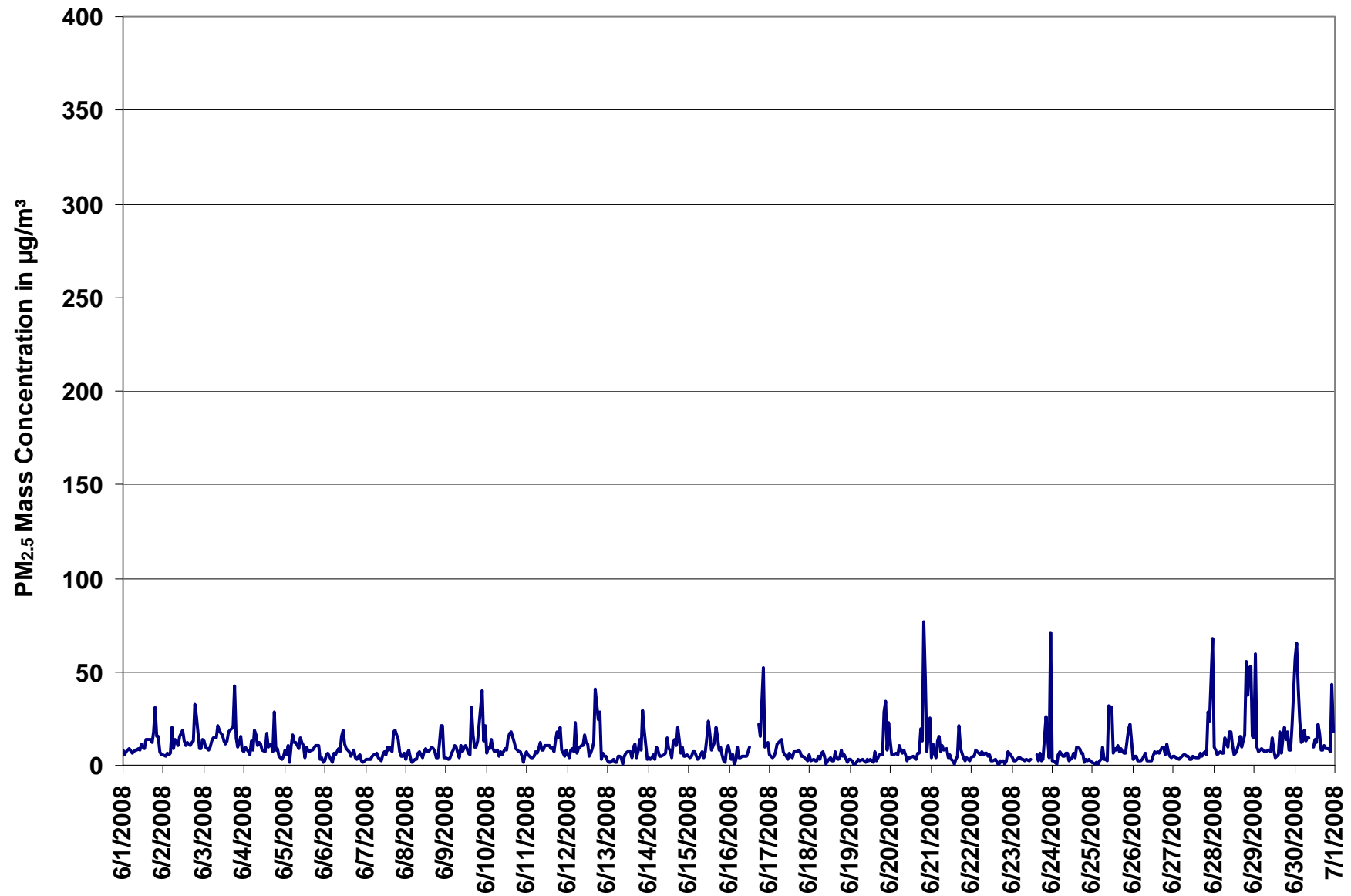
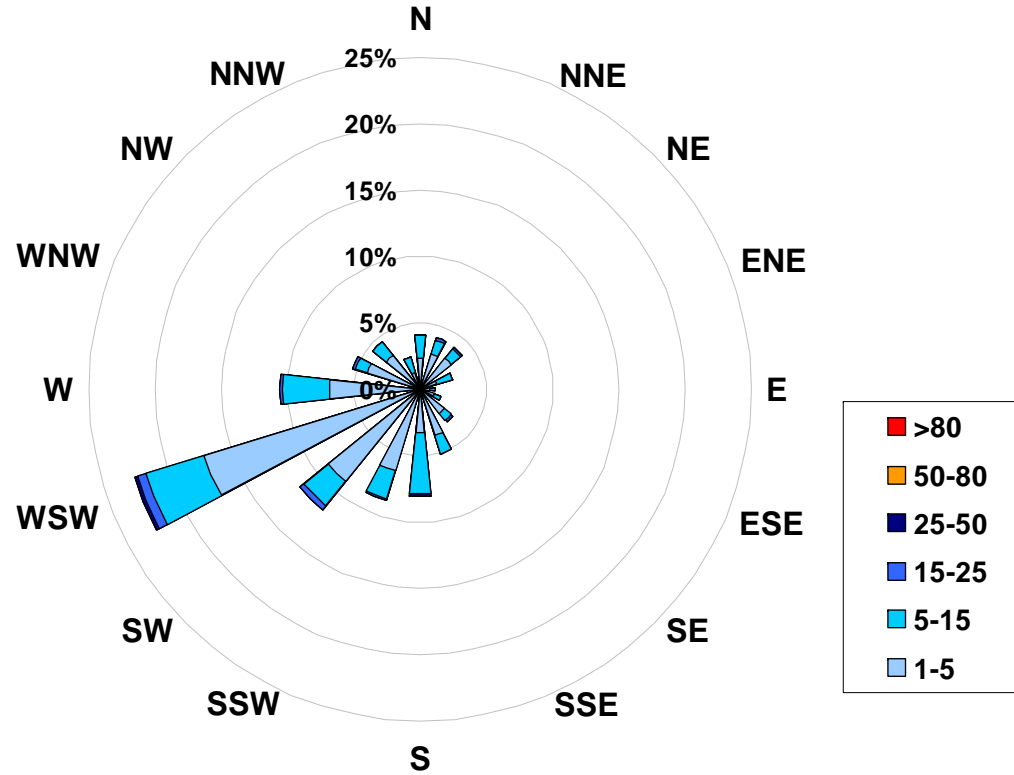


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 June 2008



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	531
5	to	15	157
15	to	25	12
25	to	50	2
50	to	80	0
	>	80	0
Total Non-Zero Values			702

PASZA - Smoky Heights Temperature Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

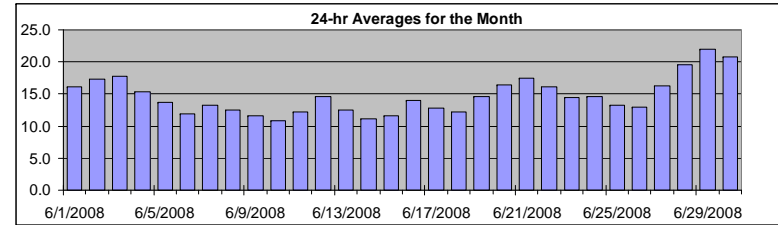
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	29.0	°C	29-Jun	17:00 18:00
Maximum 24-hr Value:	22.0	°C	29-Jun	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	27.6	24.3	18.6	14.5	10.1	6.4	3.0	14.7 °C	14.5 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			0:00
1-Jun-08	11	10	10	10	10	9	10	12	14	15	17	19	20	21	22	23	23	23	23	22	20	16	14	13	16.1	23.0	
2-Jun-08	12	10	8	7	6	8	11	12	15	17	19	22	24	24	25	25	25	25	24	23	21	19	18	16	17.4	25.1	
3-Jun-08	16	14	13	12	9	9	12	14	17	20	22	23	24	24	24	24	24	24	22	18	17	16	14	14	17.8	24.4	
4-Jun-08	13	11	10	8	8	7	9	14	16	17	18	20	20	21	21	21	21	21	19	18	17	15	14	12	15.4	21.0	
5-Jun-08	11	10	9	8	8	9	10	12	13	15	18	19	19	19	19	19	19	18	17	14	12	11	10	10	13.8	19.5	
6-Jun-08	9	8	9	9	8	9	10	11	12	12	13	13	13	13	14	14	15	14	15	14	13	13	13	13	11.9	14.7	
7-Jun-08	12	11	10	9	8	8	9	12	13	14	15	16	17	17	18	19	19	18	14	13	12	11	11	11	13.2	19.0	
8-Jun-08	10	10	9	8	5	7	8	9	11	13	15	15	16	17	17	17	17	17	17	16	15	12	9	7	12.4	17.3	
9-Jun-08	6	4	2	2	1	2	6	8	11	14	16	17	17	18	18	19	18	18	17	16	15	13	11	10	11.5	18.5	
10-Jun-08	10	9	10	9	9	9	9	9	9	10	10	11	12	13	13	13	13	15	15	14	13	12	10	9	7	10.9	14.7
11-Jun-08	7	6	5	4	4	5	6	8	9	10	13	16	18	18	19	19	19	20	20	19	17	14	11	9	12.2	19.9	
12-Jun-08	9	7	6	7	5	7	9	11	13	16	18	20	21	22	23	23	22	21	19	17	16	15	13	12	14.7	22.7	
13-Jun-08	13	13	11	10	10	10	10	11	12	13	15	15	16	17	17	17	16	15	15	13	12	8	7	6	12.5	16.9	
14-Jun-08	5	5	3	2	2	3	7	10	11	12	13	15	16	16	17	17	18	17	16	15	14	13	11	11	11.1	17.8	
15-Jun-08	11	9	9	8	9	10	10	11	11	12	13	13	14	13	15	15	14	15	14	14	12	10	8	8	11.6	14.9	
16-Jun-08	7	8	8	7	6	8	10	11	13	15	17	17	19	19	20	20	21	20	20	19	17	13	10	8	14.0	20.5	
17-Jun-08	10	11	12	13	10	9	11	14	15	15	16	17	16	15	15	15	16	15	14	12	11	10	9	8	12.9	16.7	
18-Jun-08	8	6	6	4	4	5	6	8	10	14	16	17	17	17	19	18	18	18	17	15	12	12	12	12	12.1	18.5	
19-Jun-08	11	10	10	10	10	10	9	11	13	15	16	17	18	19	20	20	20	20	20	20	18	14	10	9	14.6	20.4	
20-Jun-08	8	8	9	9	11	11	12	15	18	19	20	21	21	22	23	23	22	22	21	21	20	16	13	10	16.4	22.6	
21-Jun-08	10	9	8	9	7	11	13	15	17	19	20	22	24	26	26	27	24	21	19	19	19	18	18	17	17.4	26.7	
22-Jun-08	18	17	16	16	15	15	17	17	16	15	15	16	17	16	18	19	19	20	19	18	17	13	10	8	16.1	19.7	
23-Jun-08	6	7	7	8	6	8	11	13	15	16	17	18	19	20	21	21	21	21	21	21	20	18	13	11	8	14.5	21.3
24-Jun-08	8	6	5	4	4	7	11	13	16	18	20	21	20	22	23	22	21	19	19	17	16	15	13	11	14.6	22.5	
25-Jun-08	9	10	9	8	6	8	10	13	14	15	16	17	18	18	19	19	18	17	16	15	14	11	10	9	13.3	18.8	
26-Jun-08	11	12	12	10	10	10	9	8	9	10	12	14	15	16	17	17	17	17	17	16	15	13	11	12	12.9	17.2	
27-Jun-08	10	9	7	7	5	7	11	14	16	18	19	20	21	22	23	23	24	24	23	23	21	17	14	12	16.3	23.8	
28-Jun-08	11	11	10	9	10	10	12	14	16	20	22	26	27	27	27	27	27	28	28	26	23	21	21	20	19.6	27.7	
29-Jun-08	19	16	15	15	15	15	16	19	21	23	24	25	26	27	28	28	29	29	28	27	24	22	20	17	22.0	29.0	
30-Jun-08	14	14	14	13	13	13	15	19	22	23	24	26	26	27	27	28	28	27	26	25	22	19	17	16	20.8	27.9	
Hourly Avg	10.4	9.7	9.1	8.5	7.8	8.6	10.3	12.2	13.9	15.5	17.0	18.2	19.0	19.5	20.1	20.4	20.3	19.9	19.1	18.0	16.5	14.2	12.4	11.1			
Hourly Max	19.0	17.0	16.3	16.1	14.9	15.1	16.8	19.2	22.0	23.0	24.2	25.8	27.0	27.2	27.7	28.4	28.7	29.0	28.4	27.0	24.2	22.2	20.5	20.0			

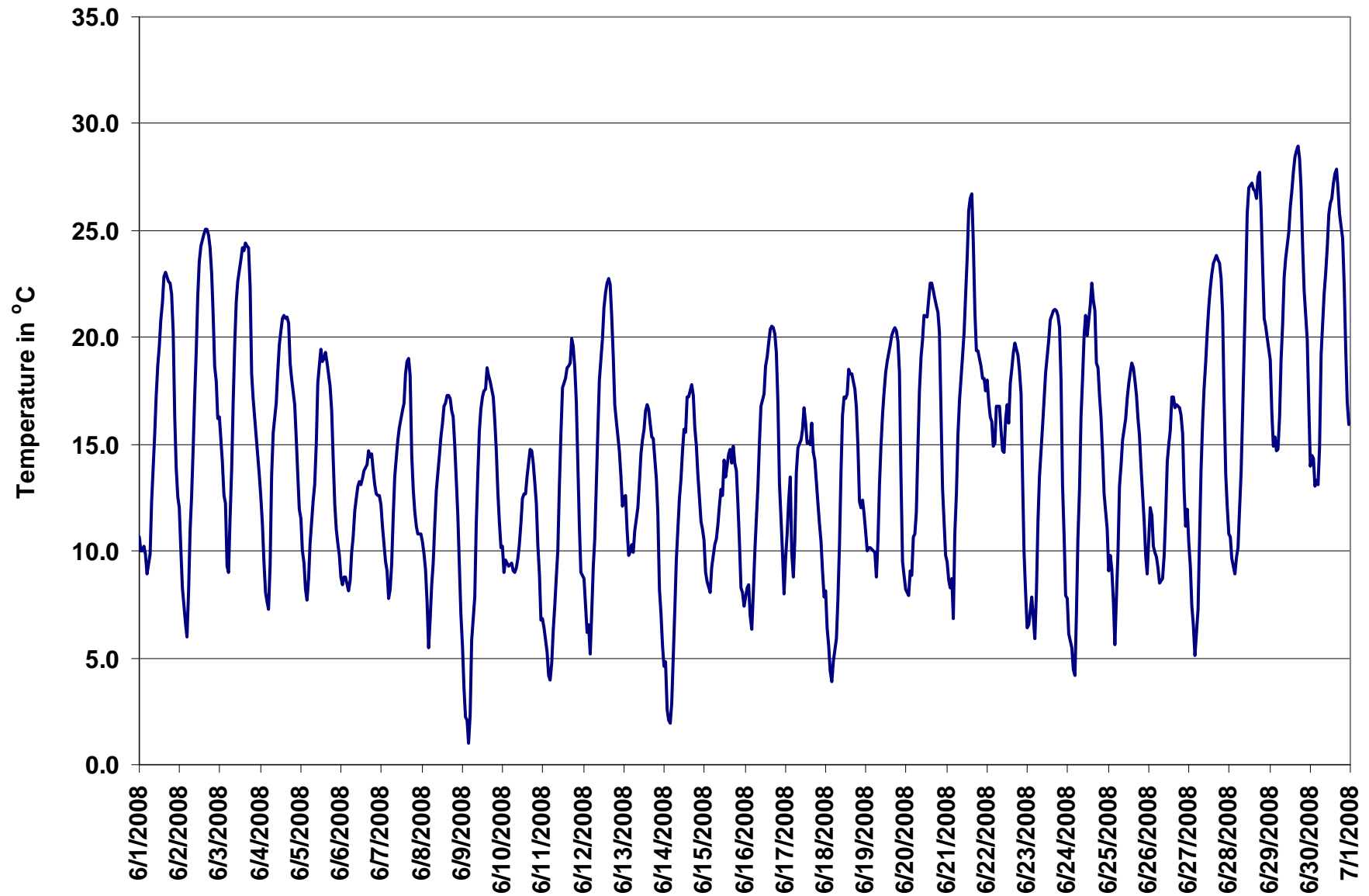


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend

PASZA - Smoky Heights Scalar Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

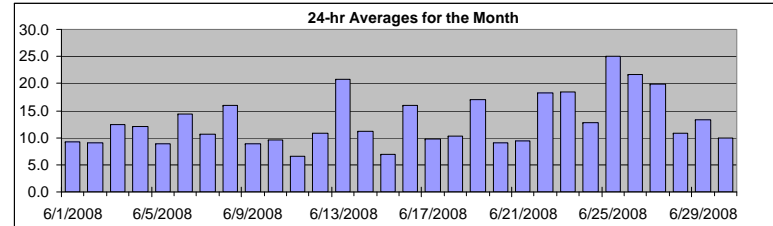
Wind Speed (WSs)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	39.4	km/hr	3-Jun	19:00 20:00
Maximum 24-hr Value:	25.0	km/hr	25-Jun	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	35.6	27.4	16.9	10.9	7.5	4.7	3.2	13.0 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		
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-Jun-08	8	5	5	8	6	7	6	10	16	15	18	17	15	11	9	7	6	9	7	5	4	11	11	8	9.2	17.7
2-Jun-08	9	6	6	4	3	8	7	7	7	10	8	8	11	12	12	11	11	12	11	11	11	9	12	14	9.1	13.6
3-Jun-08	14	10	4	9	6	3	8	7	6	8	9	7	9	8	9	12	16	12	28	39	28	21	12	14	12.5	39.4
4-Jun-08	9	11	8	8	7	6	9	8	9	9	11	11	12	18	16	15	21	21	19	18	13	15	12	6	12.1	20.7
5-Jun-08	7	7	9	9	6	6	9	7	10	8	6	7	7	5	6	7	15	17	12	20	11	7	8	9	8.9	20.2
6-Jun-08	12	8	7	5	7	7	14	9	11	13	15	20	18	18	19	20	19	21	19	18	19	17	14	16	14.5	21.3
7-Jun-08	17	13	13	13	9	8	8	12	15	19	15	16	14	11	8	7	6	6	17	7	8	3	5	6	10.6	18.7
8-Jun-08	4	9	7	6	8	13	18	15	19	18	23	19	17	23	22	21	19	19	22	21	17	14	12	13	15.9	22.8
9-Jun-08	13	14	12	6	6	6	7	10	6	7	8	8	10	10	9	10	12	10	13	9	6	10	8	7	9.0	13.6
10-Jun-08	9	10	9	8	8	14	15	12	11	10	9	7	9	9	8	11	15	15	13	8	4	4	5	6	9.6	15.3
11-Jun-08	5	6	4	4	4	6	9	8	6	8	5	6	6	9	11	14	7	7	7	8	7	5	4	3	6.6	14.5
12-Jun-08	6	6	7	8	9	8	9	10	8	9	10	9	9	13	17	17	11	7	15	21	18	11	10	13	10.9	21.3
13-Jun-08	14	17	13	12	17	25	20	21	26	31	31	33	30	29	25	25	30	20	24	16	8	7	11	13	20.7	33.5
14-Jun-08	12	11	10	11	6	6	10	11	14	17	15	11	6	8	8	7	8	5	18	19	23	16	11	8	11.2	22.7
15-Jun-08	7	6	8	4	8	8	7	6	6	6	5	6	8	12	11	10	10	9	5	6	4	5	5	3	6.9	12.4
16-Jun-08	6	8	13	11	11	13	18	21	21	23	25	24	21	25	25	23	21	22	18	13	6	7	5	4	16.0	24.9
17-Jun-08	9	12	14	11	5	5	6	7	6	6	7	5	11	20	18	14	14	15	15	8	7	3	5	9	9.7	20.2
18-Jun-08	9	8	7	5	5	4	8	7	9	10	9	14	15	12	13	12	9	10	10	13	16	12	16	17	10.4	17.3
19-Jun-08	21	16	19	18	19	21	17	19	26	24	22	22	20	19	20	19	18	17	13	10	5	5	9	9	17.0	26.3
20-Jun-08	7	8	9	13	15	10	7	6	12	11	11	8	9	10	12	13	10	10	10	8	7	4	3	5	9.1	15.0
21-Jun-08	7	6	5	5	4	4	3	5	7	11	11	13	12	15	17	17	10	15	10	9	11	10	9	10	9.4	16.9
22-Jun-08	12	8	4	9	7	14	16	18	18	14	14	14	22	28	29	25	30	33	35	30	24	12	11	9	18.2	35.2
23-Jun-08	11	12	17	15	12	16	21	22	29	28	28	25	25	25	24	25	22	22	19	16	10	8	5	4	18.4	29.3
24-Jun-08	5	2	6	6	3	4	4	6	6	10	9	14	11	7	14	25	26	28	26	27	21	16	14	15	12.8	27.7
25-Jun-08	16	19	17	16	12	15	15	29	36	37	38	36	34	35	36	36	36	35	32	27	14	8	9	9	25.0	37.7
26-Jun-08	14	17	21	15	17	23	24	18	20	25	26	28	21	24	32	32	26	22	25	22	17	14	15	20	21.6	32.4
27-Jun-08	20	19	16	15	12	13	15	20	25	27	26	25	27	27	27	24	24	25	23	20	14	11	10	11	19.9	27.4
28-Jun-08	10	8	7	9	8	7	7	9	10	12	13	14	23	19	19	12	10	9	10	11	10	10	7	9	10.9	22.6
29-Jun-08	11	7	8	7	6	8	8	11	16	20	21	20	22	21	19	21	22	18	16	10	5	8	5	7	13.3	22.0
30-Jun-08	7	12	13	14	14	7	6	5	8	13	12	10	12	14	11	11	10	13	11	9	8	6	6	6	9.9	14.4
1-hr Average	10.4	10.1	10.0	9.5	8.6	9.8	11.0	11.8	14.1	15.3	15.3	15.3	15.5	16.5	16.9	16.8	16.4	16.1	16.8	15.3	11.8	9.6	9.0	9.4		
Hourly Max	21.0	19.0	21.2	18.2	18.9	24.6	24.2	29.1	36.4	37.0	37.7	35.6	33.9	34.5	36.3	36.4	36.4	35.2	35.2	39.4	28.4	20.9	15.6	19.9		

PASZA - Smoky Heights Vector Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

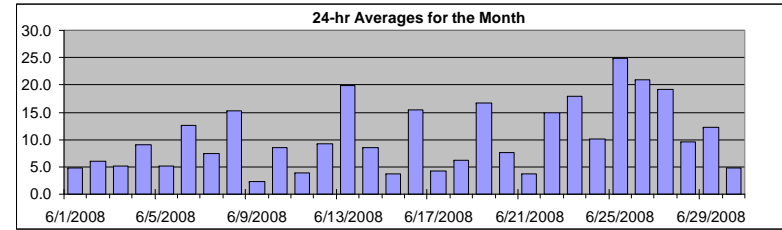
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	39.2	km/hr	3-Jun	19:00 20:00
Maximum 24-hr Value:	24.9	km/hr	25-Jun	



Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	34.9	26.7	16.8	10.1	6.8	3.2	1.8	58.1 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	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jun-08	3	4	4	7	3	3	5	9	15	15	17	16	14	10	6	4	3	8	7	5	3	11	10	8	4.8	17.3	
2-Jun-08	8	6	5	3	3	8	7	7	7	10	7	7	10	11	9	10	9	11	11	11	11	8	11	13	6.0	13.3	
3-Jun-08	14	10	3	9	5	3	7	6	6	1	6	5	7	5	8	11	16	12	23	39	28	21	12	14	5.1	39.2	
4-Jun-08	8	5	7	8	6	6	9	7	9	8	10	10	11	17	15	14	20	20	16	18	12	15	12	6	9.1	20.3	
5-Jun-08	7	7	9	9	5	6	8	6	9	7	3	4	4	3	3	7	13	16	10	20	9	6	7	8	5.1	20.1	
6-Jun-08	12	5	6	5	7	7	14	9	10	13	15	20	18	18	18	20	18	21	19	18	19	17	14	15	12.6	21.0	
7-Jun-08	17	13	13	13	9	8	7	12	15	18	14	15	14	10	4	5	3	3	15	4	8	2	5	5	7.4	18.4	
8-Jun-08	3	8	7	6	8	13	18	15	19	18	22	18	17	22	22	21	18	19	22	21	17	14	12	13	15.4	22.2	
9-Jun-08	13	14	12	5	5	5	6	9	5	6	5	3	8	6	8	9	11	10	13	9	6	10	6	5	2.3	13.6	
10-Jun-08	8	10	9	7	7	14	15	12	11	10	9	7	8	8	8	11	14	15	13	8	1	3	5	5	8.4	15.1	
11-Jun-08	4	5	2	3	3	5	9	7	6	7	4	5	2	6	10	14	5	5	4	7	7	5	3	3	4.0	13.9	
12-Jun-08	6	6	6	8	9	8	8	10	8	9	10	8	6	11	16	16	9	7	13	21	18	11	10	13	9.2	20.8	
13-Jun-08	14	17	13	12	17	24	20	20	26	31	31	33	29	28	24	24	29	20	24	15	7	6	11	12	19.8	33.2	
14-Jun-08	12	10	9	11	4	5	10	10	13	16	14	7	4	5	6	6	2	3	18	19	21	16	10	7	8.5	21.1	
15-Jun-08	6	5	8	3	8	8	6	5	6	6	1	4	3	12	10	9	9	5	6	3	5	4	2	2	3.7	11.7	
16-Jun-08	6	8	13	11	11	13	18	21	20	23	24	24	19	24	24	23	20	22	17	13	6	7	5	2	15.4	24.3	
17-Jun-08	9	12	13	7	4	2	6	7	4	6	7	5	7	19	17	14	13	15	6	8	7	2	5	9	4.3	19.0	
18-Jun-08	9	8	5	1	3	3	8	7	8	9	9	12	15	12	11	7	8	9	10	10	16	12	15	17	6.3	16.9	
19-Jun-08	21	16	18	18	19	21	17	19	26	23	21	21	19	19	19	19	17	16	13	10	5	4	9	8	16.7	26.1	
20-Jun-08	7	8	9	13	15	9	6	6	11	10	10	5	8	8	9	11	9	9	10	8	7	3	2	5	7.6	15.0	
21-Jun-08	7	5	5	4	4	4	2	4	7	10	9	13	12	14	16	16	10	8	10	9	10	10	9	10	3.7	16.3	
22-Jun-08	12	8	2	9	7	12	15	18	18	14	13	14	22	28	29	25	30	33	35	30	24	12	11	9	14.9	34.9	
23-Jun-08	11	12	17	15	11	15	21	22	29	27	28	24	24	24	23	24	21	22	19	16	10	8	5	4	17.9	29.0	
24-Jun-08	5	2	5	6	2	3	4	6	6	9	8	13	10	2	14	24	25	28	26	27	21	16	14	15	10.1	27.6	
25-Jun-08	16	19	17	16	11	15	15	29	36	37	37	35	33	34	36	36	36	35	32	27	14	8	8	9	24.9	37.3	
26-Jun-08	14	17	21	15	17	23	24	17	20	25	26	27	20	23	31	32	26	22	24	22	17	14	15	20	20.9	32.0	
27-Jun-08	20	19	15	15	11	13	15	19	25	27	26	25	26	27	26	23	24	24	22	20	14	11	10	11	19.2	27.1	
28-Jun-08	10	7	7	8	8	7	7	9	10	12	12	12	22	19	18	12	10	8	9	10	10	10	7	7	9.6	22.0	
29-Jun-08	10	7	8	7	5	8	7	11	15	20	20	19	21	20	19	20	21	17	16	10	5	7	5	7	12.2	21.2	
30-Jun-08	6	12	13	14	14	6	6	4	5	12	11	9	11	13	9	7	9	12	11	9	8	6	6	6	4.8	14.2	
1-hr Vector	6.7	6.7	7.8	7.4	6.8	7.5	8.8	8.5	9.5	10.2	9.9	9.7	9.7	9.8	10.9	9.8	9.2	9.4	10.1	9.0	6.3	5.1	5.0	6.1			
Hourly Max	20.8	19.0	21.1	18.2	18.8	24.5	24.1	28.8	36.1	36.6	37.3	34.9	33.5	33.7	35.5	35.9	35.9	34.8	34.9	39.2	28.1	20.7	15.4	19.9			

PASZA - Smoky Heights Wind Direction Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	355.3	319.1	257.7	236.2	181.0	33.8	7.6	244 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	0:00	
1-Jun-08	145	110	41	293	291	60	196	126	145	147	145	141	149	152	195	200	197	207	185	183	93	4	23	25	147	SSE
2-Jun-08	31	14	358	312	266	246	217	179	170	168	160	167	165	147	126	146	154	150	156	141	90	109	116	121	144	SE
3-Jun-08	154	169	200	176	211	172	200	191	165	220	9	76	79	105	91	115	143	175	232	258	256	275	329	319	216	SW
4-Jun-08	348	100	245	240	224	256	261	210	191	218	222	235	254	233	237	246	237	231	153	149	177	201	202	184	217	SW
5-Jun-08	197	183	178	191	206	186	249	207	232	195	56	19	349	116	228	71	110	144	197	247	197	143	237	210	192	SSW
6-Jun-08	251	243	223	194	232	235	240	227	290	299	296	305	307	303	310	316	308	308	313	319	313	293	289	307	293	WNW
7-Jun-08	300	287	287	289	243	231	235	292	289	291	294	283	294	321	355	356	8	175	228	55	69	129	227	251	286	WNW
8-Jun-08	194	268	261	190	212	254	251	241	239	253	261	240	240	240	236	240	254	260	258	260	266	267	267	260	250	WSW
9-Jun-08	264	260	258	223	176	219	150	158	146	108	50	34	87	87	85	61	45	27	45	61	5	17	351	291	54	NE
10-Jun-08	334	29	52	14	24	13	343	344	351	4	350	359	1	28	30	360	18	31	36	51	72	1	3	236	11	N
11-Jun-08	312	320	284	139	241	198	210	198	203	153	170	164	151	195	261	263	252	263	46	150	183	228	239	240	217	SW
12-Jun-08	259	188	201	218	218	209	196	172	169	166	172	195	200	203	227	222	199	176	256	258	260	259	251	255	220	SW
13-Jun-08	243	253	259	233	225	235	236	230	237	237	239	237	231	236	243	238	250	245	247	314	321	250	253	254	243	WSW
14-Jun-08	259	269	211	223	207	245	246	180	227	230	230	264	209	292	245	243	254	66	207	227	276	341	319	319	247	WSW
15-Jun-08	4	245	283	299	339	349	10	340	310	317	249	235	37	61	71	84	32	52	37	47	52	304	285	324	5	N
16-Jun-08	216	217	231	231	250	233	234	232	236	246	251	250	251	234	237	233	251	250	258	285	280	287	297	252	245	WSW
17-Jun-08	283	261	267	321	53	313	267	230	92	23	8	42	191	201	199	188	218	208	298	18	35	290	238	255	247	WSW
18-Jun-08	271	275	298	237	271	199	198	191	154	164	216	204	229	210	226	337	25	23	346	204	199	224	229	244	229	SW
19-Jun-08	261	249	249	229	233	238	225	241	250	251	252	249	228	234	231	227	230	236	240	238	232	251	260	241	241	WSW
20-Jun-08	242	249	250	258	258	243	195	166	223	231	226	196	203	165	171	196	178	173	171	193	190	219	274	255	213	SSW
21-Jun-08	275	253	218	244	217	224	173	137	123	166	140	126	125	126	122	102	99	272	27	20	20	39	39	47	110	ESE
22-Jun-08	60	52	133	180	188	232	285	310	298	272	279	268	266	271	259	271	256	249	248	244	244	240	240	262	260	W
23-Jun-08	243	254	255	247	262	235	232	241	237	242	237	234	236	231	233	237	249	244	248	267	271	275	320	282	244	WSW
24-Jun-08	301	301	250	268	281	239	143	161	146	127	155	157	184	253	203	239	260	260	241	239	237	228	214	239	229	SW
25-Jun-08	253	253	252	252	233	232	229	240	246	248	247	241	242	245	246	245	246	241	246	250	248	245	267	243	245	WSW
26-Jun-08	257	255	259	256	247	240	246	243	239	236	241	252	265	288	277	271	276	282	271	259	245	253	256	254	258	WSW
27-Jun-08	254	255	251	253	221	196	196	229	244	243	242	229	244	254	244	249	258	251	237	239	239	254	240	248	242	WSW
28-Jun-08	242	214	236	212	195	212	212	178	173	178	177	208	227	228	228	206	189	189	218	258	241	218	247	318	215	SW
29-Jun-08	296	255	268	258	237	235	236	228	247	257	260	258	264	254	257	270	266	273	275	292	305	341	360	313	265	W
30-Jun-08	268	271	269	263	263	175	181	211	34	339	327	344	338	355	357	360	13	42	49	58	75	60	45	26	345	NNW
Hourly Avg	264	254	253	243	238	234	232	225	233	237	243	238	239	238	238	245	249	246	247	252	252	267	267	266		

PASZA - Smoky Heights Standard Deviation of Wind Direction Monthly Summary

Station: Smoky Heights
 Station Owner: PASAA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	84.5	61.9	26.0	14.7	9.1	4.8	3.1

Status Flag Characters

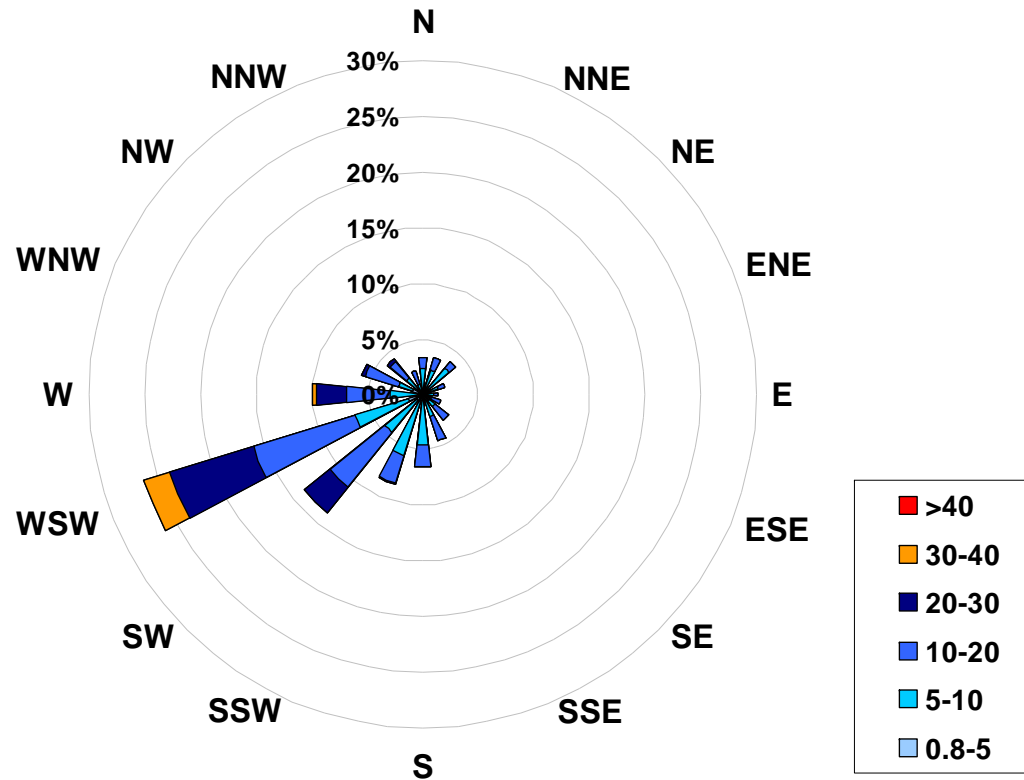
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jun-08	83	34	48	20	58	62	26	20	11	14	12	18	18	30	61	74	72	34	27	26	41	7	12	9	82.5	
2-Jun-08	13	9	22	44	25	13	17	15	14	13	21	27	36	32	43	30	34	23	18	7	13	13	8	12	43.6	
3-Jun-08	8	9	37	11	30	49	25	20	33	87	52	61	48	69	28	33	16	21	42	6	9	8	19	8	87.3	
4-Jun-08	12	65	28	21	37	19	8	24	20	33	26	31	25	17	20	22	10	15	32	11	8	4	7	13	65.4	
5-Jun-08	12	8	7	13	20	16	33	34	31	29	74	61	68	65	69	35	24	14	33	6	49	32	30	12	74.1	
6-Jun-08	9	75	31	24	9	16	7	10	24	11	13	8	11	13	10	9	12	9	9	8	7	6	7	7	75.3	
7-Jun-08	7	7	5	7	9	6	11	12	15	10	19	16	17	28	58	49	72	71	31	69	15	55	33	33	71.8	
8-Jun-08	35	25	7	23	13	44	3	8	7	9	15	16	14	12	15	13	19	15	12	9	4	3	4	6	43.8	
9-Jun-08	4	5	9	26	16	13	11	13	35	37	54	91	40	56	33	38	21	15	14	17	10	11	51	53	91.0	
10-Jun-08	18	14	12	28	23	16	8	8	12	11	12	15	19	23	16	18	15	9	11	17	72	31	18	33	72.4	
11-Jun-08	57	24	89	48	45	26	12	15	21	14	37	41	88	49	26	17	54	47	50	21	11	24	57	23	89.3	
12-Jun-08	9	28	20	5	8	6	23	11	16	16	22	26	57	37	19	17	34	17	41	16	4	7	6	5	56.6	
13-Jun-08	9	4	3	15	7	5	5	10	9	9	12	8	11	15	16	15	11	10	11	17	13	30	4	5	30.3	
14-Jun-08	4	32	19	8	52	32	10	24	14	16	18	55	71	77	51	45	85	57	18	9	22	9	19	34	84.6	
15-Jun-08	24	30	6	43	6	10	19	23	19	37	83	52	88	20	18	20	26	14	23	19	65	25	23	77	88.2	
16-Jun-08	11	8	7	11	8	6	5	6	12	7	10	12	20	16	15	14	18	9	17	15	12	5	15	75	75.3	
17-Jun-08	6	10	16	50	40	72	17	20	56	22	24	33	57	21	10	10	17	8	69	11	21	43	25	11	72.0	
18-Jun-08	9	9	53	82	60	62	16	23	12	24	24	34	15	15	32	56	26	15	12	69	10	14	8	11	82.4	
19-Jun-08	7	4	12	4	4	5	4	10	6	8	14	15	17	13	19	18	19	14	13	8	16	26	11	30	30.4	
20-Jun-08	20	7	10	3	3	13	20	18	14	22	33	70	28	53	44	30	43	23	14	10	6	45	62	12	70.2	
21-Jun-08	4	28	22	16	30	15	62	51	19	28	36	12	15	23	17	20	10	93	9	6	9	6	10	5	92.9	
22-Jun-08	6	36	84	21	15	35	23	11	10	7	8	9	10	7	8	9	12	8	6	7	4	9	9	13	84.3	
23-Jun-08	7	8	9	7	19	14	5	8	8	8	11	13	13	12	14	15	12	12	11	7	12	8	17	29	29.1	
24-Jun-08	23	50	15	11	51	43	20	13	29	13	28	20	21	90	18	19	10	6	9	6	4	6	6	7	90.2	
25-Jun-08	4	3	5	3	13	3	8	7	7	8	9	12	9	12	11	9	9	9	7	7	8	11	19	19	19.4	
26-Jun-08	4	10	6	6	5	5	5	6	8	6	9	11	20	31	9	9	10	9	8	9	6	4	3	3	31.1	
27-Jun-08	2	2	5	4	11	4	5	14	9	8	11	12	16	12	14	15	15	11	11	6	5	11	19	8	19.1	
28-Jun-08	18	19	14	16	11	10	14	12	11	10	14	40	13	16	18	17	8	24	25	14	11	7	18	32	40.1	
29-Jun-08	10	20	9	19	30	15	12	9	15	12	16	16	13	14	17	18	16	18	9	16	9	35	20	15	34.7	
30-Jun-08	41	8	8	6	14	27	15	38	64	15	26	25	27	23	37	52	29	14	15	8	9	9	13	13	63.8	

Hourly Max	83	75	89	82	60	72	62	51	64	87	83	91	88	90	69	74	85	93	69	69	72	55	62	77
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1-hr Average Wind Rose (in km/hr) Located at the Smoky Heights Site for June 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	46
5	to	10	270
10	to	20	281
20	to	30	103
30	to	40	20
	>	40	0
Total Non-Zero Values			720

PASZA
Beaverlodge Station
Monthly Summary Tables, Graphs and
Roses

PASZA - Beaverlodge Sulphur Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

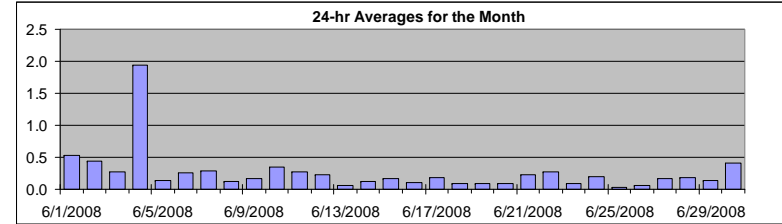
Sulphur Dioxide (SO₂)

Monitoring Dates: June 1, 2008 to July 1, 2008

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:	33.3 ppb 4-Jun 16:00 17:00
Maximum 24-hr Average:	1.9 ppb 4-Jun



AIC Time:	31 hrs	Operational Time:	683 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.9	0.6	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	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	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-Jun-08	0:00	1:00	0	0	1	1	A	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	0.5	1.1
2-Jun-08	1:00	2:00	1	0	0	0	A	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0.4	0.6
3-Jun-08	2:00	3:00	1	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7
4-Jun-08	3:00	4:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	3	33	4	0	0	0	0	0	0	0	1.9	33.3
5-Jun-08	4:00	5:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
6-Jun-08	5:00	6:00	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
7-Jun-08	6:00	7:00	0	0	0	0	A	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8
8-Jun-08	7:00	8:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
9-Jun-08	8:00	9:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
10-Jun-08	9:00	10:00	0	0	0	1	A	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.4
11-Jun-08	10:00	11:00	0	0	0	0	A	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
12-Jun-08	11:00	12:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
13-Jun-08	12:00	13:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
14-Jun-08	13:00	14:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
15-Jun-08	14:00	15:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
16-Jun-08	15:00	16:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
17-Jun-08	16:00	17:00	0	0	0	0	A	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
18-Jun-08	17:00	18:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
19-Jun-08	18:00	19:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
20-Jun-08	19:00	20:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
21-Jun-08	20:00	21:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
22-Jun-08	21:00	22:00	1	1	0	0	A	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8
23-Jun-08	22:00	23:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
24-Jun-08	23:00	0:00	0	1	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8
25-Jun-08	0:00	1:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
26-Jun-08	1:00	2:00	0	0	0	0	A	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
27-Jun-08	2:00	3:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
28-Jun-08	3:00	4:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
29-Jun-08	4:00	5:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
30-Jun-08	5:00	6:00	1	0	0	0	A	0	0	1	1	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0.4	0.9
Hourly Avg			0.2	0.2	0.2	0.2	N	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	1.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Hourly Max			0.9	0.7	0.7	1.0	0.0	0.7	1.4	1.4	0.8	0.8	0.8	0.7	0.5	0.5	0.4	3.0	33.3	4.4	0.4	0.5	0.5	0.6	0.7	0.8			

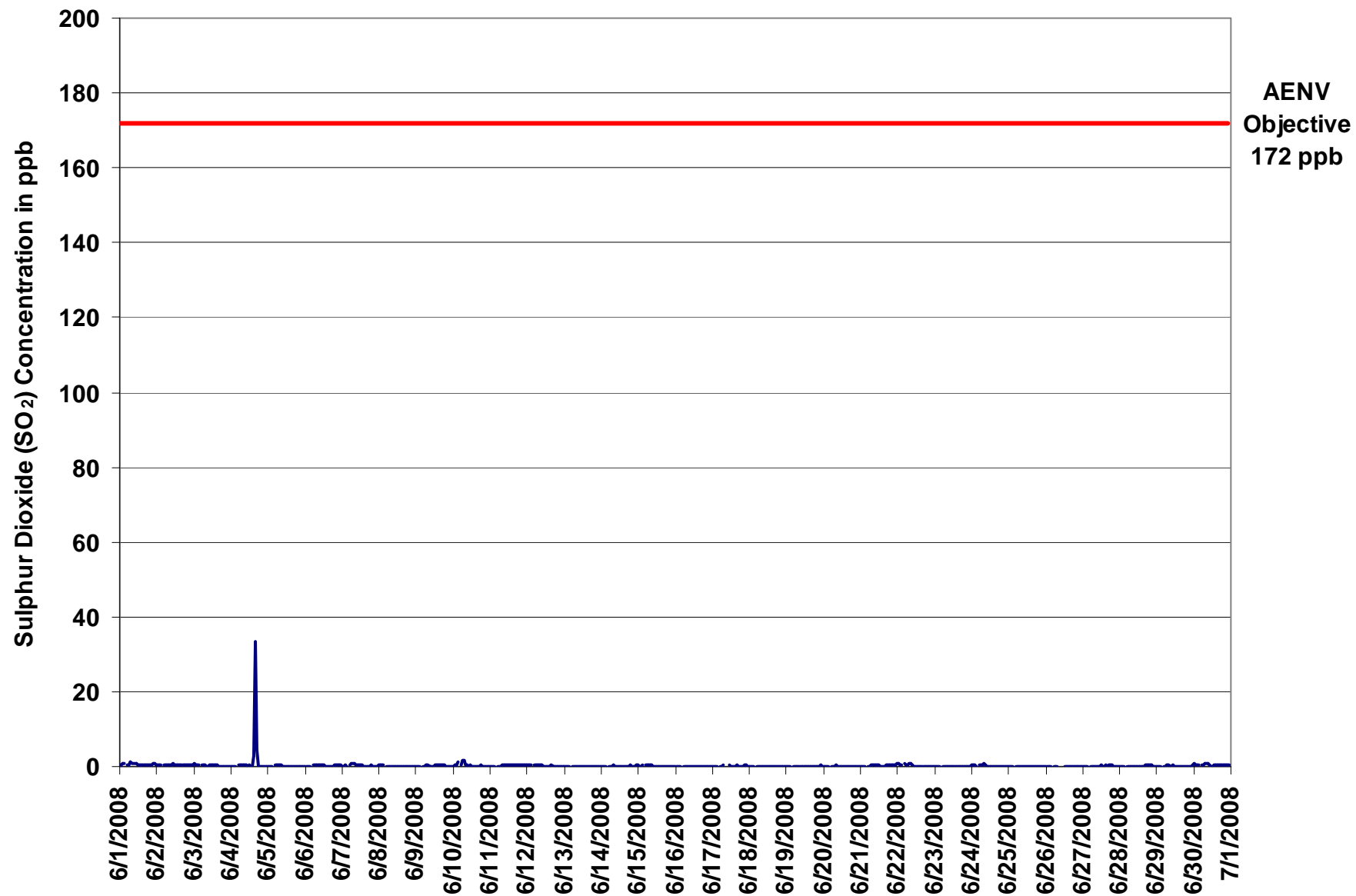


Figure 34. PASZA - Beaverlodge Sulphur Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

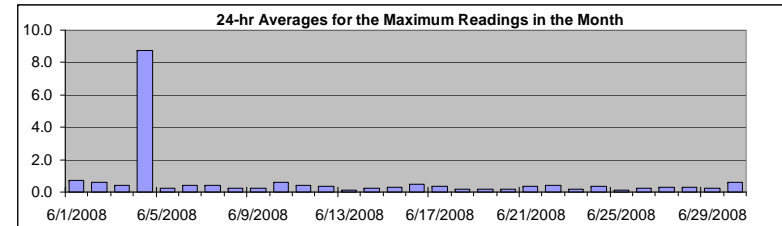
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	99.9	ppb	4-Jun	16:00 17:00
Maximum 24-hr Value:	8.7	ppb	4-Jun	



AIC Time:	31 hrs	Operational Time:	683 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.1	0.8	0.4	0.2	0.1	0.1		0.6 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

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-Jun-08	0	0	1	1	A	0	0	3	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0.7	2.6
2-Jun-08	1	1	1	1	A	0	0	1	1	1	1	1	1	0	0	0	0	0	1	0	0	1	1	1	0.6	0.8
3-Jun-08	1	1	1	0	A	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.4	0.8
4-Jun-08	0	0	0	0	A	0	0	1	0	0	0	0	1	0	0	26	100	68	0	0	0	0	0	0	8.7	99.9
5-Jun-08	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
6-Jun-08	0	0	0	0	A	0	1	1	0	1	1	0	1	0	0	0	0	0	0	0	1	1	1	1	0.4	0.7
7-Jun-08	0	0	1	0	A	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.1
8-Jun-08	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
9-Jun-08	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
10-Jun-08	0	0	1	2	A	0	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	2.9
11-Jun-08	0	0	0	0	A	0	0	0	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0.4	0.8
12-Jun-08	1	0	0	0	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
13-Jun-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
14-Jun-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	0.7
15-Jun-08	1	0	0	0	A	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7
16-Jun-08	0	0	0	0	A	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0.5	3.4
17-Jun-08	0	0	0	0	A	0	0	0	C	C	C	1	0	0	0	1	0	0	0	0	1	0	0	0	0.4	1.1
18-Jun-08	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
19-Jun-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.2	0.9
20-Jun-08	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
21-Jun-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0.3	0.6
22-Jun-08	1	1	1	1	A	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.0
23-Jun-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
24-Jun-08	0	1	0	0	A	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.1
25-Jun-08	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
26-Jun-08	0	0	0	0	A	0	0	0	C	C	C	A	0	1	0	0	0	0	0	0	0	0	0	0	0.2	0.6
27-Jun-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
28-Jun-08	0	0	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.1
29-Jun-08	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
30-Jun-08	1	1	0	0	A	0	1	1	1	1	1	0	0	0	0	1	1	0	0	1	1	1	0	0	0.6	1.1
Hourly Avg	0.3	0.3	0.3	0.3	N	0.3	0.4	0.6	0.5	0.4	0.4	0.4	0.3	0.4	0.4	1.1	3.6	2.5	0.3	0.3	0.3	0.3	0.3	0.3		
Hourly Max	1.1	1.0	1.2	1.6	0.0	1.0	2.0	2.9	1.1	1.0	0.8	1.1	0.7	3.3	3.4	25.9	99.9	68.3	0.5	0.7	0.7	0.9	0.9	0.9		

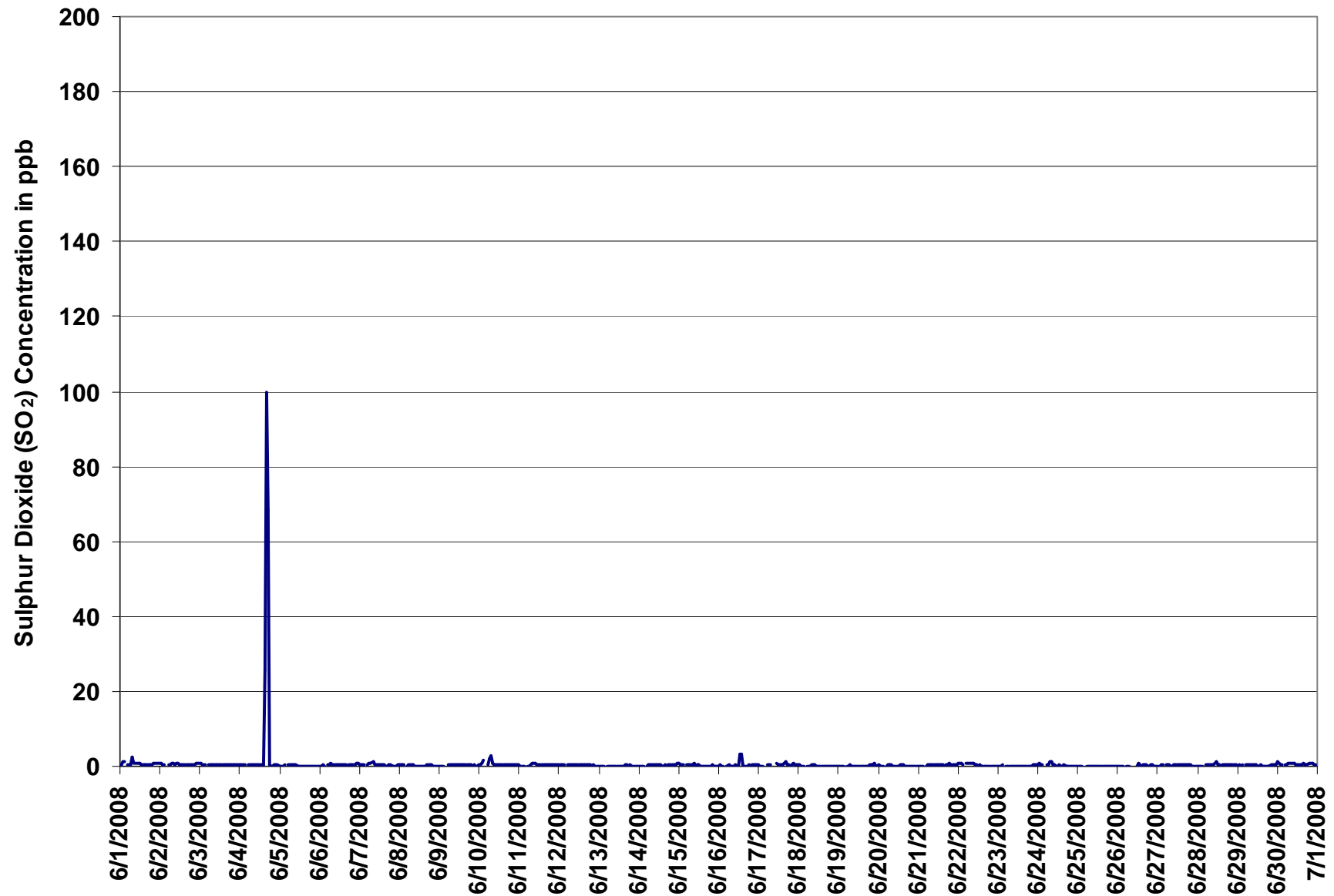
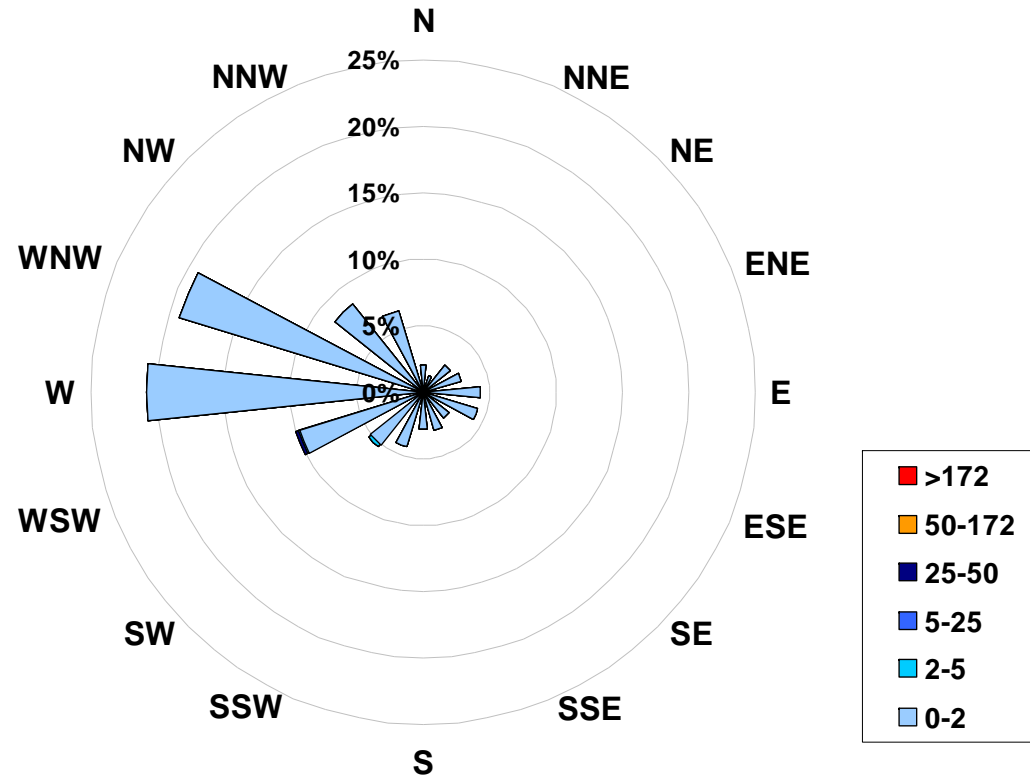


Figure 35. PASZA - Beaverlodge Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Beaverlodge Site for June 2008



Calms: 0%

Frequency Distribution of SO ₂ in ppb Range			Frequency (hrs)
0.0	<	2	680
2	to	5	2
5	to	25	0
25	to	50	1
50	to	172	0
	>	172	0
Total Non-Zero Values			683

PASZA - Beaverlodge Nitrogen Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

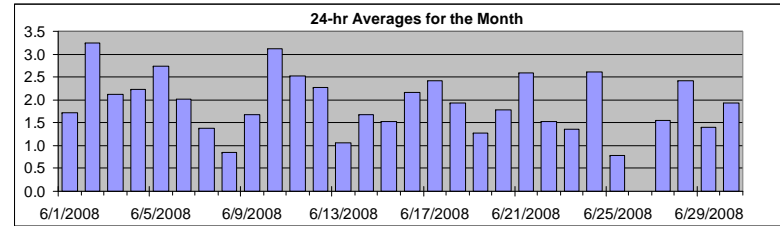
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: June 1, 2008 to July 1, 2008

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:	9.3	ppb	10-Jun	6:00 7:00
Maximum 24-hr Average:	3.3	ppb	2-Jun	



AIC Time:	31 hrs	Operational Time:	681 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	6.6	5.2	2.6	1.3	0.9	0.5	0.2	1.9 ppb	1.3 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jun-08	2	2	2	2	A	2	3	2	2	2	2	2	1	1	1	1	1	1	1	1	2	2	3	3	1.7	2.7	
2-Jun-08	3	6	5	5	A	9	6	7	6	5	4	1	1	1	1	1	1	1	1	1	2	3	3	2	3.3	9.2	
3-Jun-08	3	4	2	2	A	5	7	2	2	1	1	1	1	1	1	1	1	2	1	2	2	3	2	2	2.1	6.6	
4-Jun-08	3	4	6	4	A	4	4	2	3	1	0	1	1	1	1	1	1	2	2	2	2	2	3	2	2.2	5.7	
5-Jun-08	3	3	3	5	A	5	6	2	3	2	2	2	1	1	1	1	2	1	1	1	4	5	4	3	2.7	6.2	
6-Jun-08	4	2	3	3	A	7	5	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1	2	2	2.0	6.5	
7-Jun-08	2	2	3	2	A	3	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.4	2.8	
8-Jun-08	1	1	1	2	A	2	2	1	1	1	0	0	0	0	0	0	0	1	1	1	1	2	1	1	0.9	2.0	
9-Jun-08	1	1	2	3	A	3	4	3	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1.7	3.9	
10-Jun-08	2	7	5	3	A	6	9	5	5	3	1	1	1	1	1	1	2	2	1	2	3	3	3	3	3.1	9.3	
11-Jun-08	3	4	4	4	A	3	3	3	3	3	2	1	1	1	1	1	1	1	1	1	3	4	4	4	2.5	4.5	
12-Jun-08	4	3	4	4	A	5	5	4	3	2	2	1	1	1	1	1	1	2	1	1	1	2	3	1	2.3	5.2	
13-Jun-08	1	1	1	1	A	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1.1	2.6	
14-Jun-08	2	1	3	2	A	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	4	4	1.7	4.4
15-Jun-08	3	2	2	3	A	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	3	1.5	3.3	
16-Jun-08	3	4	4	3	A	6	4	2	1	1	1	1	1	1	1	1	1	1	1	1	2	4	3	5	2.2	5.9	
17-Jun-08	5	2	2	2	A	4	3	4	C	C	C	3	3	2	2	2	2	2	1	2	2	3	2	3	2.4	5.2	
18-Jun-08	5	6	4	3	A	3	4	2	2	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1.9	5.5	
19-Jun-08	1	1	1	1	A	2	1	1	1	1	1	0	0	1	1	0	1	1	1	1	2	4	5	2	1.3	5.2	
20-Jun-08	2	2	2	2	A	3	3	3	2	1	1	1	1	1	1	1	1	1	1	1	3	3	3	2	1.8	3.3	
21-Jun-08	2	1	2	2	A	4	6	6	6	6	4	4	2	1	1	1	1	1	1	1	1	1	2	2	2.6	6.1	
22-Jun-08	2	5	6	4	A	3	2	2	2	2	1	1	1	1	1	1	0	0	0	0	1	1	1	0	1.5	5.5	
23-Jun-08	0	3	2	5	A	1	1	1	0	0	0	0	0	1	0	0	0	0	1	1	4	4	3	1	1.4	4.6	
24-Jun-08	3	4	3	7	A	7	7	7	8	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2.6	7.6	
25-Jun-08	1	1	2	2	A	2	1	1	0	0	0	0	0	0	0	0	1	1	0	0	1	1	1	0	0.8	2.2	
26-Jun-08	1	1	1	1	A	1	1	1	C	C	C	C	C	A	1	1	1	1	1	1	1	1	1	1	N	1.4	
27-Jun-08	1	2	2	3	A	3	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	4	1.5	4.2	
28-Jun-08	6	3	5	4	A	3	5	5	4	3	3	2	2	1	1	1	1	1	1	1	1	2	2	1	2.4	6.4	
29-Jun-08	1	1	1	2	A	4	3	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1.4	3.6	
30-Jun-08	1	3	3	5	A	3	4	4	3	2	2	1	1	1	1	1	1	1	1	1	2	2	2	2	1.9	5.1	
Hourly Avg	2.4	2.8	2.8	3.0	N	3.7	3.7	2.7	2.3	1.7	1.3	1.2	1.0	0.9	0.9	0.9	1.0	0.9	1.0	1.2	1.7	2.2	2.2	2.1			
Hourly Max	6.4	6.8	5.7	7.1	0.0	9.2	9.3	6.8	7.6	6.1	4.5	4.3	2.8	1.8	1.7	1.9	1.8	1.5	1.8	2.9	4.2	5.2	5.2	4.5			

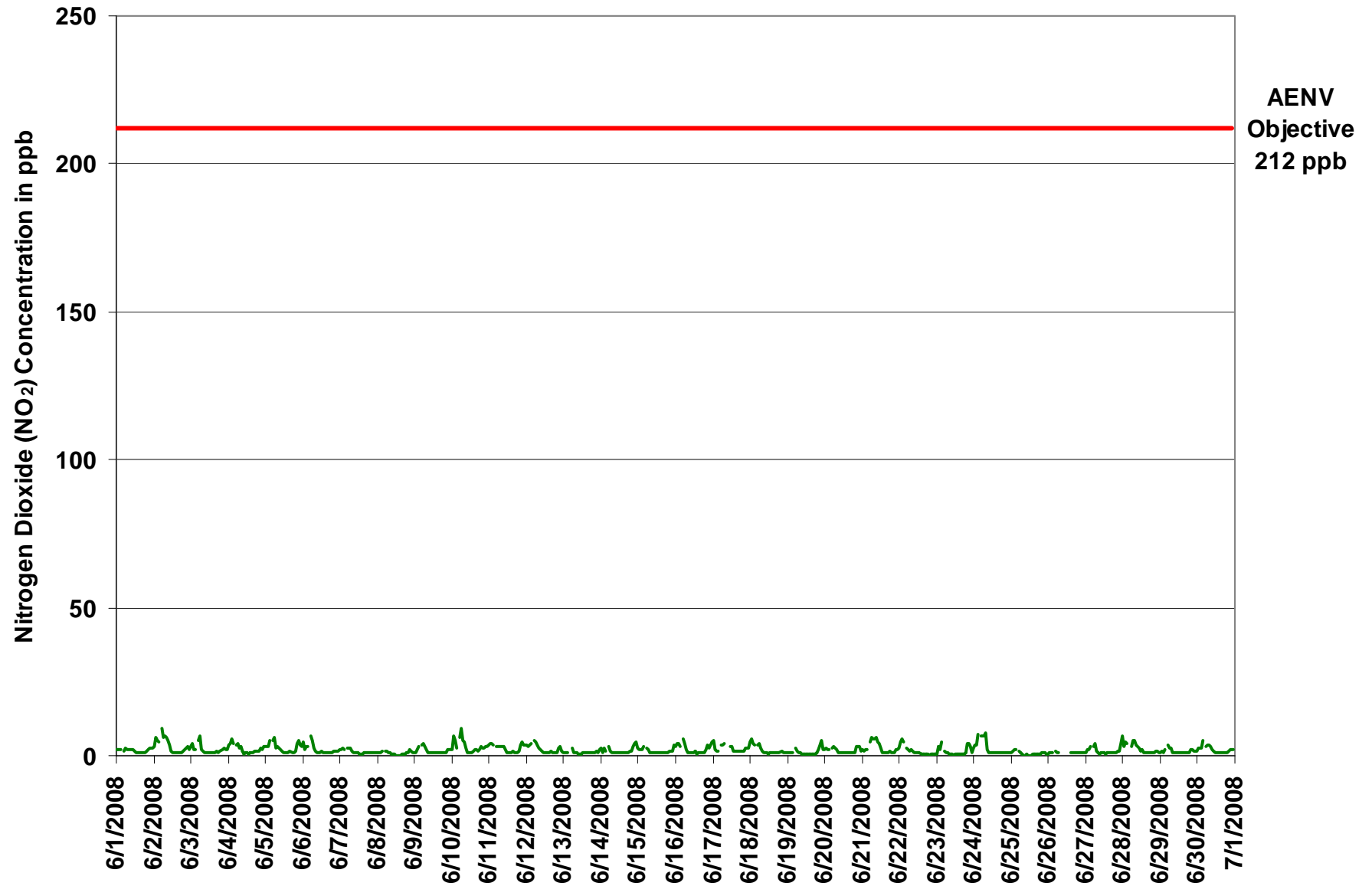


Figure 36. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

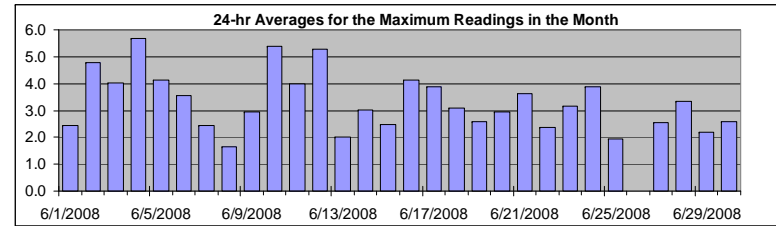
Nitrogen Dioxide (NO₂)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	47.3	ppb	4-Jun	8:00 9:00
Maximum 24-hr Value:	5.7	ppb	4-Jun	

AIC Time:	31 hrs	Operational Time:	681 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	13.9	9.0	4.0	2.0	1.0	0.9	0.9	3.3 ppb	2.0 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-Jun-08	2	2	2	3	A	2	5	3	2	2	2	2	2	2	1	1	1	1	2	5	7	5	3	2.4	6.7	
2-Jun-08	4	9	7	6	A	14	11	9	9	6	5	2	2	2	2	1	1	1	2	4	5	4	3	4.8	14.0	
3-Jun-08	9	11	2	2	A	8	10	4	3	2	2	7	1	2	1	2	3	2	3	5	6	3	3	4.0	11.0	
4-Jun-08	5	8	10	7	A	5	5	5	47	2	2	1	2	1	2	2	2	3	3	3	5	5	4	5.7	47.3	
5-Jun-08	4	3	3	6	A	7	9	5	5	4	4	4	2	2	2	2	3	2	2	6	8	7	4	4.1	9.0	
6-Jun-08	7	3	4	3	A	14	9	3	2	2	2	5	8	2	2	2	2	1	2	2	2	2	2	3.6	13.9	
7-Jun-08	2	2	3	3	A	3	3	4	3	2	2	1	10	2	1	1	1	2	2	2	2	2	2	2.5	10.0	
8-Jun-08	2	1	2	2	A	2	2	2	1	1	1	1	1	1	1	1	1	1	2	2	4	6	1	1.6	6.0	
9-Jun-08	1	2	3	5	A	4	7	4	3	2	6	1	1	4	1	1	1	2	1	2	3	7	6	3.0	7.0	
10-Jun-08	4	15	8	5	A	10	11	8	6	5	2	1	1	1	3	3	2	2	3	8	7	9	4	5.4	15.0	
11-Jun-08	4	7	7	7	A	4	3	4	4	4	3	2	3	2	2	2	2	2	3	4	12	4	5	4.0	12.0	
12-Jun-08	4	4	5	5	A	7	7	26	15	3	2	1	1	5	1	2	5	2	2	2	6	11	4	5.3	25.9	
13-Jun-08	2	2	2	2	A	5	2	1	1	1	1	1	1	1	2	3	2	1	1	1	2	4	2	8	2.0	7.5
14-Jun-08	6	2	6	3	A	5	5	2	1	1	1	1	1	1	1	2	1	1	2	2	3	8	7	8	3.0	8.0
15-Jun-08	7	2	3	4	A	4	3	2	3	1	1	1	1	1	1	1	2	1	2	4	2	3	7	2.5	7.0	
16-Jun-08	4	10	5	4	A	9	6	3	1	1	1	1	1	23	1	1	1	1	2	3	5	6	6	4.1	23.0	
17-Jun-08	8	3	3	2	A	9	7	7	C	C	C	4	4	2	2	3	3	2	2	4	2	3	3	5	3.9	9.0
18-Jun-08	8	7	6	4	A	4	7	3	4	1	6	1	3	1	2	1	1	1	2	2	2	2	2	2	3.1	8.0
19-Jun-08	2	1	1	1	A	4	3	3	1	1	1	1	1	1	1	1	1	1	2	8	7	14	4	2.6	13.9	
20-Jun-08	4	3	3	3	A	4	5	4	3	2	2	1	2	1	1	1	2	2	2	5	5	10	2	2.9	9.7	
21-Jun-08	3	2	3	3	A	9	8	7	7	8	5	5	4	2	2	2	2	2	2	2	2	2	2	2	3.6	9.0
22-Jun-08	3	10	8	6	A	4	2	2	2	2	2	2	1	1	1	1	1	1	1	1	2	1	1	2.4	10.0	
23-Jun-08	1	14	4	6	A	3	2	1	1	1	3	1	1	1	1	1	1	1	2	10	11	5	2	3.2	14.0	
24-Jun-08	5	5	4	9	A	10	9	9	10	4	1	1	3	2	1	2	2	2	1	2	2	1	3	3.9	10.0	
25-Jun-08	2	3	7	6	A	3	2	1	1	1	2	1	1	1	1	1	1	1	1	2	3	2	2	1.9	6.9	
26-Jun-08	2	2	2	2	A	3	3	1	C	C	C	C	C	A	2	1	1	1	2	1	2	2	2	2	N	2.9
27-Jun-08	2	3	3	4	A	5	7	2	1	1	1	1	1	1	2	1	1	1	1	2	3	4	4	8	2.5	8.0
28-Jun-08	10	5	9	4	A	3	9	7	4	4	3	2	2	2	1	2	1	1	2	1	1	2	2	1	3.4	10.0
29-Jun-08	1	2	2	3	A	7	5	4	2	1	1	1	1	1	1	1	1	2	2	2	4	3	2	3	2.2	7.0
30-Jun-08	2	4	5	6	A	6	5	5	4	3	2	1	1	1	1	1	1	1	1	3	2	3	2	2.6	6.0	
Hourly Avg	3.9	4.9	4.3	4.2	N	5.8	5.7	4.7	5.2	2.4	2.3	1.8	2.1	2.3	1.4	1.5	1.6	1.4	1.6	2.1	3.4	4.5	4.5	3.6		
Hourly Max	10.0	15.0	10.0	9.0	0.0	14.0	11.0	25.9	47.3	7.6	6.0	7.2	10.0	23.0	3.0	3.0	5.0	2.0	3.0	8.0	10.0	12.0	13.9	8.0		

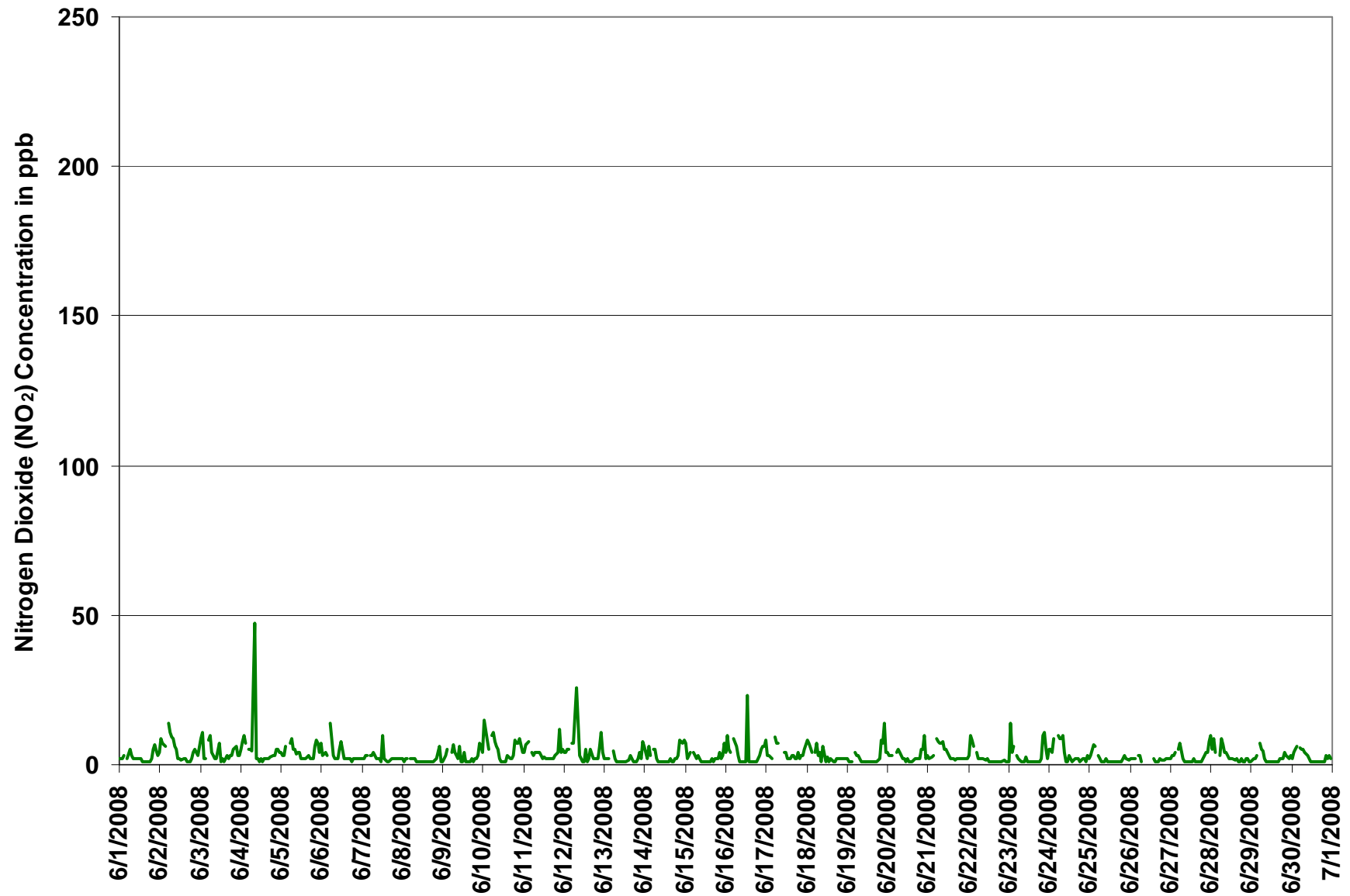
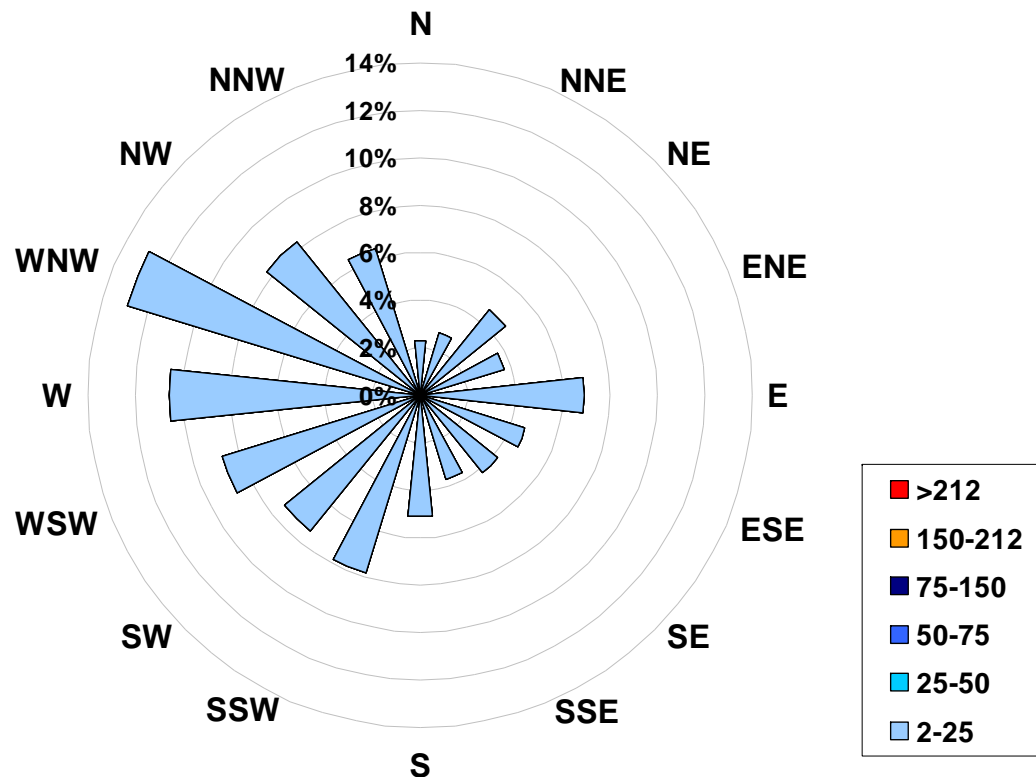


Figure 37. PASZA - Beaverlodge Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Beaverlodge Site for June 2008



Calms: 0%

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

PASZA - Beaverlodge Nitric Oxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

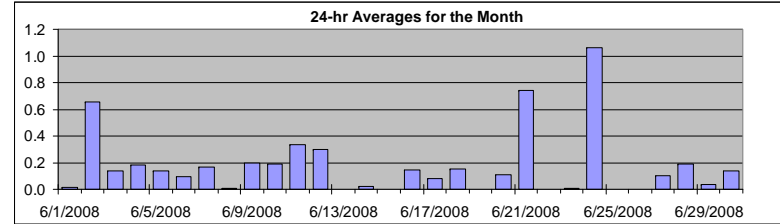
Nitric Oxide (NO)

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Maximum 1-hr Average:	7.6	ppb	24-Jun	6:00 7:00
Maximum 24-hr Average:	1.1	ppb	24-Jun	

AIC Time:	31 hrs	Operational Time:	681 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.9	1.1	0.0	0.0	0.0	0.0	0.0	0.2 ppb	0.0 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
1-Jun-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
2-Jun-08	0	0	0	0	A	3	4	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	3.7
3-Jun-08	0	0	0	0	A	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.8
4-Jun-08	0	0	0	0	A	0	1	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.2	1.1
5-Jun-08	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.2
6-Jun-08	0	0	0	0	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.1
7-Jun-08	0	0	0	0	A	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.2	1.0
8-Jun-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
9-Jun-08	0	0	0	0	A	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.7
10-Jun-08	0	0	0	0	A	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.6
11-Jun-08	0	0	0	0	A	1	1	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.0
12-Jun-08	0	0	0	0	A	1	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.2
13-Jun-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
14-Jun-08	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
15-Jun-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
16-Jun-08	0	0	0	0	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.2
17-Jun-08	0	0	0	0	A	0	0	1	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.8
18-Jun-08	0	0	0	0	A	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.1
19-Jun-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
20-Jun-08	0	0	0	0	A	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
21-Jun-08	0	0	0	0	A	2	3	3	3	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	3.2
22-Jun-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
23-Jun-08	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
24-Jun-08	0	0	0	0	A	3	8	7	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	7.6
25-Jun-08	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
26-Jun-08	0	0	0	0	A	0	0	0	C	C	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	N	0.0
27-Jun-08	0	0	0	0	A	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.5
28-Jun-08	0	0	0	0	A	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.3
29-Jun-08	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.6
30-Jun-08	0	0	0	0	A	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
Hourly Avg	0.0	0.0	0.0	0.0	N	0.5	1.1	0.9	0.8	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Hourly Max	0.0	0.1	0.0	0.0	0.0	3.4	7.6	6.8	6.8	2.2	1.9	1.6	0.8	0.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0		

PASZA - Beaverlodge Oxides of Nitrogen Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

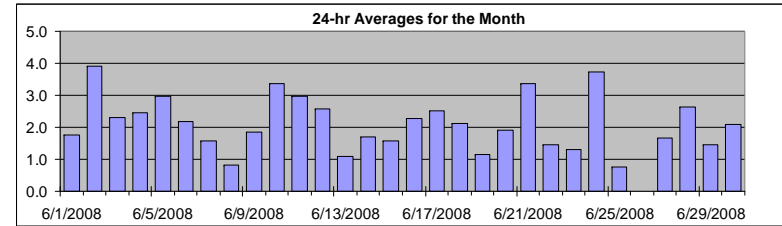
Oxides of Nitrogen (NO_x)

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Maximum 1-hr Average:	14.6	ppb	24-Jun	8:00 9:00
Maximum 24-hr Average:	3.9	ppb	2-Jun	

AIC Time:	31 hrs	Operational Time:	681 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	9.3	5.7	2.8	1.4	0.9	0.3	0.1	2.1 ppb	1.4 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		
1-Jun-08	2	2	2	2	A	2	3	3	2	2	2	2	2	1	1	1	1	1	1	1	2	2	3	3	1.8	3.1
2-Jun-08	3	6	5	5	A	13	10	9	9	7	4	1	1	1	1	1	1	1	1	1	2	2	3	2	3.9	12.6
3-Jun-08	3	4	2	2	A	6	9	3	2	1	1	1	1	1	1	1	1	2	1	2	2	3	2	2	2.3	8.6
4-Jun-08	3	4	6	4	A	4	5	3	4	2	1	1	1	1	1	1	1	1	2	2	2	2	3	2	2.5	5.7
5-Jun-08	3	3	3	5	A	5	7	3	4	3	2	2	1	1	2	1	2	1	1	2	4	5	4	3	3.0	7.4
6-Jun-08	4	2	3	3	A	8	6	3	2	1	1	2	2	1	1	1	1	1	1	1	1	1	2	2	2.2	7.7
7-Jun-08	2	2	3	2	A	3	3	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.6	3.8
8-Jun-08	1	1	1	1	A	2	2	2	1	1	0	0	0	0	0	0	0	0	0	1	1	2	1	1	0.8	2.0
9-Jun-08	1	1	2	3	A	4	6	4	3	2	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1.9	5.5
10-Jun-08	2	7	5	3	A	7	11	7	6	3	1	1	1	1	2	2	2	2	2	3	3	3	3	3	3.4	11.1
11-Jun-08	3	4	4	4	A	4	4	5	4	5	3	2	1	1	1	2	1	1	1	2	3	4	3	4	3.0	5.1
12-Jun-08	4	3	4	4	A	6	7	6	4	3	2	1	1	1	1	1	2	1	1	1	1	2	3	1	2.6	7.0
13-Jun-08	1	1	1	1	A	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1.1	2.8
14-Jun-08	2	1	3	2	A	3	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	4	4	1.7	4.4
15-Jun-08	3	2	2	3	A	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	3	1.6	3.3
16-Jun-08	3	4	4	3	A	7	6	3	1	1	1	1	1	1	1	1	1	1	1	1	2	4	3	4	2.3	7.1
17-Jun-08	5	2	2	2	A	4	4	5	C	C	C	4	3	2	2	2	2	1	2	2	3	2	3	2.5	5.2	
18-Jun-08	5	6	4	3	A	4	6	3	3	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2.1	5.6
19-Jun-08	1	1	1	1	A	3	2	1	1	0	0	0	0	0	0	0	0	0	0	1	2	4	5	2	1.1	5.0
20-Jun-08	2	2	2	2	A	3	4	4	3	1	1	1	1	1	1	1	1	1	1	1	3	3	3	2	1.9	4.0
21-Jun-08	2	1	2	2	A	6	9	9	9	8	7	6	3	1	1	1	1	1	1	1	1	1	2	2	3.4	9.1
22-Jun-08	2	5	6	4	A	3	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1.4	5.6
23-Jun-08	0	3	2	4	A	1	2	1	0	0	0	0	0	0	0	0	0	0	0	1	5	4	3	1	1.3	4.6
24-Jun-08	3	4	3	7	A	9	14	14	15	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3.7	14.6
25-Jun-08	1	1	2	2	A	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0.7	2.1
26-Jun-08	1	1	1	1	A	2	1	1	C	C	C	C	C	C	A	1	1	1	1	1	1	1	1	1	N	1.5
27-Jun-08	1	2	2	3	A	4	6	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	4	1.7	5.8
28-Jun-08	6	3	5	4	A	3	6	7	5	4	3	2	2	1	1	1	1	1	1	1	1	2	1	1	2.6	6.8
29-Jun-08	1	1	1	2	A	4	3	3	2	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1.5	3.8
30-Jun-08	1	3	3	5	A	3	5	5	4	3	2	1	1	1	1	1	1	1	1	1	2	2	2	2	2.1	5.1
Hourly Avg	2.4	2.7	2.8	3.0	N	4.3	4.9	3.8	3.2	2.1	1.5	1.2	1.1	0.9	0.9	0.9	1.0	0.9	1.0	1.1	1.7	2.2	2.1	2.0		
Hourly Max	6.4	6.9	5.7	7.1	0.0	12.6	14.3	13.7	14.6	8.3	6.5	5.8	3.1	1.8	1.8	2.0	2.1	1.6	1.9	2.9	4.6	5.3	5.0	4.4		

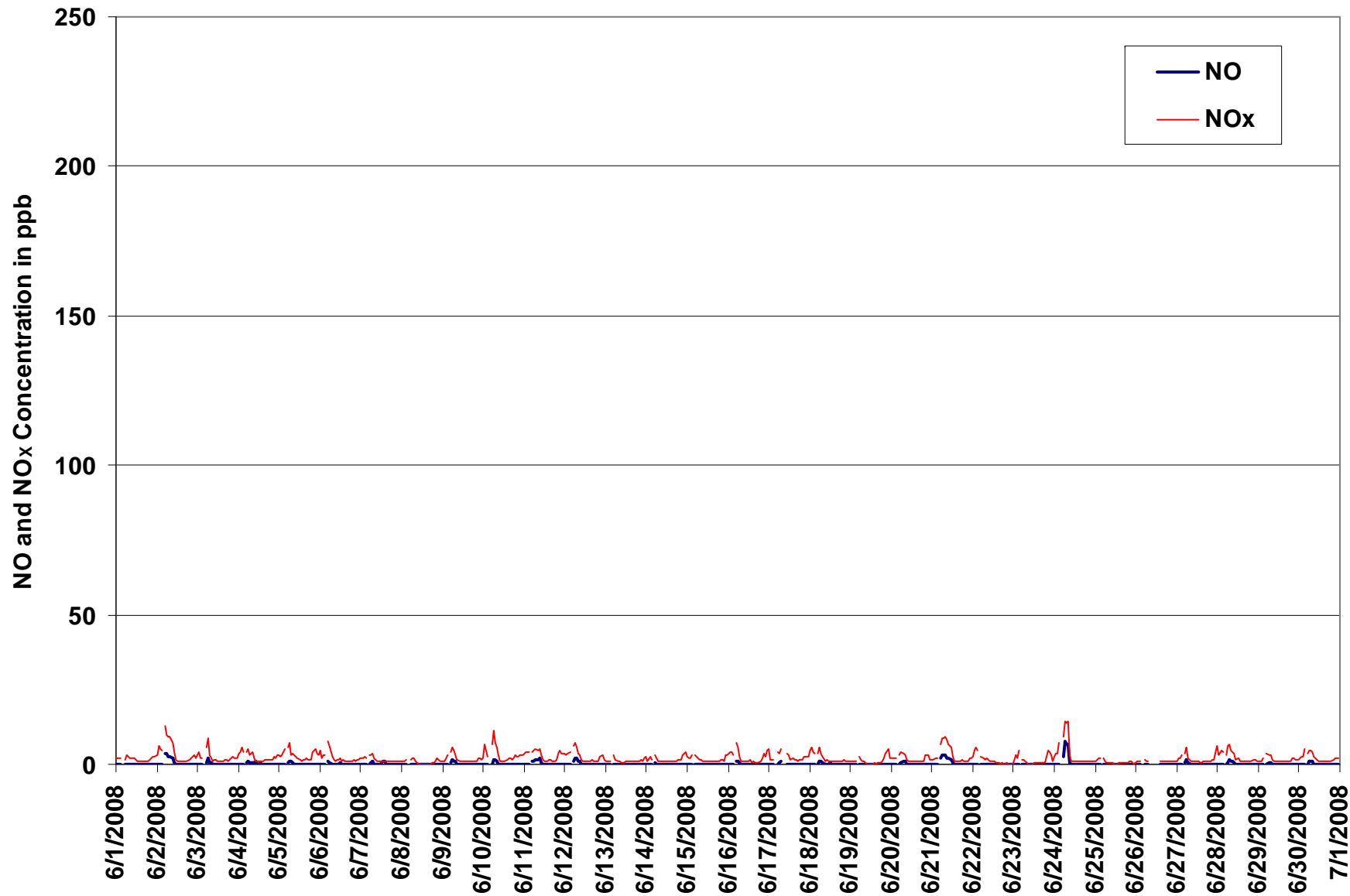


Figure 38. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

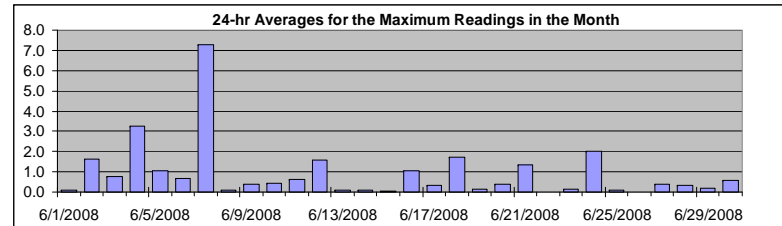
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	75.5	ppb	7-Jun	13:00 14:00
Maximum 24-hr Value:	7.3	ppb	7-Jun	



AIC Time:	31 hrs	Operational Time:	681 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	17.0	2.9	0.0	0.0	0.0	0.0	0.0	0.9 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-hour Average	Daily Maximum	
1-Jun-08	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
2-Jun-08	0	0	0	0	A	13	12	4	4	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1.6	12.6
3-Jun-08	0	0	0	0	A	1	4	5	1	0	1	3	1	1	0	0	1	0	0	0	0	0	0	0	0.8	4.9
4-Jun-08	0	0	0	0	A	1	1	3	1	1	45	0	0	22	1	0	0	0	0	0	0	0	0	0	3.2	44.7
5-Jun-08	0	0	0	0	A	1	2	17	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	1.1	16.8	
6-Jun-08	0	0	0	0	A	4	2	1	0	0	1	3	5	0	0	0	0	0	0	0	0	0	0	0	0.7	4.7
7-Jun-08	0	0	0	0	A	0	1	2	1	1	0	0	11	76	75	0	0	0	0	0	0	0	0	0	7.3	75.5
8-Jun-08	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
9-Jun-08	0	0	0	0	A	1	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.9
10-Jun-08	0	0	0	0	A	1	3	3	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0.4	2.9
11-Jun-08	0	0	0	1	A	2	2	2	2	3	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0.6	2.9
12-Jun-08	0	0	0	0	A	3	5	23	1	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1.6	22.8
13-Jun-08	0	0	0	0	A	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0.1	0.9
14-Jun-08	0	0	0	0	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.0
15-Jun-08	0	0	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.9
16-Jun-08	0	2	0	0	A	2	2	1	0	5	0	0	0	4	9	0	0	0	0	0	0	0	0	0	1.1	8.9
17-Jun-08	0	0	0	0	A	1	2	2	C	C	C	1	1	0	0	0	0	0	0	0	0	0	0	0	0.3	1.9
18-Jun-08	0	0	0	0	A	1	2	2	1	0	2	0	31	1	0	0	0	0	0	0	0	0	0	0	1.7	31.4
19-Jun-08	0	0	0	0	A	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.9
20-Jun-08	0	0	0	0	A	1	1	2	1	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0.4	2.9
21-Jun-08	0	0	0	0	A	9	5	4	4	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	1.3	8.9
22-Jun-08	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
23-Jun-08	0	1	0	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.2	1.0
24-Jun-08	0	0	0	0	A	7	18	9	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0	17.6
25-Jun-08	0	0	0	0	A	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
26-Jun-08	0	0	0	0	A	0	0	0	C	C	C	C	C	A	0	0	0	0	1	0	0	0	0	0	N	0.9
27-Jun-08	0	0	0	0	A	1	3	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.9
28-Jun-08	0	0	0	0	A	0	2	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.9
29-Jun-08	0	0	0	0	A	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.9
30-Jun-08	0	0	0	0	A	7	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	7.5
Hourly Avg	0.0	0.1	0.0	0.0	N	1.9	2.6	3.1	1.3	1.0	2.1	0.3	1.9	3.6	2.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Hourly Max	0.0	1.9	0.0	0.9	0.0	12.6	17.6	22.8	10.8	4.9	44.7	2.9	31.4	75.5	75.5	0.9	1.0	0.0	0.9	0.0	0.9	1.0	0.3	0.7		

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

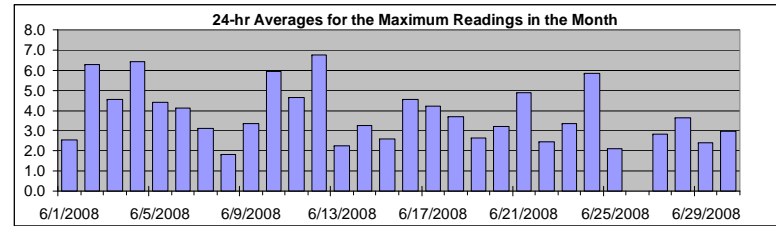
Oxides of Nitrogen (NO_x)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	49.0	ppb	12-Jun	7:00 8:00
Maximum 24-hr Value:	6.8	ppb	12-Jun	

AIC Time:	31 hrs	Operational Time:	681 hrs						
Calibration Time:	8 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	18.6	10.7	4.9	2.0	1.9	0.9	0.9	3.8 ppb	2.0 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-Jun-08	2	2	2	3	A	2	5	4	2	2	2	2	2	2	1	1	1	1	2	6	7	4	3	2.5	7.0	
2-Jun-08	4	9	7	6	A	27	23	12	12	9	6	2	2	1	2	2	1	1	2	4	5	4	3	6.3	26.5	
3-Jun-08	9	11	2	2	A	9	14	5	4	2	2	11	2	2	1	2	3	2	3	5	6	3	3	4.6	13.9	
4-Jun-08	5	8	10	7	A	6	6	6	48	3	5	2	2	7	2	2	2	3	4	3	5	5	4	6.4	48.1	
5-Jun-08	4	3	3	6	A	8	11	5	6	4	5	4	3	2	2	2	3	2	3	6	8	7	4	4.4	11.0	
6-Jun-08	7	3	4	3	A	18	10	4	3	2	3	6	11	2	2	2	2	2	2	2	2	2	2	4.1	18.0	
7-Jun-08	2	2	3	3	A	3	4	5	4	2	2	2	13	6	7	1	2	2	2	2	2	1	2	3.1	13.0	
8-Jun-08	2	1	2	2	A	3	3	3	2	1	1	1	1	1	1	1	1	1	2	2	4	6	1	1.8	6.0	
9-Jun-08	1	2	3	5	A	5	10	6	4	3	7	1	1	4	1	1	1	2	1	2	3	7	6	3.4	10.0	
10-Jun-08	4	15	8	5	A	11	13	11	8	6	2	2	1	1	3	3	3	2	3	8	7	9	5	5.9	15.3	
11-Jun-08	4	7	7	9	A	6	5	6	6	6	5	2	4	2	2	3	2	2	3	4	12	4	5	4.7	12.0	
12-Jun-08	4	4	6	5	A	9	12	49	16	5	2	2	1	5	1	2	5	2	2	2	6	11	4	6.8	49.0	
13-Jun-08	2	2	2	2	A	5	2	1	1	1	1	2	2	2	2	4	2	1	2	1	2	4	2	8	2.2	7.5
14-Jun-08	6	2	6	3	A	6	6	2	2	2	2	2	1	1	1	2	1	1	2	3	8	7	8	3.2	8.0	
15-Jun-08	7	2	4	4	A	4	3	2	3	1	1	1	2	1	1	1	2	1	2	3	4	2	3	7	2.6	7.0
16-Jun-08	4	13	5	4	A	11	8	4	2	2	1	1	1	23	1	1	1	1	2	3	5	6	6	4.6	23.0	
17-Jun-08	8	3	2	2	A	10	8	8	C	C	C	5	5	2	3	3	3	2	2	4	2	3	4	5	4.2	10.0
18-Jun-08	8	7	5	4	A	5	9	5	5	2	7	1	6	1	3	2	1	2	2	3	2	2	2	3.7	8.9	
19-Jun-08	2	1	1	1	A	4	3	5	1	1	1	1	1	1	1	1	1	1	2	9	7	14	3	2.7	13.8	
20-Jun-08	4	3	3	3	A	4	6	5	4	3	2	1	2	2	1	1	2	2	2	6	5	10	2	3.2	10.0	
21-Jun-08	3	2	2	3	A	18	13	11	10	11	7	7	5	2	2	2	2	2	2	2	2	2	2	2	4.9	17.6
22-Jun-08	3	10	8	6	A	4	3	2	3	3	2	2	1	1	1	1	1	1	1	1	1	1	1	2.5	10.0	
23-Jun-08	1	15	4	6	A	3	3	2	1	1	2	1	1	1	1	1	1	1	2	11	12	5	2	3.4	14.9	
24-Jun-08	5	5	4	9	A	13	27	18	21	6	1	1	3	3	1	2	2	1	2	2	2	1	3	5.8	27.1	
25-Jun-08	2	3	7	6	A	4	2	2	1	1	3	1	1	1	1	1	1	1	2	2	3	2	2	2.1	6.9	
26-Jun-08	2	2	2	2	A	3	3	2	C	C	C	C	C	A	2	1	1	2	3	2	2	2	1	N	2.9	
27-Jun-08	2	3	2	4	A	6	10	3	2	1	1	1	1	1	2	1	2	2	1	2	3	4	4	8	2.8	10.0
28-Jun-08	10	5	9	4	A	3	11	9	5	5	4	2	2	2	1	2	1	1	2	1	1	2	2	1	3.6	10.7
29-Jun-08	1	2	2	3	A	8	7	6	2	1	1	1	1	1	1	1	1	1	2	2	4	3	2	3	2.4	8.0
30-Jun-08	2	4	5	6	A	7	7	7	6	4	3	1	1	1	1	1	1	1	1	3	2	3	2	3.0	7.0	
Hourly Avg	3.9	5.0	4.3	4.2	N	7.4	8.2	7.0	6.5	3.1	2.9	2.3	2.7	2.7	1.6	1.6	1.7	1.5	1.7	2.3	3.5	4.5	4.4	3.5		
Hourly Max	10.0	15.3	10.0	9.0	0.0	26.5	27.1	49.0	48.1	10.6	7.0	10.8	13.0	23.0	7.0	3.9	4.9	2.9	2.9	8.0	11.0	12.0	13.8	8.0		

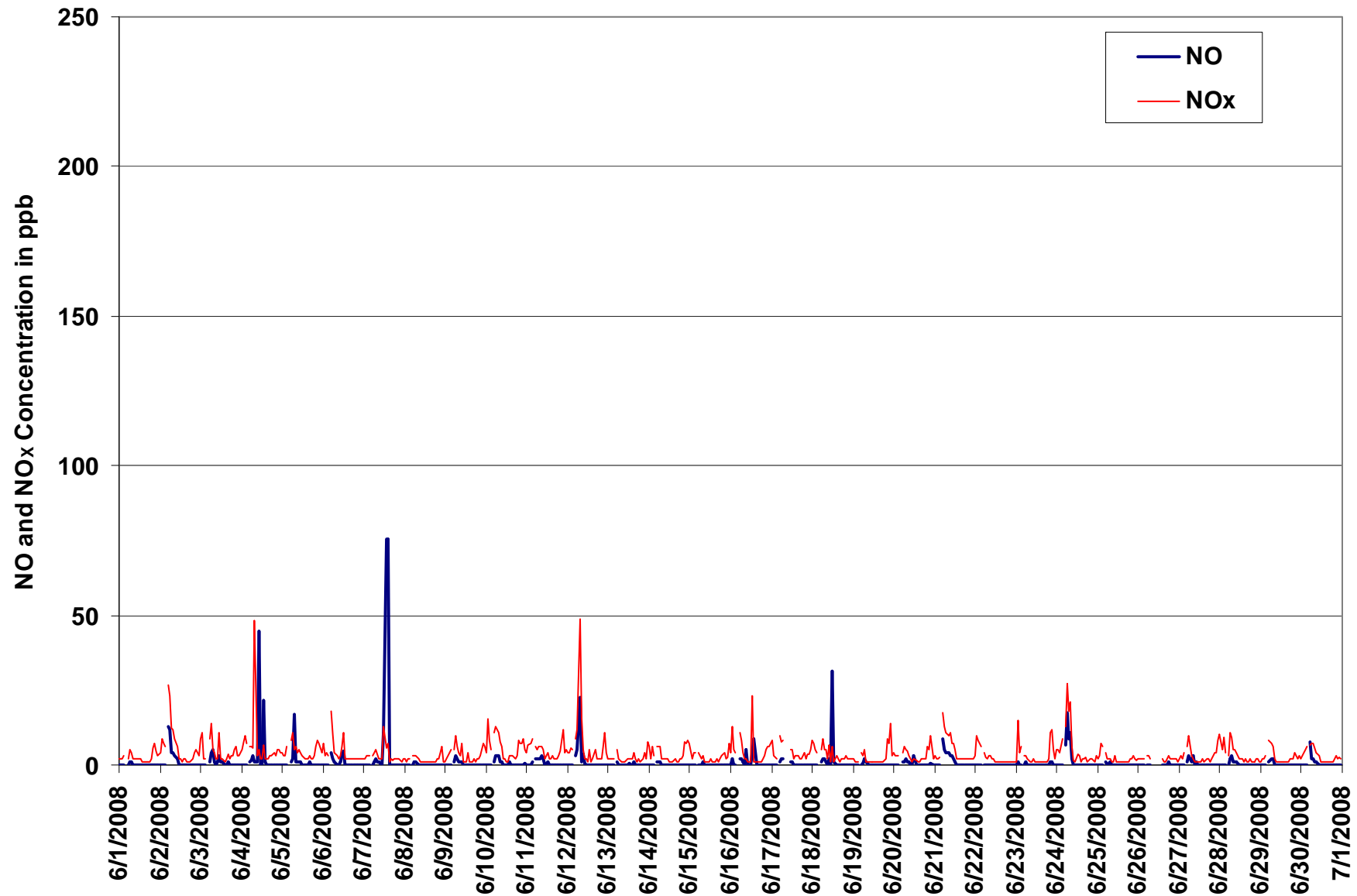


Figure 39. PASZA - Beaverlodge Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Beaverlodge Ozone Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

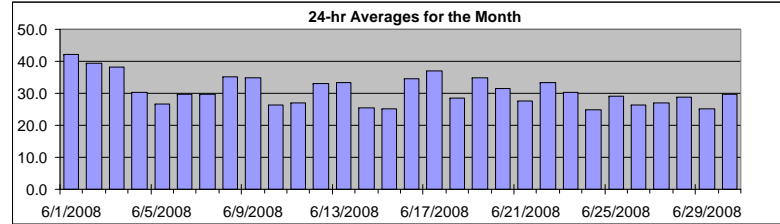
Ozone (O₃)

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	55.5 ppb	2-Jun	17:00 18:00
Maximum 24-hr Average:	42.2 ppb	1-Jun	

AIC Time:	31 hrs	Operational Time:	683 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	53.0	44.7	36.5	31.1	24.7	16.0	11.1	30.8 ppb	31.1 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-Jun-08	36	35	34	33	A	36	34	34	36	37	40	43	46	47	48	48	49	50	51	50	50	45	45	45	42.2	50.8	
2-Jun-08	39	23	20	21	A	11	10	23	25	29	43	53	54	54	55	55	55	56	55	50	45	44	44	41	39.4	55.5	
3-Jun-08	38	35	39	39	A	29	20	29	32	34	37	42	45	47	48	48	44	45	43	41	37	38	36	33	38.2	47.9	
4-Jun-08	27	26	25	22	A	15	16	23	19	25	35	41	42	40	41	39	35	38	36	34	34	32	31	23	30.3	41.8	
5-Jun-08	23	21	20	18	A	15	16	22	25	27	30	35	36	36	38	39	33	33	32	30	24	21	19	20	26.7	39.1	
6-Jun-08	17	24	23	23	A	17	21	27	33	36	37	37	37	37	35	34	33	31	32	32	32	29	28	27	29.7	37.0	
7-Jun-08	24	23	23	23	A	21	21	22	28	31	31	33	34	36	36	34	34	31	30	30	33	34	33	33	29.6	36.3	
8-Jun-08	32	31	30	29	A	25	23	28	33	36	38	39	39	39	41	41	41	40	40	40	38	35	36	36	35.2	41.1	
9-Jun-08	34	33	28	20	A	17	18	23	28	35	38	39	42	44	46	47	46	44	44	39	35	33	33	32	34.8	46.8	
10-Jun-08	32	22	23	27	A	23	15	21	22	30	36	34	34	33	30	29	29	30	30	26	24	22	19	17	26.3	35.7	
11-Jun-08	18	16	16	14	A	7	10	9	13	17	28	34	37	39	39	38	41	41	39	39	34	31	31	30	27.0	41.0	
12-Jun-08	30	27	22	20	A	15	15	20	24	28	34	40	43	43	43	44	41	40	41	43	43	37	33	34	33.2	44.1	
13-Jun-08	36	38	36	35	A	29	31	33	37	36	35	37	37	36	35	36	36	34	32	29	29	28	27	25	33.4	37.5	
14-Jun-08	24	24	19	20	A	14	18	21	23	27	27	27	29	31	32	28	31	34	35	33	28	25	20	16	25.6	34.6	
15-Jun-08	18	17	15	13	A	12	16	22	24	28	30	30	30	31	32	31	33	35	31	31	27	27	27	20	25.3	34.8	
16-Jun-08	17	14	12	15	A	15	20	27	35	39	41	41	42	42	44	46	46	47	47	45	44	41	41	35	34.6	47.5	
17-Jun-08	26	39	36	35	A	31	31	34	34	36	C	C	C	44	45	43	43	44	43	43	42	33	29	27	36.9	44.8	
18-Jun-08	19	16	15	17	A	17	16	21	25	31	35	36	39	39	38	38	39	39	33	30	27	27	28	28	28.4	39.5	
19-Jun-08	29	31	31	31	A	26	28	30	32	36	38	40	41	40	40	42	40	40	41	39	35	33	30	31	34.9	41.7	
20-Jun-08	32	27	24	25	A	22	23	25	29	34	36	38	40	41	41	42	40	38	35	32	27	26	23	26	31.6	42.0	
21-Jun-08	26	28	25	24	A	15	13	12	14	16	23	28	34	38	37	34	34	35	35	34	33	31	31	32	27.5	37.8	
22-Jun-08	34	27	18	20	A	27	25	27	27	28	28	28	36	41	39	39	40	40	41	40	39	40	39	40	33.2	41.1	
23-Jun-08	38	32	33	28	A	30	30	33	36	36	35	34	33	33	33	31	30	29	28	27	21	21	22	23	30.2	37.5	
24-Jun-08	20	19	18	8	A	8	9	11	17	26	28	32	33	32	35	34	30	29	33	32	31	30	29	28	24.9	35.2	
25-Jun-08	27	26	25	28	A	23	24	27	28	29	31	31	30	31	32	32	32	31	31	30	30	30	30	33	29.1	33.3	
26-Jun-08	33	30	30	30	A	26	27	28	27	26	26	27	C	C	C	A	26	25	24	23	23	23	21	22	26.3	32.8	
27-Jun-08	22	21	21	19	A	16	17	20	22	23	24	25	28	31	33	34	35	35	36	35	33	34	31	27	27.1	35.8	
28-Jun-08	23	22	20	22	A	21	18	18	20	21	23	26	28	29	32	35	40	43	43	41	41	34	30	29	28.7	43.4	
29-Jun-08	27	25	25	22	A	16	17	22	26	32	31	30	28	28	27	24	24	24	26	25	22	24	26	24	25.0	32.2	
30-Jun-08	24	20	22	18	A	16	16	20	26	32	35	33	34	35	35	35	37	39	41	39	33	30	28	31	29.6	41.1	
Hourly Avg	27.5	25.7	24.3	23.3	N	19.9	20.0	23.7	26.7	30.2	32.9	34.9	36.8	37.8	38.3	37.9	37.3	37.4	36.9	35.4	33.1	31.3	30.1	29.0			
Hourly Max	39.2	39.5	39.5	39.4	0.0	35.9	33.8	34.4	36.9	39.1	42.7	52.8	53.9	54.0	55.2	54.7	54.5	55.5	55.2	50.3	49.6	45.2	45.2	45.4			

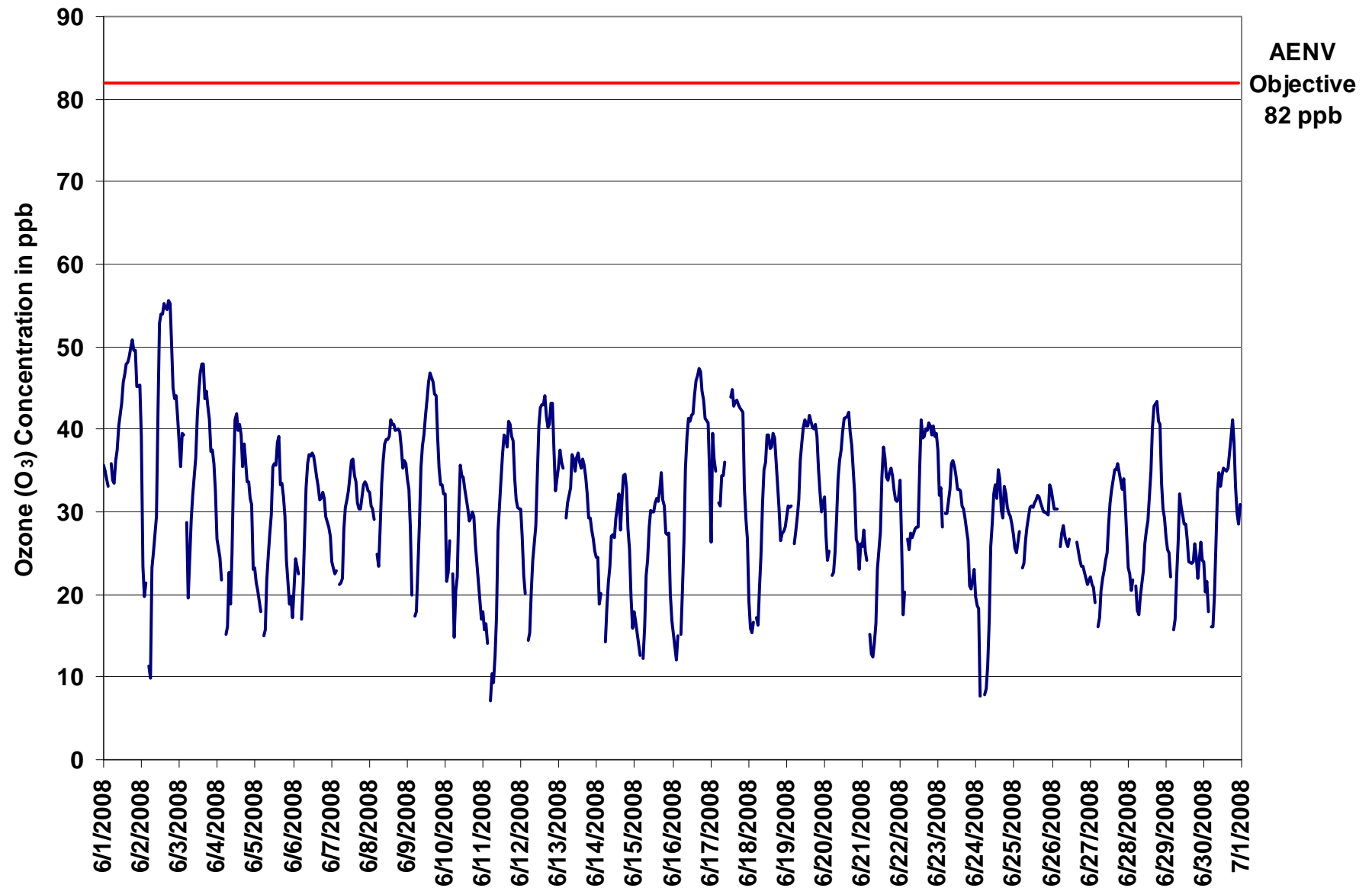


Figure 40. PASZA - Beaverlodge Ozone 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

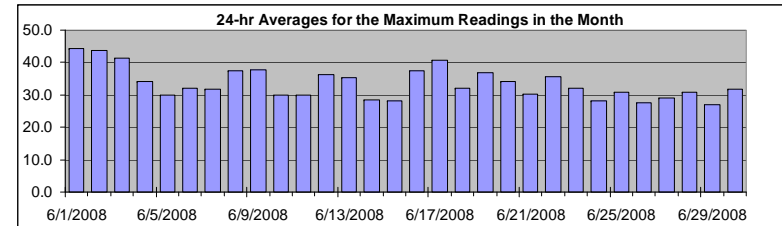
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	57.6	ppb	2-Jun	17:00 18:00
Maximum 24-hr Value:	44.4	ppb	1-Jun	



AIC Time:	31 hrs	Operational Time:	683 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	55.4	47.3	38.7	33.4	27.9	19.9	15.4	33.5 ppb	33.4 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-Jun-08	38	37	36	36	A	37	38	37	37	39	42	45	47	48	49	49	51	51	53	52	52	52	48	47	44.4	52.6
2-Jun-08	43	36	24	29	A	20	15	27	29	36	52	55	56	56	56	56	57	58	57	55	47	49	48	46	43.8	57.6
3-Jun-08	43	39	41	41	A	35	26	32	35	36	39	45	47	48	51	54	46	47	46	44	40	40	39	37	41.3	54.3
4-Jun-08	37	28	31	28	A	19	22	27	21	31	39	45	46	43	43	41	38	40	40	37	37	33	34	25	34.1	45.6
5-Jun-08	24	22	22	19	A	21	22	24	29	30	38	39	38	38	41	41	37	36	34	34	28	24	22	21	29.8	41.4
6-Jun-08	25	26	25	23	A	24	27	30	35	38	38	39	39	38	37	35	35	33	33	34	33	30	30	29	32.1	38.9
7-Jun-08	26	24	25	24	A	22	22	26	33	34	33	35	36	39	38	37	36	33	32	34	35	35	34	34	31.6	38.6
8-Jun-08	33	32	31	32	A	29	28	31	35	38	41	41	41	42	43	42	42	42	41	41	39	37	37	37	37.3	43.3
9-Jun-08	36	35	31	30	A	21	21	28	31	38	39	41	43	45	48	48	48	46	46	44	37	35	36	37	37.7	48.3
10-Jun-08	36	32	28	29	A	38	18	24	24	37	37	36	35	34	33	30	31	32	32	30	27	24	22	21	30.0	37.8
11-Jun-08	21	20	19	19	A	11	12	11	18	22	32	37	39	41	41	40	43	42	42	41	37	36	33	32	30.0	43.0
12-Jun-08	32	28	26	21	A	19	18	25	26	32	40	44	46	45	45	46	45	44	43	46	45	43	35	36	36.1	46.4
13-Jun-08	37	39	38	37	A	31	33	35	38	38	37	38	39	38	38	39	38	38	34	31	31	31	29	27	35.3	39.3
14-Jun-08	26	27	22	21	A	16	21	25	25	30	29	28	31	32	33	33	34	37	37	36	31	29	29	22	28.5	36.8
15-Jun-08	19	18	17	16	A	17	20	24	28	32	31	31	32	32	33	36	35	37	36	33	31	30	29	29	28.1	36.6
16-Jun-08	20	16	14	19	A	18	24	31	40	41	43	42	43	45	47	48	48	50	50	46	45	43	44	38	37.3	50.2
17-Jun-08	35	44	41	38	A	38	35	38	37	38	C	C	C	46	46	46	45	45	46	46	49	38	32	31	40.7	48.8
18-Jun-08	31	21	20	26	A	23	20	24	29	35	38	38	42	42	39	40	42	41	37	32	28	29	29	29	32.0	42.4
19-Jun-08	31	32	32	32	A	29	30	30	36	38	41	42	43	42	42	44	42	41	42	42	38	34	34	34	37.0	43.8
20-Jun-08	34	31	29	28	A	25	24	29	32	37	37	39	42	43	43	43	42	39	37	35	30	29	29	29	34.2	42.9
21-Jun-08	29	29	29	27	A	24	21	18	15	21	26	30	37	39	38	36	35	36	37	35	34	32	32	33	30.2	39.1
22-Jun-08	36	36	22	26	A	30	27	28	28	30	29	34	37	43	41	41	41	41	42	42	41	41	40	40	35.6	42.9
23-Jun-08	39	36	35	31	A	32	31	36	37	37	37	35	34	34	34	33	31	30	30	28	23	25	24	24	32.0	39.4
24-Jun-08	24	22	21	18	A	14	14	16	24	28	29	34	34	36	37	36	36	33	35	33	32	31	30	29	28.1	36.9
25-Jun-08	28	28	27	30	A	25	26	29	30	31	31	32	31	34	33	33	33	32	31	31	31	31	31	36	30.7	36.3
26-Jun-08	35	32	32	31	A	28	30	30	28	27	27	28	C	C	C	A	27	26	25	24	24	24	22	23	27.6	35.4
27-Jun-08	23	22	22	22	A	19	20	22	23	24	25	27	31	33	35	37	38	37	37	37	34	36	33	31	29.0	37.7
28-Jun-08	26	26	22	23	A	22	21	21	21	23	25	28	29	30	35	38	42	45	45	42	42	41	31	30	30.7	45.5
29-Jun-08	28	27	26	25	A	19	20	26	32	33	32	31	30	30	29	26	25	25	28	26	24	26	28	25	27.0	33.3
30-Jun-08	25	25	23	19	A	19	18	23	30	36	37	34	36	37	36	37	39	42	42	41	37	32	30	32	31.6	42.3
Hourly Avg	30.7	29.0	27.1	26.7	N	24.2	23.5	26.8	29.6	33.0	35.3	37.0	38.8	39.8	40.1	40.2	39.4	39.3	39.0	37.8	35.5	34.1	32.5	31.5		
Hourly Max	43.3	44.3	40.9	40.9	0.0	37.8	38.0	37.9	39.8	41.0	51.8	55.3	55.7	55.7	56.5	56.3	56.9	57.6	57.5	54.7	51.9	51.8	48.2	47.4		

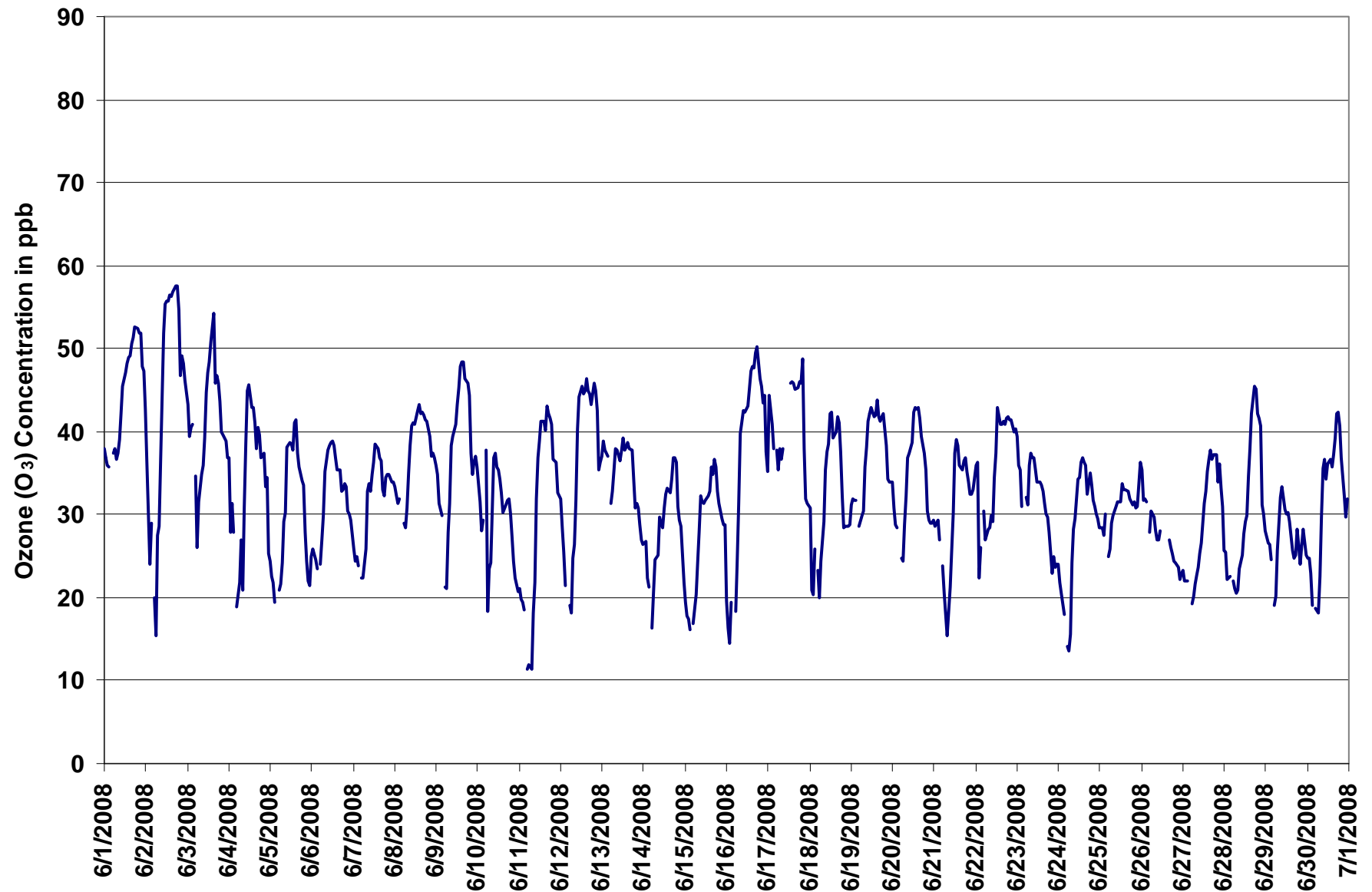
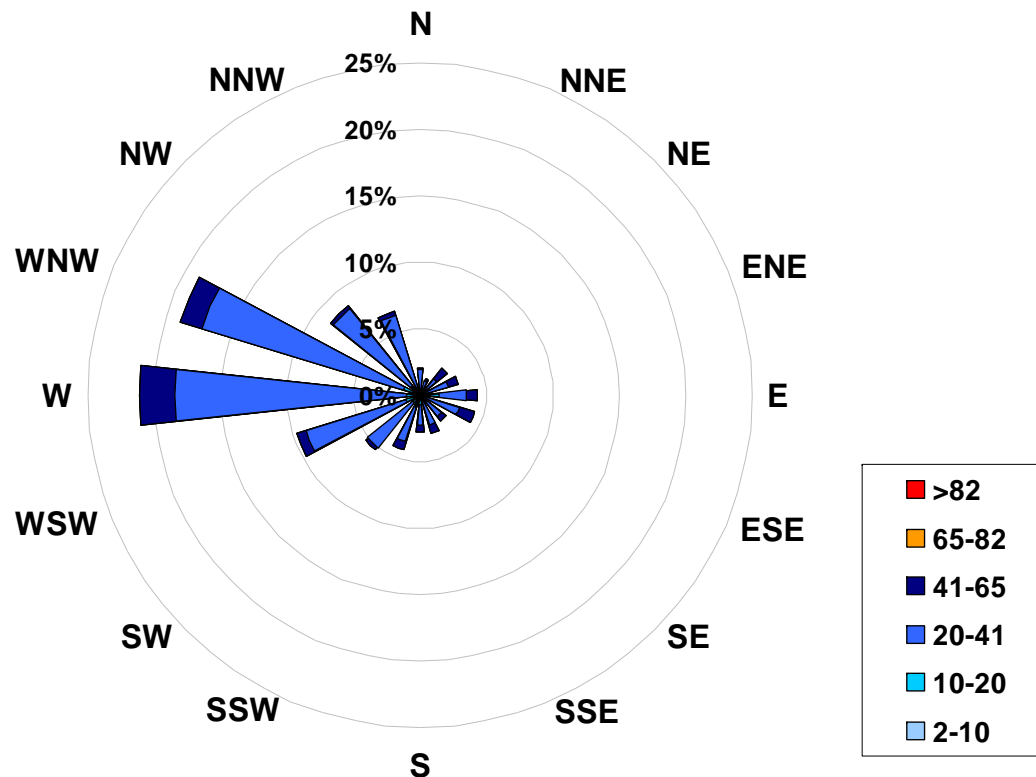


Figure 41. PASZA - Beaverlodge Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Beaverlodge Site for June 2008



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	<	10	6
10	to	20	73
20	to	41	522
41	to	65	82
65	to	82	0
	>	82	0
Total Non-Zero Values			683

PASZA - Beaverlodge Ozone Eight Hour Average Summary

Station: Beaverlodge
 Station Owner: PASZA

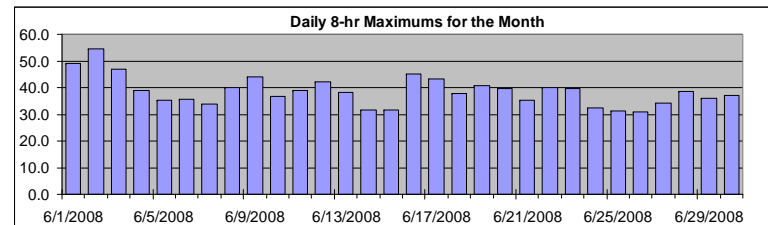
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: June 1, 2008 to July 1, 2008

Objective Limit: Alberta Environment: 8-hr 65 ppb

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	54.5 ppb 2-Jun 18:00 19:00



Percentile	99	95	75	50	25	5	1
	48.9	43.3	35.4	30.8	25.1	19.0	14.1

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	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	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-Jun-08	0:00	42	40	38	36	35	35	35	34	35	35	36	37	38	40	41	43	45	46	48	48	49	49	48	48	48.9
2-Jun-08	1:00	47	44	40	36	34	29	24	21	19	20	23	28	31	36	42	46	50	53	54	54	53	52	50	49	54.5
3-Jun-08	2:00	47	44	42	41	40	38	35	33	32	32	31	32	33	36	39	42	43	44	45	45	44	43	41	39	46.7
4-Jun-08	3:00	37	35	33	30	29	26	23	22	21	21	22	25	27	30	33	35	37	39	39	38	37	36	35	33	39.0
5-Jun-08	4:00	31	29	27	25	24	22	20	19	20	20	22	24	26	28	31	33	34	35	35	35	33	31	29	27	35.4
6-Jun-08	5:00	25	23	22	21	21	20	21	22	24	26	28	30	31	33	35	36	36	35	35	34	33	32	31	31	35.8
7-Jun-08	6:00	29	28	27	26	25	24	23	22	23	24	25	27	28	30	31	33	34	34	34	33	33	33	33	32	33.8
8-Jun-08	7:00	32	32	32	32	32	30	29	28	29	29	30	32	33	35	37	38	39	40	40	40	40	39	39	38	40.0
9-Jun-08	8:00	37	36	35	32	32	29	27	25	24	24	26	29	30	33	37	40	42	43	44	44	43	42	40	38	43.9
10-Jun-08	9:00	37	34	31	30	29	27	25	23	22	23	25	26	27	28	30	31	32	32	31	30	29	27	26	25	36.7
11-Jun-08	10:00	23	21	20	18	17	15	14	13	12	13	14	17	19	23	27	31	34	37	38	39	39	38	37	36	39.0
12-Jun-08	11:00	34	33	31	28	27	25	23	21	21	21	22	25	28	31	35	37	40	41	42	42	42	42	40	39	42.3
13-Jun-08	12:00	38	38	37	36	35	34	34	34	34	34	34	34	34	35	36	36	36	36	35	35	34	33	31	30	38.3
14-Jun-08	13:00	29	27	26	25	24	22	21	20	20	20	22	23	23	26	27	28	29	30	31	32	31	31	29	28	31.6
15-Jun-08	14:00	26	24	22	19	18	16	15	16	17	19	21	23	24	27	28	30	31	31	32	32	31	31	30	29	31.7
16-Jun-08	15:00	27	24	22	20	19	17	16	17	20	23	28	31	33	36	39	41	43	44	44	45	45	45	45	43	45.1
17-Jun-08	16:00	41	40	38	37	36	35	33	33	34	34	N	N	N	N	N	N	N	N	N	43	43	42	40	38	43.4
18-Jun-08	17:00	35	31	28	25	22	20	18	17	18	20	23	26	28	30	33	35	37	38	38	37	35	34	33	31	38.0
19-Jun-08	18:00	30	29	29	29	29	29	29	29	30	30	31	33	34	36	37	39	40	40	41	40	40	39	37	36	40.6
20-Jun-08	19:00	35	33	31	30	29	27	26	25	25	26	28	30	31	33	36	38	39	39	39	39	37	35	33	31	39.5
21-Jun-08	20:00	29	28	27	26	25	24	22	20	19	17	17	17	19	22	25	28	30	33	34	35	35	34	34	33	35.2
22-Jun-08	21:00	33	32	30	28	28	27	26	25	24	25	26	27	28	30	32	33	35	36	38	39	40	40	40	40	40.0
23-Jun-08	22:00	40	39	38	36	36	34	33	32	32	32	33	33	33	34	34	34	33	32	31	30	29	27	26	25	39.6
24-Jun-08	23:00	24	22	21	19	19	17	15	13	13	14	15	19	21	24	27	30	31	32	32	32	32	32	31	30	32.4
25-Jun-08	0:00	30	30	29	28	28	27	26	26	26	26	27	28	28	29	30	31	31	31	31	31	31	31	31	31	31.2
26-Jun-08	1:00	31	31	31	31	31	30	30	29	29	28	27	27	27	N	N	N	N	N	N	N	N	N	24	24	30.9
27-Jun-08	2:00	23	23	22	22	21	20	20	20	20	20	20	21	22	24	26	28	29	31	32	33	34	34	34	33	34.2
28-Jun-08	3:00	32	30	28	27	26	24	22	21	20	20	20	20	21	22	23	25	27	29	32	35	36	38	39	38	38.5
29-Jun-08	4:00	36	34	31	29	28	25	23	22	22	23	24	25	25	27	28	28	28	27	26	26	25	24	24	24	36.0
30-Jun-08	5:00	24	24	23	23	23	21	20	19	20	21	23	25	27	29	31	33	35	35	36	37	37	36	35	35	36.9

Hourly Max 46.9 44.2 42.3 40.9 40.3 38.1 34.9 34.4 34.5 34.9 35.8 37.2 38.3 39.6 42.0 46.0 49.7 52.9 54.5 54.2 53.1 51.8 50.4 48.7

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

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

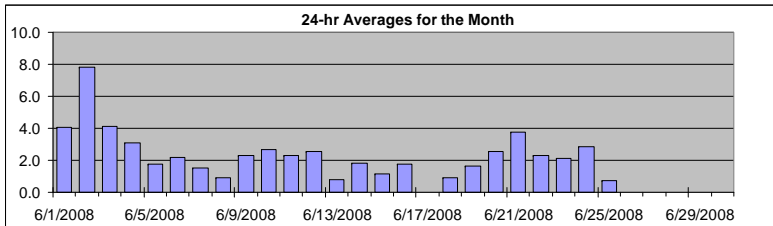
Particulate Matter (PM_{2.5})

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	16.5 µg/m ³ 2-Jun 21:00 22:00
Maximum 24-hr Value:	7.8 µg/m ³ 2-Jun

AIC Time:	0 hrs	Operational Time:	597 hrs						
Calibration Time:	11 hrs	AMD Operational Uptime:	84.4%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	10.7	7.3	3.6	1.6	0.4	0.0	0.0	2.4 2 µg/m ³	2.1 µg/m ³



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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	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-Jun-08	4	2	3	5	2	3	4	1	3	5	5	4	3	3	2	3	3	5	5	6	5	9	4	10	4.1	10.2	
2-Jun-08	12	10	9	8	8	9	12	9	10	8	5	0	2	2	4	7	2	4	6	9	16	17	10	8	7.8	16.5	
3-Jun-08	9	8	5	5	5	6	7	3	0	1	1	0	2	3	2	8	5	8	1	5	5	1	4	5	4.1	9.1	
4-Jun-08	8	5	4	4	5	11	6	5	5	0	0	1	0	1	0	3	6	0	3	1	0	0	0	7	3.1	11.0	
5-Jun-08	4	2	2	1	1	3	5	3	2	4	2	0	0	0	D	0	4	1	0	D	0	1	2	0	1.7	4.6	
6-Jun-08	0	0	0	0	1	3	4	4	1	2	2	2	3	3	4	4	3	3	2	3	3	3	2	1	2.2	4.2	
7-Jun-08	2	2	2	1	2	2	3	3	2	2	0	0	0	0	2	5	4	1	0	0	0	1	1	1	1.5	4.6	
8-Jun-08	0	1	0	0	0	1	2	0	0	D	0	0	0	0	0	0	1	1	0	1	5	4	3	2	0.9	4.7	
9-Jun-08	1	1	1	3	2	2	3	1	1	0	1	1	0	0	0	0	3	3	3	3	12	6	4	3	3	2.3	12.4
10-Jun-08	2	4	5	3	3	4	6	4	5	3	3	2	2	1	3	2	1	2	3	3	1	1	1	0	2.7	5.7	
11-Jun-08	2	0	1	0	0	3	4	6	0	4	0	0	0	1	6	4	0	2	4	2	5	5	2	3	2.3	6.0	
12-Jun-08	3	3	3	3	4	4	4	1	3	1	0	1	0	D	0	1	6	9	3	1	3	3	1	1	2.5	9.0	
13-Jun-08	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3	0	2	4	3	2	0	1	2	0	0.8	3.9	
14-Jun-08	0	0	1	0	1	3	5	1	0	0	1	4	0	0	0	7	0	0	4	5	3	3	2	4	1.8	7.1	
15-Jun-08	1	1	0	1	1	2	1	0	0	0	0	0	4	D	0	2	0	D	5	1	2	0	0	1	1.1	5.4	
16-Jun-08	3	0	0	0	0	1	0	2	0	1	1	1	2	0	0	1	1	0	4	4	4	5	5	6	1.8	6.1	
17-Jun-08	11	6	5	4	4	4	4	4	C	C	C	C	C	C	C	1	0	0	0	1	1	5	4	3	N	10.7	
18-Jun-08	1	2	2	0	1	3	2	1	0	0	0	0	0	0	0	0	0	1	3	1	2	2	1	1	0.9	2.6	
19-Jun-08	1	2	1	1	1	1	1	1	0	0	0	0	0	0	0	0	2	1	1	2	7	7	6	3	1.6	7.2	
20-Jun-08	3	3	3	2	2	4	5	7	3	1	1	0	2	2	1	1	1	1	1	3	2	3	5	4	2.5	6.6	
21-Jun-08	3	1	0	1	2	4	4	5	7	4	7	8	5	0	1	6	6	1	3	4	5	5	3	4	3.8	8.1	
22-Jun-08	4	5	7	5	1	5	6	4	4	4	3	0	0	0	0	1	1	1	0	1	1	1	1	1	2.3	6.6	
23-Jun-08	1	2	2	2	2	3	3	3	1	1	2	1	1	1	1	1	1	1	1	1	4	5	5	3	2.1	5.5	
24-Jun-08	2	2	2	5	4	8	9	7	7	1	2	1	2	7	1	4	3	0	0	0	1	1	0	0	2.8	9.2	
25-Jun-08	0	0	1	0	0	1	0	0	0	0	0	0	1	1	1	2	1	2	1	1	1	2	2	1	0.7	2.0	
26-Jun-08	2	1	0	0	1	0	0	0	0	0	C	C	C	C	N	N	N	N	N	N	N	N	N	N	N	N	2.3
27-Jun-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
28-Jun-08	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-Jun-08	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-Jun-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
Hourly Avg	3.0	2.5	2.3	2.1	2.1	3.5	3.9	3.0	2.3	1.7	1.5	1.1	1.2	N	1.4	2.6	2.2	2.2	2.2	2.9	3.3	3.4	2.7	2.9			
Hourly Max	11.9	10.2	9.1	8.3	8.0	11.0	11.8	9.3	10.0	8.3	6.7	8.1	5.4	7.2	5.7	7.8	6.1	9.0	6.0	12.4	15.7	16.5	9.8	10.2			

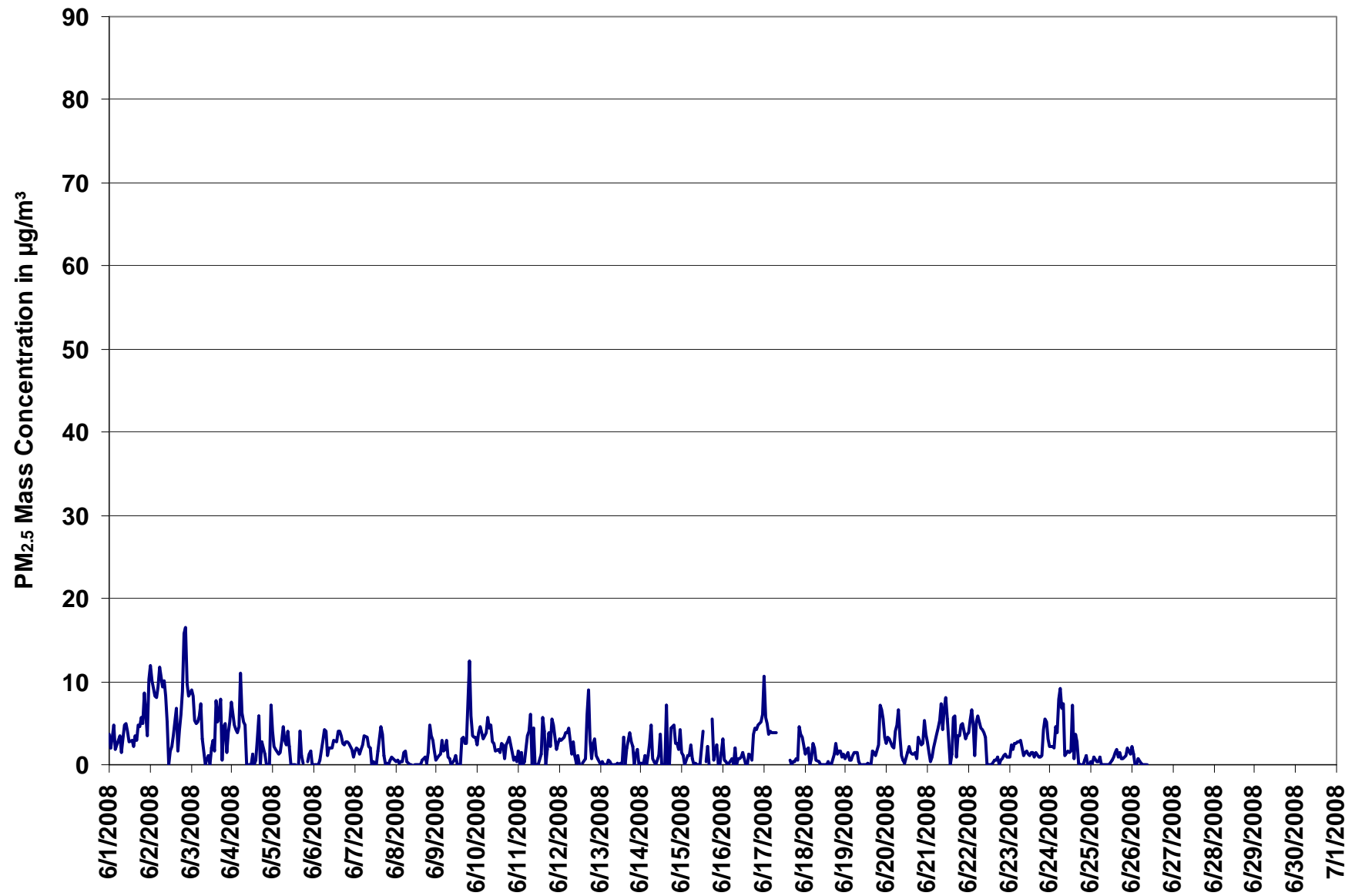


Figure 42. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

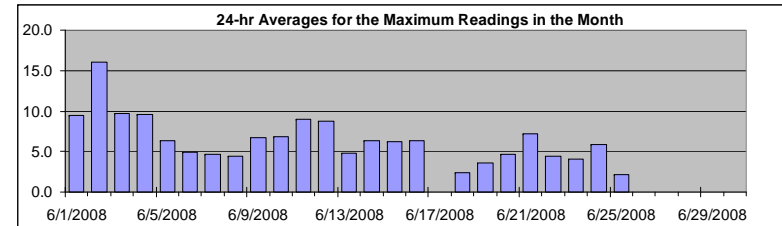
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	43.7	µg/m ³	2-Jun	20:00 21:00
Maximum 24-hr Value:	16.1	µg/m ³	2-Jun	



AIC Time:	0 hrs	Operational Time:	603 hrs						
Calibration Time:	11 hrs	AMD Operational Uptime:	85.3%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	22.0	15.1	8.5	5.3	3.2	1.3	0.6	6.4	5.9 µg/m ³

Status Flag Characters

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

Day	Mountain Standard Time																								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-Jun-08	6	4	5	10	8	5	12	6	7	9	9	9	13	8	12	10	9	12	11	14	9	15	13	12	9.4	15.0	
2-Jun-08	16	15	12	13	11	19	18	15	16	15	18	11	20	10	10	13	11	13	15	14	44	31	13	15	16.1	43.7	
3-Jun-08	17	15	7	6	7	8	12	8	7	5	6	4	8	14	8	29	10	14	5	13	8	5	10	8	9.7	28.8	
4-Jun-08	14	7	8	6	8	17	14	13	13	9	9	3	5	3	10	17	19	7	17	6	3	0	11	11	9.6	19.4	
5-Jun-08	9	4	4	3	3	12	9	6	5	10	10	9	5	6	6	13	9	6	7	2	4	4	5	2	6.4	12.9	
6-Jun-08	5	0	2	0	2	6	6	6	6	5	5	5	6	8	8	6	7	5	5	5	7	6	4	2	4.9	8.5	
7-Jun-08	3	5	3	2	3	3	5	5	5	6	4	6	9	5	6	8	9	8	4	5	3	3	2	2	4.7	9.1	
8-Jun-08	1	1	2	2	2	6	6	4	3	2	0	2	5	8	10	7	5	6	6	4	8	6	5	4	4.4	9.5	
9-Jun-08	3	5	5	9	5	5	6	5	3	5	6	5	6	4	5	8	8	6	6	29	8	6	7	6	6.7	29.5	
10-Jun-08	3	7	7	6	5	7	9	9	10	10	9	6	7	8	7	6	5	9	12	8	5	3	3	3	6.8	11.9	
11-Jun-08	6	7	9	5	6	12	8	7	5	15	4	6	5	14	23	15	5	8	11	10	10	16	5	4	9.0	22.7	
12-Jun-08	5	5	5	4	6	8	9	6	9	9	9	22	9	11	9	12	18	18	8	6	5	7	3	7	8.7	22.0	
13-Jun-08	2	3	2	2	2	4	3	4	1	4	6	4	5	3	15	5	9	16	8	5	3	4	3	1	4.8	16.4	
14-Jun-08	3	2	3	1	3	10	18	3	3	4	7	12	8	3	2	21	7	3	11	9	4	5	4	7	6.3	21.4	
15-Jun-08	4	3	1	3	3	4	3	3	4	7	5	4	21	3	6	16	10	6	12	13	8	4	1	5	6.3	20.9	
16-Jun-08	7	7	2	1	4	3	3	5	6	10	7	5	6	6	6	10	5	6	9	7	7	6	9	13	6.3	13.1	
17-Jun-08	27	10	8	7	6	8	6	8	C	C	C	C	C	C	C	3	2	1	3	3	3	10	5	5	N	26.7	
18-Jun-08	3	4	5	3	2	4	3	4	1	1	1	1	1	1	2	1	1	2	5	3	3	3	2	3	2.4	4.7	
19-Jun-08	2	8	1	2	3	3	3	3	2	2	1	1	1	2	1	3	4	3	3	5	12	11	7	5	3.7	11.9	
20-Jun-08	4	6	5	4	4	7	7	9	5	3	2	3	3	4	4	3	3	4	3	5	5	6	8	6	4.7	9.0	
21-Jun-08	4	3	2	2	4	7	7	9	12	9	9	13	14	3	4	10	15	3	9	6	7	9	4	6	7.2	15.0	
22-Jun-08	6	7	10	7	4	11	8	6	6	6	5	6	0	1	3	3	2	3	1	2	3	2	2	2	4.4	10.7	
23-Jun-08	3	5	3	4	4	5	4	5	3	3	3	3	3	2	3	4	3	3	3	4	6	9	7	5	4.0	9.2	
24-Jun-08	3	4	4	8	7	18	13	10	11	4	4	7	4	13	5	7	7	3	1	1	4	3	1	1	5.9	17.8	
25-Jun-08	2	2	2	2	2	1	1	1	2	1	1	2	2	3	3	3	3	3	2	3	3	3	3	3	2.2	3.3	
26-Jun-08	13	10	1	1	3	1	1	1	2	0	C	C	C	C	N	N	N	N	N	N	N	N	N	N	N	N	12.8
27-Jun-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
28-Jun-08	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-Jun-08	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-Jun-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
Hourly Avg	6.5	5.7	4.6	4.3	4.5	7.4	7.5	6.2	5.9	6.2	5.9	6.2	7.0	6.0	6.9	9.2	7.6	6.8	7.0	7.2	7.2	7.1	5.4	5.5			
Hourly Max	26.7	15.1	11.7	12.6	10.6	18.8	17.9	14.7	16.5	15.0	18.3	22.0	20.9	14.1	22.7	28.8	19.4	18.3	16.9	29.5	43.7	31.1	13.1	14.7			

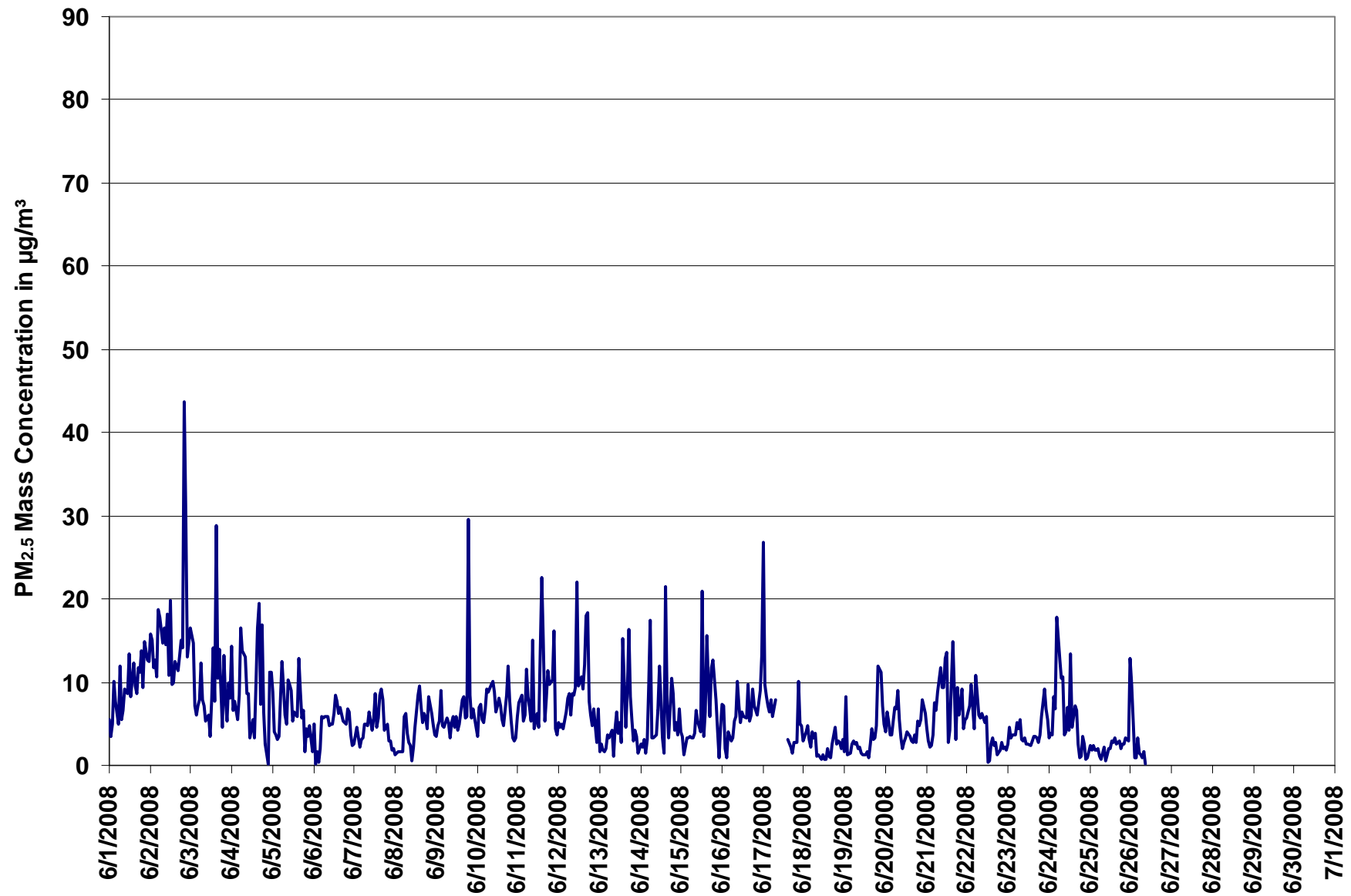
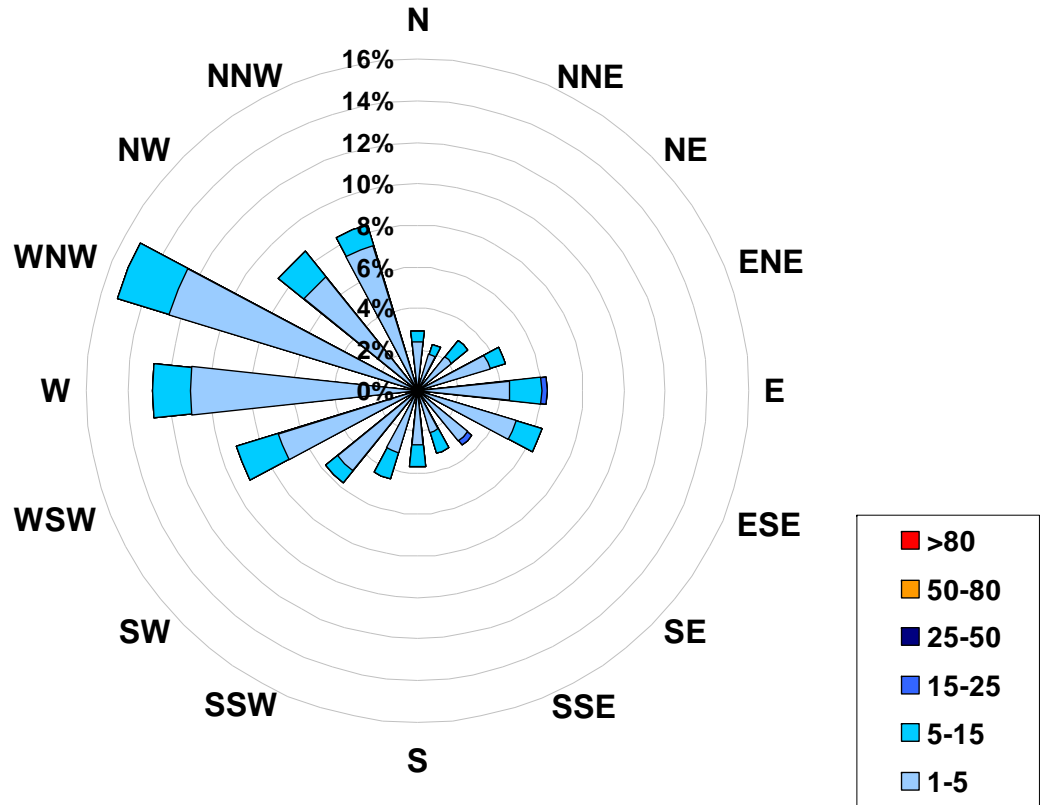


Figure 43. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Beaverlodge Site for June 2008



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	522
5	to	15	73
15	to	25	2
25	to	50	0
50	to	80	0
	>	80	0
Total Non-Zero Values			597

PASZA - Beaverlodge Relative Humidity Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

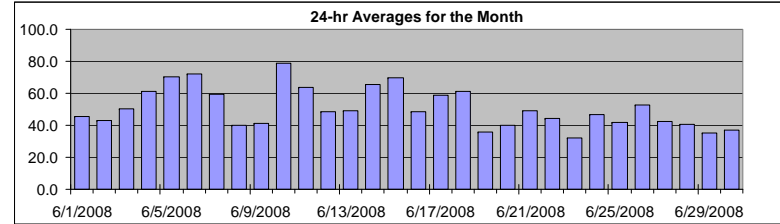
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:				95.7	%	11-Jun	2:00 3:00
Maximum 24-hr Value:				78.6	%	10-Jun	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	95.3	87.7	66.2	49.4	33.5	22.4	18.9	50.8 %	49.4 %

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 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-Jun-08	62	65	67	69	69	67	64	58	53	51	47	42	34	30	25	27	26	26	25	27	30	39	39	42	45.2	69.4
2-Jun-08	54	73	81	82	78	80	71	61	56	45	34	27	21	20	18	19	18	16	17	22	31	32	32	41	42.9	82.2
3-Jun-08	45	58	56	59	64	61	64	55	47	43	40	33	32	28	28	31	41	50	55	56	59	68	65	73	50.5	73.4
4-Jun-08	83	89	91	94	95	92	78	77	70	60	54	48	45	44	37	40	46	42	42	46	46	44	45	57	61.1	95.1
5-Jun-08	63	68	71	73	77	73	68	63	63	70	77	72	74	65	53	49	70	74	71	68	74	78	85	89	70.3	88.9
6-Jun-08	90	83	81	82	83	83	81	80	73	68	64	62	61	61	61	63	62	66	64	66	70	73	74	79	72.0	89.7
7-Jun-08	85	87	88	86	85	83	75	70	63	56	49	47	42	39	35	43	47	49	48	46	41	47	52	57	59.2	87.6
8-Jun-08	58	63	66	71	72	70	65	56	43	37	31	27	24	23	21	21	21	22	21	22	27	32	34	36	40.1	72.1
9-Jun-08	43	45	56	68	72	60	58	47	36	27	25	26	23	21	19	21	23	23	23	36	51	59	63	64	41.1	71.8
10-Jun-08	62	70	72	72	72	74	80	74	72	76	81	81	78	78	77	78	74	74	81	90	92	92	93	95	78.6	94.7
11-Jun-08	95	95	96	95	95	95	94	90	83	69	56	46	36	35	41	44	37	34	35	35	44	54	60	61	63.6	95.7
12-Jun-08	64	70	75	78	79	74	69	60	49	38	33	36	30	25	22	22	26	32	41	40	41	50	55	58	48.6	79.3
13-Jun-08	61	60	68	68	71	66	56	51	41	37	36	34	32	31	36	33	35	36	44	50	48	58	65	66	49.2	70.6
14-Jun-08	69	73	77	80	84	78	71	68	67	60	60	63	53	48	39	56	48	43	52	67	73	77	79	82	65.3	83.7
15-Jun-08	86	88	89	90	88	90	89	82	77	64	53	56	61	50	44	62	59	45	53	54	67	73	73	80	69.8	89.9
16-Jun-08	87	92	92	87	87	77	74	65	51	41	36	35	31	29	24	23	23	23	24	27	29	33	36	41	48.6	92.2
17-Jun-08	52	47	60	67	71	69	59	53	50	45	48	56	58	47	41	49	52	54	52	52	68	79	88	91	58.6	90.8
18-Jun-08	92	95	95	95	95	95	86	73	66	55	46	44	39	32	34	32	30	32	43	55	57	56	59	60	61.2	95.5
19-Jun-08	60	57	56	55	59	61	55	49	41	29	25	23	21	21	20	17	19	20	19	20	25	31	34	37	35.6	60.5
20-Jun-08	39	45	52	53	55	55	51	42	39	34	31	29	30	31	30	29	30	30	31	33	38	46	55	54	40.1	55.3
21-Jun-08	57	55	61	67	65	70	66	68	64	60	46	40	33	23	23	34	42	38	39	41	44	47	49	52	49.4	69.8
22-Jun-08	55	62	70	66	52	56	65	69	71	69	66	50	40	31	26	24	22	23	21	21	24	25	28	27	44.3	71.2
23-Jun-08	31	42	41	47	46	42	40	34	27	26	26	25	25	24	24	22	24	24	23	24	32	36	42	42	32.0	47.2
24-Jun-08	48	51	59	78	74	64	60	52	38	30	28	26	24	43	34	35	38	40	38	42	42	50	57	62	46.4	77.8
25-Jun-08	66	69	70	67	69	64	52	40	35	32	28	28	27	27	27	28	27	29	29	31	31	35	42	45	41.6	70.0
26-Jun-08	51	57	56	58	63	76	78	73	67	57	45	39	37	39	41	39	37	39	42	46	48	53	61	63	52.6	77.7
27-Jun-08	61	61	63	67	68	63	57	53	46	42	37	34	30	27	25	23	22	24	24	26	31	36	43	48	42.1	68.5
28-Jun-08	53	60	62	61	61	58	56	54	53	49	44	39	38	31	28	26	21	20	19	21	24	31	33	34	40.6	62.2
29-Jun-08	38	42	44	50	52	56	54	44	38	31	30	28	27	26	24	23	23	23	23	25	33	35	35	42	35.4	56.4
30-Jun-08	42	52	49	52	69	63	54	48	41	34	27	25	25	24	24	23	23	23	22	23	29	36	39	43	37.0	68.8
Hourly Avg	61.7	65.8	68.8	71.2	72.4	70.5	66.3	60.4	53.9	47.9	43.5	40.7	37.7	35.2	32.7	34.4	35.5	35.7	37.4	40.5	45.0	50.1	53.9	57.4		
Hourly Max	94.9	95.3	95.7	95.4	95.5	95.3	93.5	89.9	83.2	76.2	80.8	81.1	77.7	78.1	76.6	77.8	73.6	73.8	81.4	90.4	91.5	92.3	92.5	94.7		

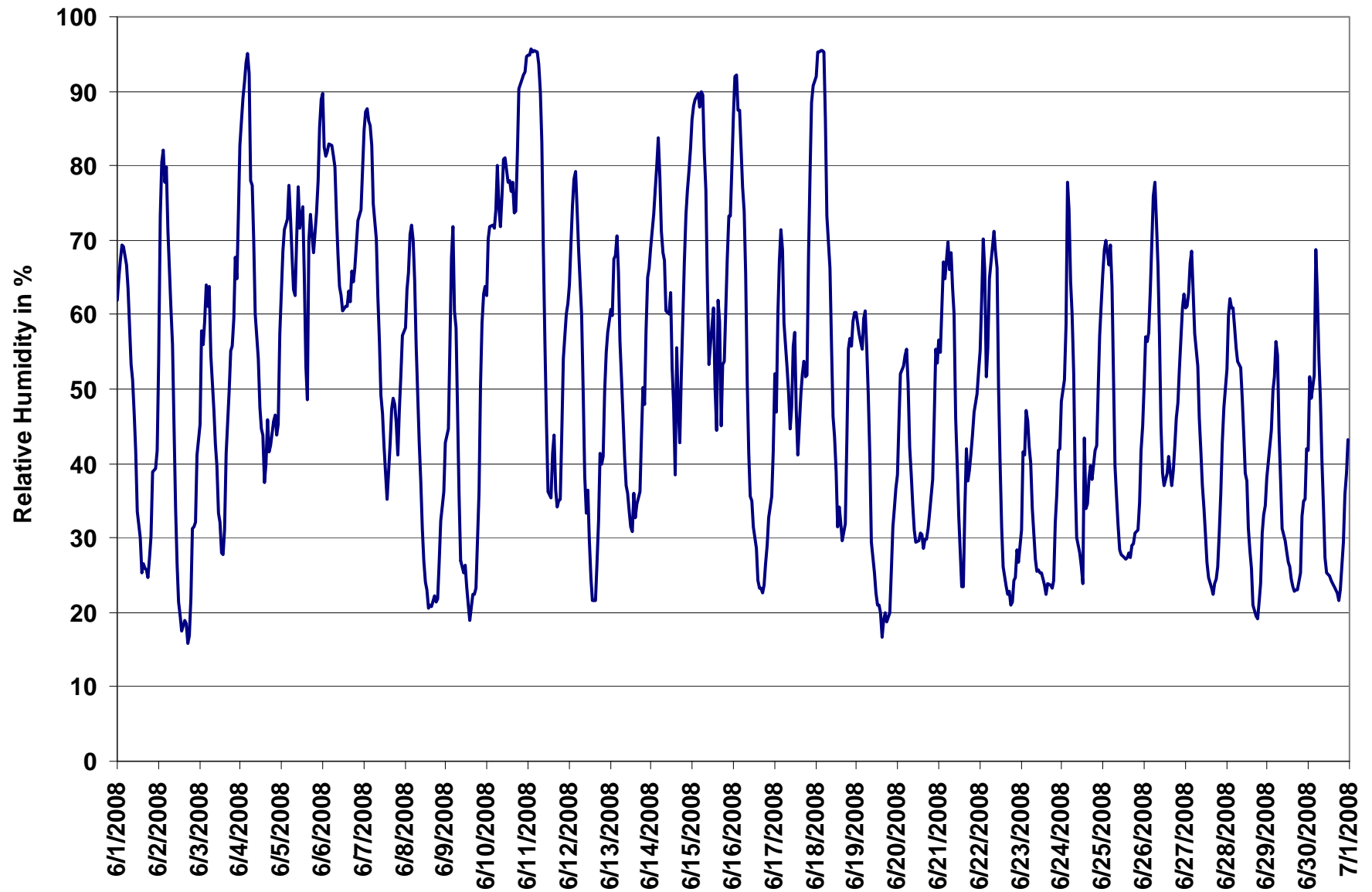


Figure 44. PASZA - Beaverlodge Relative Humidity 1-hr Average Monthly Trend

PASZA - Beaverlodge Temperature Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

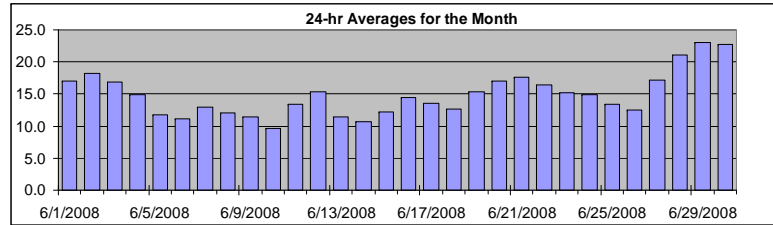
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	29.5	°C	29-Jun	16:00 17:00
Maximum 24-hr Value:	23.0	°C	29-Jun	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	28.4	24.6	18.5	14.6	10.5	7.1	5.2	14.9 °C	14.6 °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	24:00		
1-Jun-08	11	11	10	10	10	11	12	13	14	15	17	19	22	23	24	23	23	23	24	23	21	18	17	16	17.1	24.1	
2-Jun-08	14	10	8	8	9	8	11	15	16	20	22	23	24	25	25	25	25	25	25	24	19	19	19	17	18.2	25.5	
3-Jun-08	15	13	13	13	12	13	13	16	18	19	21	22	23	24	24	22	20	18	16	15	15	13	13	12	16.8	24.3	
4-Jun-08	11	11	10	9	9	10	13	13	15	16	16	17	18	18	20	20	19	19	18	18	17	15	14	12	15.0	20.1	
5-Jun-08	11	10	9	9	8	9	10	11	12	12	12	12	12	14	16	17	13	13	14	13	12	11	11	10	11.7	16.7	
6-Jun-08	9	8	8	7	6	7	8	9	10	12	13	14	14	14	14	14	14	14	14	14	13	13	12	10	11.2	14.4	
7-Jun-08	9	8	7	7	7	8	10	11	13	15	16	16	17	17	19	17	17	16	16	16	15	13	11	10	13.0	19.1	
8-Jun-08	9	8	7	6	5	6	8	10	13	13	14	15	16	16	17	17	17	16	16	16	14	10	9	9	12.0	17.0	
9-Jun-08	7	6	4	2	1	4	5	9	12	15	16	16	17	18	18	17	17	17	17	15	13	10	9	9	11.4	17.8	
10-Jun-08	10	8	8	8	9	8	8	10	10	10	9	10	11	10	11	11	12	12	11	10	9	9	8	8	9.6	12.0	
11-Jun-08	7	7	6	6	5	5	7	9	10	14	16	17	20	20	19	18	20	20	20	20	18	15	13	12	13.5	20.1	
12-Jun-08	11	10	9	8	8	9	11	12	16	19	21	19	21	22	23	22	21	19	16	16	16	14	13	12	15.3	23.2	
13-Jun-08	11	11	9	8	7	7	9	10	12	13	13	14	15	15	14	15	15	15	13	13	12	9	7	7	11.5	15.2	
14-Jun-08	7	6	6	6	5	7	9	10	10	11	11	12	14	15	17	14	15	16	14	11	11	10	10	9	10.7	16.6	
15-Jun-08	9	8	8	8	9	9	9	10	11	13	15	14	14	16	18	14	15	17	16	17	13	11	10	9	12.2	17.7	
16-Jun-08	9	8	7	7	6	8	9	11	14	16	17	17	19	19	20	20	20	20	20	19	18	16	14	13	14.5	20.3	
17-Jun-08	12	14	12	10	10	11	13	14	15	15	15	14	14	16	18	16	16	16	16	15	12	11	10	9	13.6	18.0	
18-Jun-08	9	8	6	6	5	6	8	11	13	15	17	16	17	19	19	19	19	18	16	13	13	12	11	10	12.7	19.0	
19-Jun-08	10	10	10	10	9	9	10	12	14	16	17	18	19	20	20	21	21	20	21	21	19	16	15	14	15.3	21.0	
20-Jun-08	13	12	11	11	10	10	12	16	17	19	20	21	21	21	21	22	21	22	21	21	20	17	14	14	17.0	22.0	
21-Jun-08	13	13	11	10	11	10	12	12	15	15	19	22	24	25	25	23	21	22	22	21	20	19	19	18	17.6	25.4	
22-Jun-08	18	16	14	15	16	16	16	15	14	15	16	17	17	19	20	20	20	19	18	18	17	15	13	13	16.4	20.2	
23-Jun-08	11	8	8	6	8	9	11	13	15	16	16	16	18	19	20	21	21	21	21	21	18	16	14	15	15.2	21.2	
24-Jun-08	13	12	10	6	7	10	12	14	18	20	20	22	22	17	20	19	18	17	16	16	16	13	11	10	15.0	22.2	
25-Jun-08	9	8	7	8	8	9	11	13	13	15	16	16	17	18	17	17	17	16	16	16	15	14	13	12	13.4	17.6	
26-Jun-08	12	11	10	10	9	8	7	8	9	11	14	15	15	15	15	16	17	16	16	15	15	13	11	10	12.4	16.6	
27-Jun-08	10	9	9	7	7	9	11	14	17	18	19	20	21	22	23	23	24	24	23	23	21	19	18	17	17.1	23.7	
28-Jun-08	15	13	13	13	13	14	15	17	18	20	22	24	24	27	28	27	28	28	28	28	27	25	23	22	21	21.1	28.5
29-Jun-08	19	18	17	16	16	16	17	20	22	24	25	26	27	28	29	29	30	29	28	27	25	23	22	20	23.0	29.5	
30-Jun-08	20	17	18	17	13	15	18	20	22	25	26	27	27	28	28	29	28	28	28	27	27	24	22	20	20	22.7	28.7
Hourly Avg	11.4	10.4	9.6	8.9	8.5	9.3	10.8	12.5	14.3	15.8	17.1	17.8	18.7	19.4	20.1	19.7	19.4	19.1	18.7	18.0	16.5	14.6	13.5	12.5			
Hourly Max	20.3	17.7	18.0	17.3	16.1	15.9	17.6	19.7	22.3	24.6	26.4	26.6	27.1	28.0	28.7	29.4	29.5	29.2	28.1	27.4	25.4	23.2	22.3	20.6			

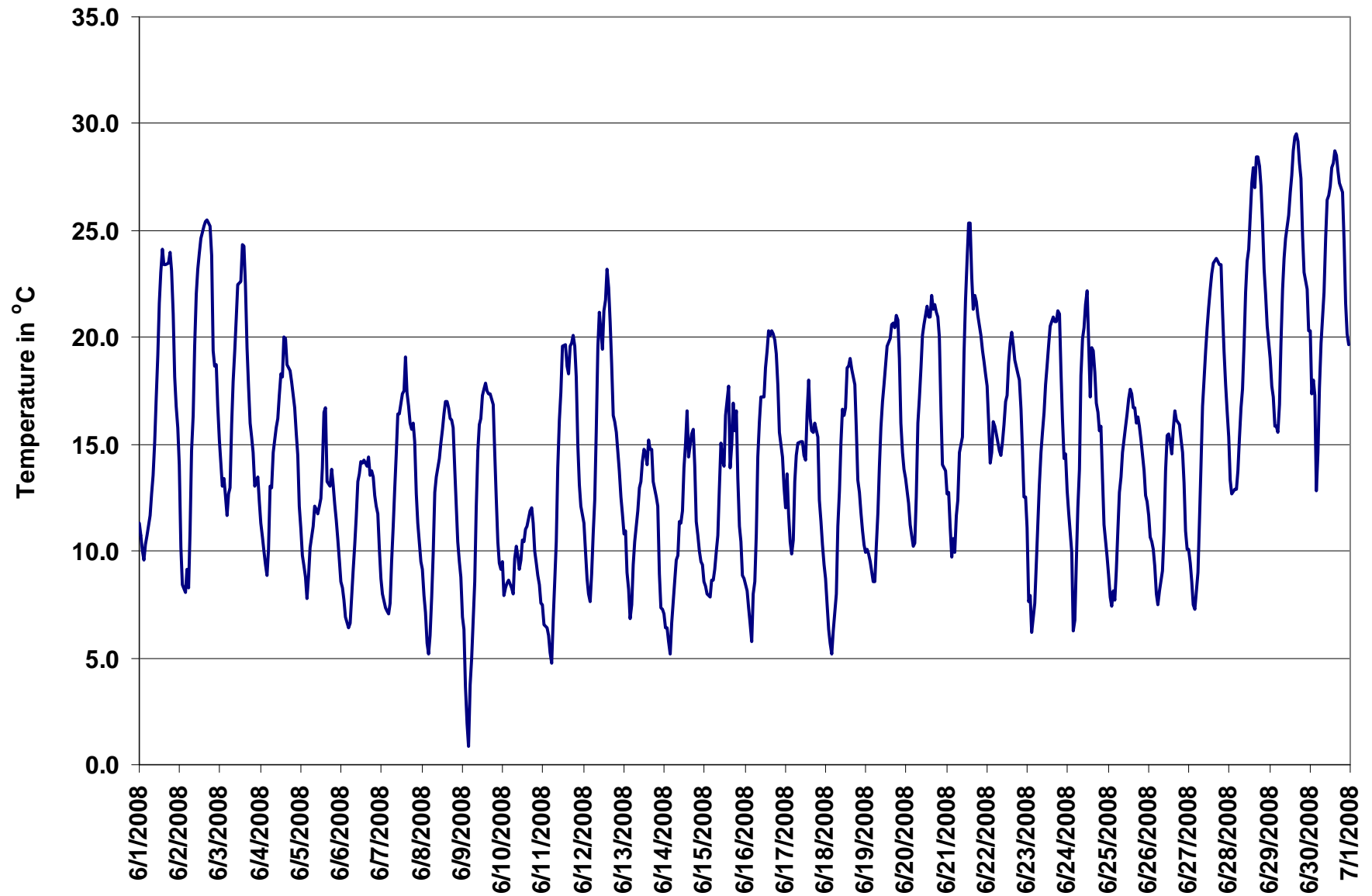


Figure 45. PASZA - Beaverlodge Temperature 1-hr Average Monthly Trend

PASZA - Beaverlodge Scalar Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

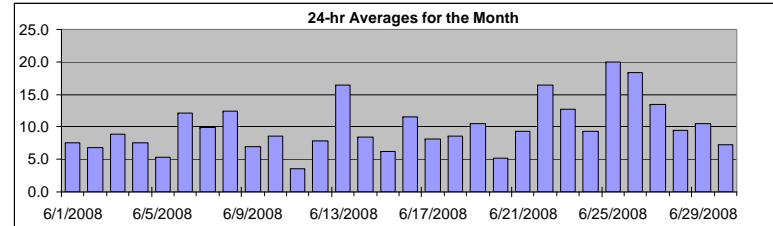
Wind Speed (WSs)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	30.6	km/hr	25-Jun	16:00 17:00
Maximum 24-hr Value:	20.0	km/hr	25-Jun	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	29.0	22.7	14.1	8.3	4.9	2.3	1.4	10.0 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
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-Jun-08	13	13	8	6	10	10	10	13	15	13	6	6	5	5	4	7	7	5	4	4	3	6	8	6	7.6	14.8	
2-Jun-08	4	6	4	3	2	2	2	2	3	3	5	8	12	13	10	9	10	12	11	10	9	6	7	7	6.7	12.6	
3-Jun-08	7	9	5	4	4	5	4	5	8	8	6	5	7	5	8	16	23	21	21	13	10	11	6	2	8.8	23.1	
4-Jun-08	5	7	8	5	3	2	1	4	7	12	14	13	9	10	8	9	13	10	8	9	10	6	4	3	7.5	14.2	
5-Jun-08	2	3	2	2	3	2	3	7	10	6	4	3	9	6	4	7	16	11	8	7	3	4	4	3	5.4	15.9	
6-Jun-08	4	5	7	7	5	6	7	12	15	16	17	17	15	16	17	19	17	16	17	15	13	11	11	8	12.1	18.8	
7-Jun-08	7	6	5	4	5	6	6	7	9	10	11	11	11	11	12	15	19	15	11	12	14	11	11	8	10.0	18.8	
8-Jun-08	10	9	7	7	5	1	3	9	14	17	23	22	22	17	19	18	19	16	15	16	12	7	4	6	12.4	23.3	
9-Jun-08	3	3	4	4	2	1	4	3	3	3	4	7	8	9	10	14	15	15	15	15	9	8	4	4	6.9	14.8	
10-Jun-08	6	7	7	5	3	8	8	9	8	10	14	12	13	12	12	12	12	13	9	6	5	7	6	4	8.6	14.2	
11-Jun-08	4	1	4	3	2	3	1	1	3	3	4	4	4	4	7	5	3	2	5	5	6	4	5	4	3.6	6.8	
12-Jun-08	3	3	2	2	2	3	3	6	5	2	4	10	6	9	10	9	8	20	17	17	16	10	10	13	7.9	20.4	
13-Jun-08	15	19	14	14	11	9	16	26	29	30	28	28	20	18	19	12	9	13	12	12	14	11	10	7	16.4	29.6	
14-Jun-08	10	9	6	7	5	2	8	10	11	9	8	9	8	6	8	18	12	14	17	12	7	4	1	3	8.5	17.5	
15-Jun-08	7	6	2	2	5	4	5	8	6	6	7	7	6	5	5	13	10	5	7	5	9	8	5	3	6.2	13.5	
16-Jun-08	3	4	7	7	5	3	6	9	15	18	20	17	18	18	21	21	18	18	16	12	6	5	6	4	11.6	21.4	
17-Jun-08	5	12	7	2	5	4	2	5	8	9	7	12	15	14	11	17	13	5	4	10	9	7	5	5	8.1	17.5	
18-Jun-08	6	3	3	4	2	2	2	4	5	6	7	11	12	8	9	11	8	10	19	20	18	14	12	10	8.6	19.7	
19-Jun-08	11	9	8	11	7	7	11	14	15	17	15	13	13	12	14	14	12	9	7	8	9	7	4	5	10.5	17.0	
20-Jun-08	4	2	2	1	3	3	3	2	5	5	6	8	6	8	9	7	6	8	11	10	5	4	4	3	5.2	11.0	
21-Jun-08	4	3	3	2	1	3	3	6	6	7	6	5	9	15	17	17	15	17	18	14	15	16	13	9	9.3	17.8	
22-Jun-08	6	3	9	7	11	9	10	12	10	10	8	23	23	26	24	26	29	29	29	24	20	17	12	17	16.5	29.4	
23-Jun-08	12	5	8	4	7	8	8	15	26	26	22	19	23	19	18	17	17	14	12	9	6	3	3	8	12.7	25.6	
24-Jun-08	5	6	3	3	2	2	2	4	3	4	7	7	6	17	9	16	18	20	18	13	13	19	14	11	9.3	19.5	
25-Jun-08	8	5	8	7	7	8	15	24	27	29	28	27	28	28	29	30	31	29	23	20	18	17	17	19	20.0	30.6	
26-Jun-08	17	12	17	17	14	12	19	19	21	19	19	18	23	27	25	25	24	22	21	18	18	16	10	6	18.3	27.1	
27-Jun-08	8	7	3	3	2	2	3	10	15	21	20	21	23	23	22	22	20	19	18	12	12	16	11	10	13.4	23.3	
28-Jun-08	8	4	3	4	4	4	4	4	5	7	7	8	7	6	8	14	18	20	22	19	18	12	12	11	9.5	22.1	
29-Jun-08	5	3	4	2	3	2	3	4	7	19	20	17	16	15	16	19	18	18	20	15	9	9	7	5	10.6	19.7	
30-Jun-08	7	5	8	7	3	2	2	4	6	6	7	10	10	10	9	9	10	11	12	8	7	7	8	6	7.3	11.9	
1-hr Average	7.0	6.3	5.9	5.2	4.8	4.5	6.0	8.6	10.6	11.5	11.9	12.6	12.9	13.1	13.1	14.9	15.0	14.5	14.3	12.3	10.7	9.4	7.8	7.0			
Hourly Max	17.1	19.3	16.6	17.3	14.0	12.3	19.5	25.5	29.2	29.6	28.2	27.8	28.0	27.8	29.2	30.2	30.6	28.6	29.4	24.0	19.8	18.8	16.7	19.0			

PASZA - Beaverlodge Vector Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

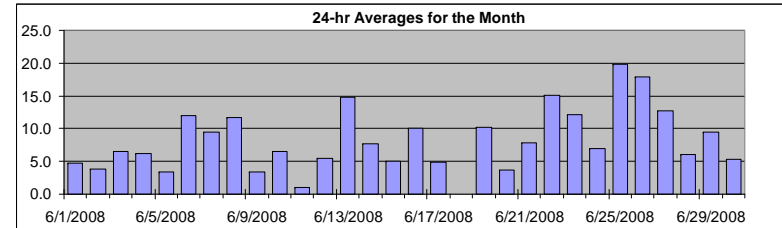
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	30.5	km/hr	25-Jun	16:00 17:00
Maximum 24-hr Value:	19.8	km/hr	25-Jun	



Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	28.4	22.4	13.6	7.8	4.1	1.5	0.6	40.8 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00		
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-Jun-08	13	13	7	5	9	10	12	15	13	6	5	4	2	2	0	6	6	3	3	4	3	6	8	6	6	4.8	14.6
2-Jun-08	4	5	2	3	2	1	1	1	3	3	4	7	11	11	9	9	10	11	11	10	9	3	5	6	6	3.9	11.3
3-Jun-08	4	8	5	3	3	5	4	5	8	8	5	3	5	1	6	10	23	20	21	13	8	9	3	2	6.5	22.7	
4-Jun-08	3	7	7	5	3	2	1	4	7	11	14	12	9	10	7	8	13	9	8	8	8	6	3	2	6.2	14.1	
5-Jun-08	2	2	2	1	2	2	2	7	10	5	4	2	9	6	4	5	15	11	8	6	3	4	4	3	3.3	15.0	
6-Jun-08	2	5	6	7	5	5	7	11	15	16	17	16	15	16	16	18	16	16	17	15	13	11	11	8	12.0	18.4	
7-Jun-08	7	6	5	4	5	6	6	7	9	10	11	11	11	11	12	15	19	15	11	12	14	11	11	8	9.5	18.7	
8-Jun-08	9	9	7	7	5	1	1	9	14	16	23	22	21	16	18	18	19	16	15	15	12	7	4	6	11.6	23.0	
9-Jun-08	3	2	3	2	2	0	3	3	3	1	2	6	5	7	9	13	14	14	15	11	9	7	4	3	3.4	14.6	
10-Jun-08	5	6	7	3	1	5	8	9	8	10	14	12	13	11	11	12	12	13	8	5	5	7	5	3	6.6	13.8	
11-Jun-08	3	1	4	2	2	3	1	1	3	2	3	3	2	1	6	4	2	1	4	5	5	3	5	4	1.0	6.0	
12-Jun-08	3	3	2	2	0	2	1	6	5	2	2	4	5	6	10	8	7	19	16	17	16	10	10	13	5.5	19.4	
13-Jun-08	15	19	14	13	11	9	16	25	29	29	28	27	19	18	17	11	6	6	12	11	14	11	10	7	14.8	29.3	
14-Jun-08	10	9	5	7	3	1	8	10	10	8	7	9	6	5	6	17	12	13	17	12	7	4	1	2	7.6	17.1	
15-Jun-08	7	6	2	2	5	4	5	8	6	6	7	6	2	1	3	12	10	5	7	4	9	8	5	2	5.0	12.1	
16-Jun-08	3	4	7	7	3	2	6	8	15	17	20	17	17	17	21	21	18	18	16	12	6	5	5	2	10.1	20.9	
17-Jun-08	5	11	7	1	5	2	1	5	8	9	6	12	15	13	10	17	12	4	4	8	8	3	4	3	4.8	16.9	
18-Jun-08	4	0	2	2	1	2	2	4	5	6	7	11	12	6	8	10	8	10	18	20	18	14	12	10	-	19.6	
19-Jun-08	11	9	8	11	7	7	11	14	15	17	15	13	12	12	13	14	11	9	6	8	8	7	4	4	10.1	16.7	
20-Jun-08	4	1	1	1	1	3	3	2	4	4	5	6	5	8	8	6	6	8	10	10	4	4	4	3	3.7	10.0	
21-Jun-08	3	3	3	1	1	1	1	3	4	5	4	4	8	15	16	17	14	17	18	14	15	16	13	9	7.8	17.7	
22-Jun-08	6	2	9	7	11	9	10	12	10	10	8	22	23	26	24	25	28	28	29	24	20	17	12	17	15.1	29.3	
23-Jun-08	11	4	8	4	5	6	8	14	25	25	21	18	23	18	17	16	16	14	12	9	6	3	3	8	12.2	25.3	
24-Jun-08	4	6	3	3	1	1	1	2	2	3	6	7	4	14	5	15	18	19	18	13	12	19	14	11	6.9	19.3	
25-Jun-08	7	5	8	7	7	8	15	24	26	29	27	27	27	27	29	30	30	28	23	20	18	17	16	19	19.8	30.5	
26-Jun-08	17	12	17	17	14	12	19	19	21	19	19	18	22	27	25	25	24	22	21	18	18	16	10	6	17.9	26.9	
27-Jun-08	7	7	3	2	1	2	3	9	15	20	20	21	23	23	22	21	20	18	18	12	12	16	11	9	12.7	22.8	
28-Jun-08	7	3	2	3	3	4	4	4	5	6	7	7	6	4	7	14	18	20	22	19	18	12	12	11	6.0	22.0	
29-Jun-08	4	2	3	2	3	0	2	3	6	19	19	16	15	15	15	18	17	18	19	15	9	8	6	5	9.5	19.4	
30-Jun-08	7	4	8	7	3	2	2	3	6	5	6	8	9	9	8	8	9	11	12	7	7	7	8	6	5.3	11.8	
1-hr Vector	3.7	3.7	2.8	2.7	2.1	1.4	3.0	6.5	8.4	8.7	9.2	8.9	8.3	8.3	7.4	10.5	10.6	10.0	9.3	8.1	6.9	6.2	4.4	3.9			
Hourly Max	17.0	19.3	16.5	17.3	14.0	12.2	19.4	25.4	29.0	29.3	27.9	27.4	27.2	27.0	28.8	29.9	30.5	28.4	29.3	23.9	19.7	18.8	16.4	19.0			

PASZA - Beaverlodge Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

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Calm Time: 0 hrs	0% calms	Operational Time: 720 hrs
Calibration Time: 0 hrs		AMD Operational Uptime: 100.0%
Percentile		Average
99	95	75
50	25	5
1		
349.1	330.0	289.4
265.3	192.3	53.3
13.6		
		279 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-Jun-08	113	126	108	67	95	125	146	154	158	177	174	160	164	253	329	74	76	53	352	65	42	43	44	52	113	ESE
2-Jun-08	31	286	5	51	41	298	82	203	202	193	170	174	157	153	127	123	102	111	117	111	92	129	222	344	128	SE
3-Jun-08	347	302	311	292	283	279	229	262	303	302	321	17	75	213	73	242	288	271	282	294	250	283	322	187	286	WNW
4-Jun-08	244	299	278	269	70	88	243	249	260	283	292	299	279	291	277	255	253	231	213	214	250	278	248	152	265	W
5-Jun-08	113	102	143	178	72	57	143	233	252	280	231	80	269	228	145	216	272	301	288	279	293	255	259	262	256	WSW
6-Jun-08	319	288	315	324	317	304	298	308	316	320	329	329	334	335	329	329	338	340	325	330	330	327	328	323	326	NW
7-Jun-08	319	305	303	335	334	330	324	317	320	314	310	314	317	320	291	280	287	295	304	302	292	279	276	279	302	WNW
8-Jun-08	284	288	295	264	265	140	118	240	255	258	256	258	256	266	266	282	286	286	291	290	290	291	288	298	272	W
9-Jun-08	315	329	53	298	313	223	246	203	216	182	157	114	125	123	87	124	108	97	98	158	211	265	272	9	129	SE
10-Jun-08	358	341	21	26	22	332	322	317	324	58	39	6	358	359	340	330	322	314	294	259	219	275	301	48	341	NNW
11-Jun-08	348	239	49	5	236	61	98	89	272	208	166	163	164	24	90	251	202	229	262	210	153	129	100	104	153	SSE
12-Jun-08	113	122	140	117	349	124	125	223	232	251	248	331	94	202	272	263	242	271	286	264	264	272	279	274	263	W
13-Jun-08	267	270	262	248	245	240	260	253	260	268	265	254	267	276	263	328	344	291	354	337	295	275	263	287	271	W
14-Jun-08	282	258	247	257	284	152	284	284	295	300	303	272	324	329	302	252	267	286	316	318	311	286	180	287	287	WNW
15-Jun-08	290	316	346	245	295	276	303	333	326	284	284	335	308	167	104	293	323	328	304	301	286	302	315	197	303	WNW
16-Jun-08	219	209	221	238	216	176	218	234	265	271	270	280	281	288	273	278	272	271	279	295	320	326	14	9	272	W
17-Jun-08	172	225	219	126	253	289	93	295	317	334	298	254	246	245	259	295	294	252	209	294	37	52	65	343	276	W
18-Jun-08	272	249	14	39	110	85	202	212	224	242	239	263	275	262	270	296	292	289	241	230	239	258	260	258	257	WSW
19-Jun-08	253	255	255	256	255	232	244	249	256	277	285	280	279	269	245	263	276	265	265	282	283	283	303	299	266	W
20-Jun-08	279	184	109	62	97	79	184	187	210	181	222	218	164	171	183	193	211	224	211	247	234	242	67	69	201	SSW
21-Jun-08	75	94	79	99	97	5	94	256	168	83	275	78	105	109	110	122	92	78	88	103	96	96	103	106	100	E
22-Jun-08	94	294	314	289	290	307	327	323	324	320	326	291	286	287	288	283	274	268	261	260	268	277	283	284	285	WNW
23-Jun-08	271	232	237	214	249	253	236	254	268	270	264	259	254	266	268	270	262	268	273	286	284	262	331	329	264	W
24-Jun-08	19	340	47	227	27	285	199	263	309	209	176	197	232	270	145	302	289	272	273	265	257	264	270	269	268	W
25-Jun-08	255	231	268	275	256	256	261	273	274	271	274	262	269	274	282	282	283	281	279	270	281	273	274	292	274	W
26-Jun-08	302	302	287	287	284	255	260	268	268	277	291	297	293	287	284	289	288	287	275	269	266	271	268	265	281	W
27-Jun-08	252	236	226	213	112	101	212	242	268	266	273	276	280	288	276	281	289	282	276	279	270	286	287	285	275	W
28-Jun-08	263	151	113	96	101	108	159	181	190	209	258	229	204	159	229	284	287	290	289	289	290	306	319	331	274	W
29-Jun-08	356	315	269	238	232	137	90	201	265	278	278	282	287	291	289	293	284	287	281	284	316	316	300	358	288	WNW
30-Jun-08	325	314	328	334	179	66	81	304	321	348	323	326	326	342	346	1	16	34	51	40	46	59	62	95	4	N
Hourly Avg	290	273	287	280	274	269	251	261	270	277	277	277	276	276	277	282	287	285	283	277	278	285	293	302		

PASZA - Beaverlodge Standard Deviation of Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	89.5	72.2	34.0	15.1	8.9	4.6	3.5

Status Flag Characters

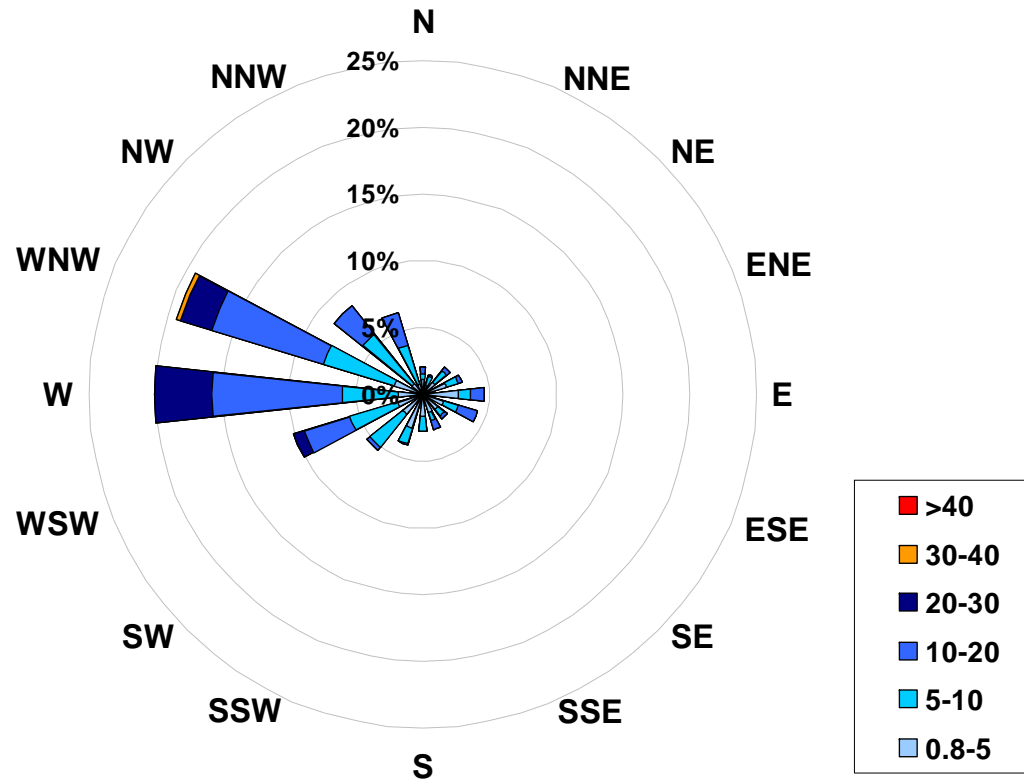
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day Mountain Standard Time

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	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-Jun-08	8	4	19	45	25	6	10	8	11	20	35	61	84	88	95	29	32	61	38	15	8	9	5	8	95.1	
2-Jun-08	31	62	53	31	80	81	25	49	30	40	28	22	27	30	22	25	19	19	12	4	5	76	46	29	81.5	
3-Jun-08	49	20	7	13	38	17	15	19	27	22	42	61	47	90	41	70	10	12	9	4	30	39	61	62	89.7	
4-Jun-08	56	14	16	50	31	17	53	17	21	13	8	14	21	13	24	37	10	16	8	13	35	11	38	38	56.3	
5-Jun-08	29	29	23	26	50	68	41	23	9	18	50	80	10	28	23	50	22	7	14	15	14	8	6	9	80.5	
6-Jun-08	61	6	13	4	6	21	7	7	6	8	11	12	15	9	11	12	13	12	9	7	6	6	6	5	60.6	
7-Jun-08	3	6	8	13	9	9	8	9	14	16	13	11	21	15	17	9	6	6	7	10	6	3	3	8	20.9	
8-Jun-08	3	8	12	11	29	84	60	9	12	16	9	10	15	21	15	16	12	14	11	8	5	8	12	10	83.5	
9-Jun-08	32	48	29	65	48	96	35	25	44	76	84	49	66	43	28	15	19	12	9	41	19	12	23	41	96.0	
10-Jun-08	14	27	13	59	76	65	5	7	17	21	14	13	15	14	15	10	8	7	37	23	18	14	44	20	75.5	
11-Jun-08	50	80	20	75	21	15	21	59	18	53	47	52	58	96	28	51	72	61	54	26	10	40	19	13	96.0	
12-Jun-08	23	32	50	25	88	58	50	11	19	62	70	71	29	61	20	26	39	20	9	6	7	6	5	6	88.4	
13-Jun-08	5	3	4	6	7	17	11	6	7	7	9	10	13	9	34	35	50	92	17	14	8	11	6	6	91.7	
14-Jun-08	4	8	21	4	63	72	24	10	12	33	24	21	40	50	44	14	21	11	10	5	6	15	49	74	73.7	
15-Jun-08	5	8	60	45	14	14	10	18	21	29	25	76	83	72	44	13	29	20	25	9	13	9	54		82.7	
16-Jun-08	38	14	7	10	72	35	13	17	12	10	11	12	13	16	13	10	13	11	12	6	7	13	28	91	90.8	
17-Jun-08	25	24	10	75	34	70	86	23	18	12	25	15	11	14	21	20	28	48	16	47	24	79	21	58	85.8	
18-Jun-08	50	92	61	48	77	51	38	23	26	24	29	21	24	39	25	18	22	19	16	4	8	3	5	4	92.3	
19-Jun-08	5	8	8	4	6	4	6	6	12	11	14	19	20	25	20	17	23	21	34	11	10	7	13	46	45.8	
20-Jun-08	10	65	91	55	83	15	36	40	31	44	51	49	58	29	19	31	26	16	29	10	23	28	27	12	91.2	
21-Jun-08	17	16	10	37	64	81	78	77	52	55	65	35	22	12	9	9	15	6	5	6	5	4	4	5	81.0	
22-Jun-08	14	75	13	12	5	7	8	7	6	7	11	10	7	7	9	10	13	11	6	5	5	4	4	5	74.7	
23-Jun-08	25	71	9	42	59	69	8	13	8	9	11	14	9	17	16	19	17	13	12	10	4	54	36	9	70.6	
24-Jun-08	34	38	35	27	68	64	65	57	62	44	39	27	62	49	57	19	14	7	6	6	9	5	4	4	68.3	
25-Jun-08	27	29	14	14	8	4	7	6	8	9	12	11	13	14	9	8	6	8	8	8	6	7	10	4	28.8	
26-Jun-08	6	4	4	3	6	7	6	7	7	8	12	9	9	6	7	5	7	5	10	6	5	5	3	13	13.4	
27-Jun-08	19	9	45	59	36	27	24	14	14	13	12	11	11	9	12	12	8	13	11	12	9	6	4	6	58.6	
28-Jun-08	12	40	35	19	15	12	11	13	11	18	21	24	24	59	32	15	8	7	6	4	4	3	11	6	58.8	
29-Jun-08	34	82	45	57	24	77	45	46	45	8	11	14	13	14	15	12	12	9	5	6	15	23	61	23	81.6	
30-Jun-08	12	54	6	27	31	58	42	52	14	38	43	33	25	27	34	34	27	15	9	10	10	6	9	7	57.9	

Hourly Max	61	92	91	75	88	96	86	77	62	76	84	80	84	96	95	70	72	92	54	47	35	79	61	91
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1-hr Average Wind Rose (in km/hr) Located at the Beaverlodge Site for June 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	186
5	to	10	242
10	to	20	235
20	to	30	55
30	to	40	2
	>	40	0
Total Non-Zero Values			720

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

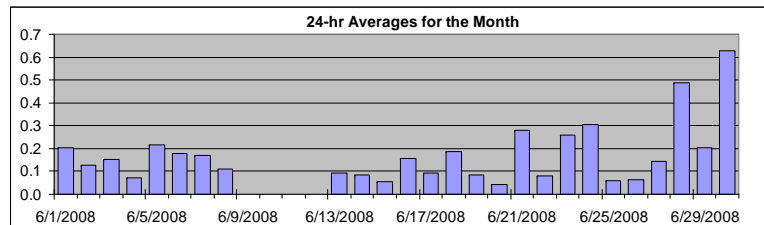
Sulphur Dioxide (SO₂)

Monitoring Dates: June 1, 2008 to July 1, 2008

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:	2.6 ppb 11-Jun 9:00 10:00
Maximum 24-hr Average:	0.6 ppb 30-Jun



AIC Time:	29 hrs	Operational Time:	647 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	94.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.5	0.7	0.2	0.1	0.0	0.0	0.0	0.2 ppb	0.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00	
1-Jun-08	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	0	0.2	1.3
2-Jun-08	0	0	0	0	0	0	0	0	0	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.7
3-Jun-08	0	0	0	0	0	0	0	0	1	A	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0.2	1.5
4-Jun-08	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
5-Jun-08	0	0	0	0	0	0	A	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
6-Jun-08	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	0.2	0.6
7-Jun-08	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	0.2	0.6	
8-Jun-08	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	0.1	0.5
9-Jun-08	0	0	A	0	0	1	1	1	1	1	0	0	0	0	P	P	P	P	P	P	P	P	P	P	P	N	0.9	
10-Jun-08	P	P	P	P	P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
11-Jun-08	A	0	0	0	0	0	1	1	2	3	1	0	P	P	P	P	P	P	P	P	P	P	P	P	P	N	2.6	
12-Jun-08	P	P	P	P	P	P	P	P	P	P	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N	0.3
13-Jun-08	0	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6
14-Jun-08	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
15-Jun-08	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	0.9	
16-Jun-08	0	A	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	1.0	
17-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0.1	0.3	
18-Jun-08	0	0	0	A	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.6	
19-Jun-08	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	0.1	0.5	
20-Jun-08	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	
21-Jun-08	A	1	0	0	1	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	1.5	
22-Jun-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.5	
23-Jun-08	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	1.2	
24-Jun-08	0	0	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	A	0	1	1	0.3	0.9	
25-Jun-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.1	0.2	
26-Jun-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.1	0.2	
27-Jun-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	1	1	0.1	1.4	
28-Jun-08	1	1	1	0	0	1	1	0	0	0	0	0	1	0	0	0	A	0	0	1	0	0	0	0	0	0.5	1.4	
29-Jun-08	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.2	0.9	
30-Jun-08	0	1	0	1	1	1	1	2	2	1	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.6	1.8	
Hourly Avg	0.3	0.2	0.3	0.3	0.2	0.2	0.3	0.4	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2			
Hourly Max	1.4	1.3	1.2	1.1	1.3	1.0	1.6	1.8	2.1	2.6	1.5	0.5	0.6	0.4	0.4	0.3	0.2	0.3	1.5	0.6	0.3	0.3	0.6	1.4				

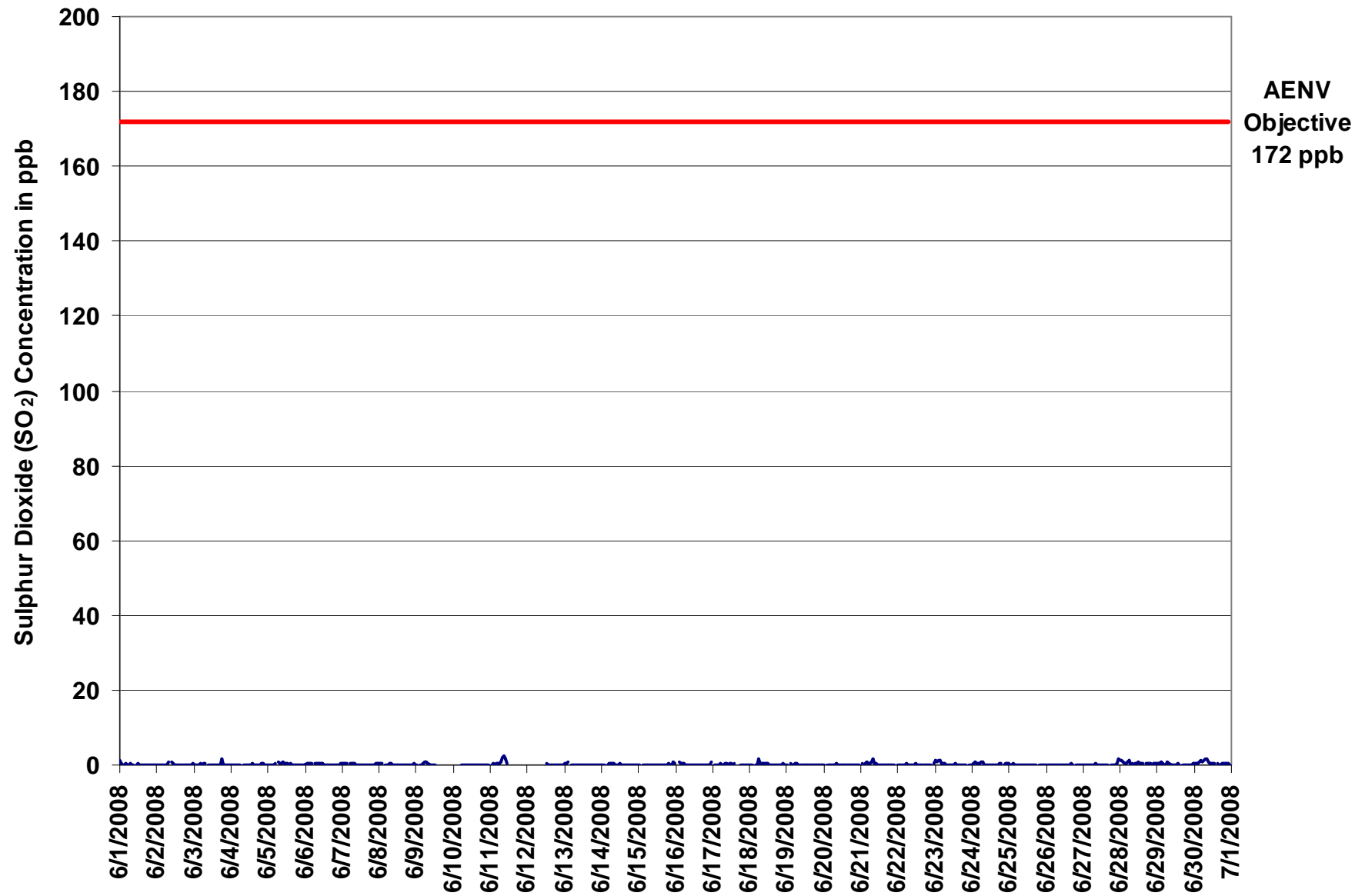


Figure 46. PASZA - Portable-Spirit River Sulphur Dioxide 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

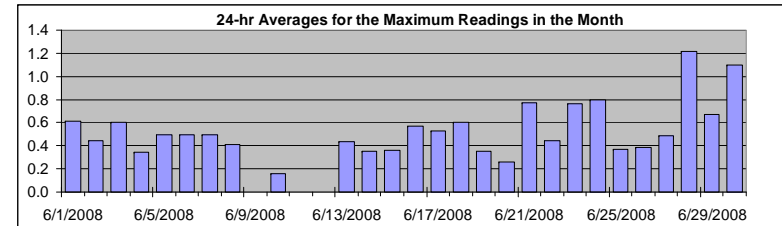
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	4.7	ppb	3-Jun	18:00 19:00
Maximum 24-hr Value:	1.2	ppb	28-Jun	



AIC Time:	29 hrs	Operational Time:	647 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	94.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.8	1.7	0.7	0.3	0.3	0.1	0.1	0.5 ppb	0.3 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	24-hour Average	Daily Maximum	
1-Jun-08	2	1	1	0	1	0	1	1	0	1	A	1	1	1	1	0	1	0	1	0	0	0	0	0	0.6	2.2	
2-Jun-08	0	0	0	0	0	0	0	1	1	A	1	1	1	0	0	0	0	0	0	0	0	1	1	2	0.4	1.7	
3-Jun-08	1	1	0	1	1	1	1	1	A	0	0	0	0	0	0	0	0	5	0	0	2	0	0	0	0.6	4.7	
4-Jun-08	0	0	0	0	0	0	0	A	1	0	0	0	0	1	1	1	0	0	1	0	1	1	0	0	0.3	0.8	
5-Jun-08	0	0	0	0	0	0	A	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.0	
6-Jun-08	0	0	1	1	1	A	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.5	1.2	
7-Jun-08	1	1	1	1	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.5	0.9	
8-Jun-08	1	1	1	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4	1.4	
9-Jun-08	1	0	A	0	0	1	1	2	1	1	0	0	0	P	P	P	P	P	P	P	P	P	P	P	N	1.6	
10-Jun-08	P	P	P	P	P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2
11-Jun-08	A	1	1	0	1	1	1	2	3	3	2	1	P	P	P	P	P	P	P	P	P	P	P	P	N	3.2	
12-Jun-08	P	P	P	P	P	P	P	P	P	P	P	C	C	1	0	0	0	0	0	0	0	0	0	0	N	0.7	
13-Jun-08	1	1	1	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.3	
14-Jun-08	0	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.9	
15-Jun-08	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0.4	1.8	
16-Jun-08	2	A	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.6	2.2	
17-Jun-08	A	1	0	0	0	1	1	0	1	0	1	1	1	0	1	C	C	C	0	0	0	0	0	0	0.5	1.4	
18-Jun-08	0	0	1	A	0	1	3	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.6	3.4	
19-Jun-08	0	0	A	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9	
20-Jun-08	0	A	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7	
21-Jun-08	A	2	1	1	1	1	1	2	3	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0.8	2.6	
22-Jun-08	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	A	2	0.4	1.9	
23-Jun-08	3	2	2	2	1	1	1	1	0	1	1	0	1	1	1	1	0	0	0	0	0	A	0	0	0.8	3.0	
24-Jun-08	0	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	2	2	A	1	1	1	0.8	2.3	
25-Jun-08	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	1	0	0	0.4	0.8	
26-Jun-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.4	0.4	
27-Jun-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	1	2	0.5	2.4	
28-Jun-08	2	2	1	1	2	3	2	0	1	0	0	1	1	1	1	A	0	0	3	1	1	1	1	1	1.2	3.2	
29-Jun-08	1	1	1	2	1	0	1	2	1	0	0	0	0	0	0	A	0	0	0	0	0	1	0	1	0.7	1.9	
30-Jun-08	1	1	1	1	2	1	2	3	3	1	1	1	1	1	A	1	0	0	1	1	0	1	0	0	1.1	2.8	
Hourly Avg	0.7	0.8	0.8	0.7	0.6	0.7	0.8	0.8	0.8	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.3	0.4	0.4	0.7			
Hourly Max	3.0	2.3	1.9	2.4	1.9	2.9	3.4	2.8	2.7	3.2	2.2	1.2	0.9	0.9	1.4	0.9	0.5	0.7	4.7	3.2	1.4	1.6	1.3	2.4			

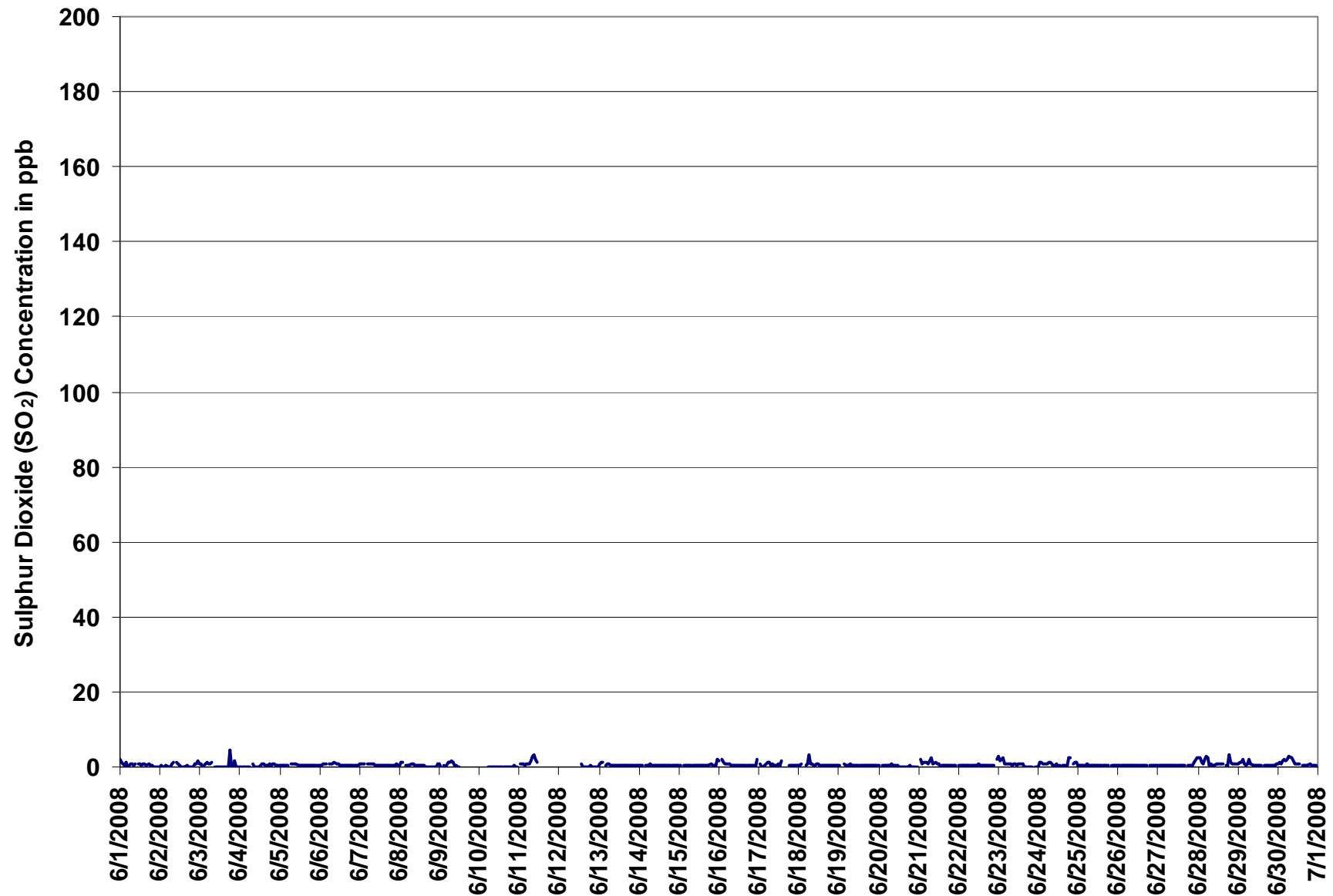
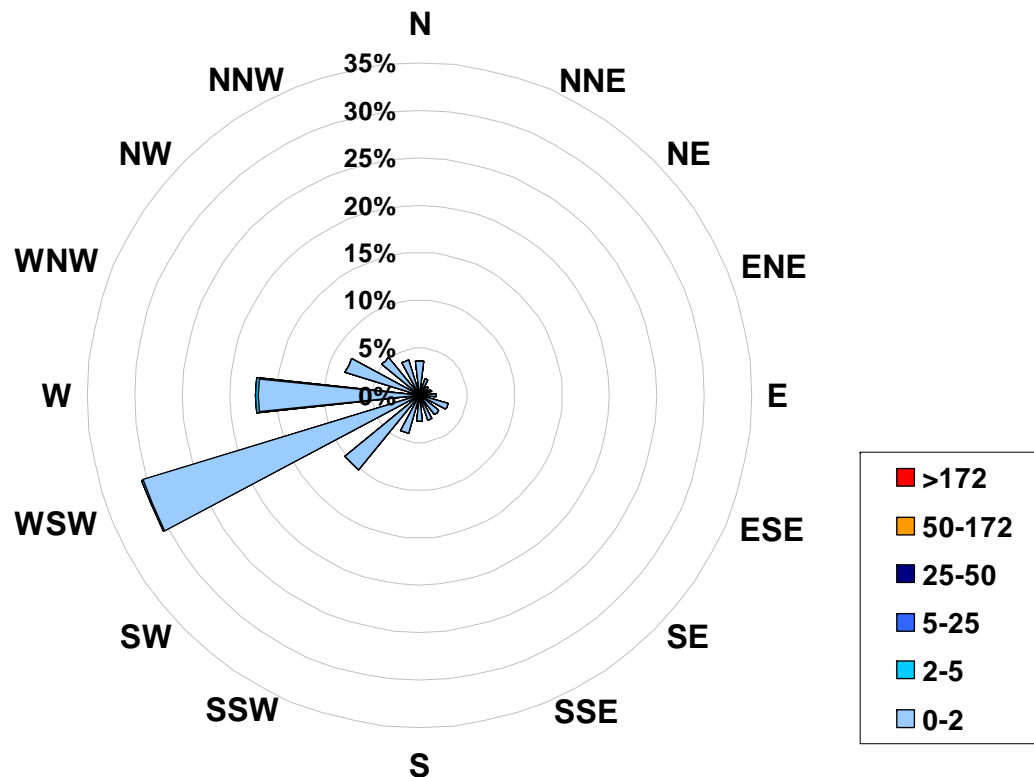


Figure 47. PASZA - Portable-Spirit River Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Portable-Spirit River Site for June 2008



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	645
2	to	5	2
5	to	25	0
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			647

PASZA - Portable-Spirit River Nitrogen Dioxide Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

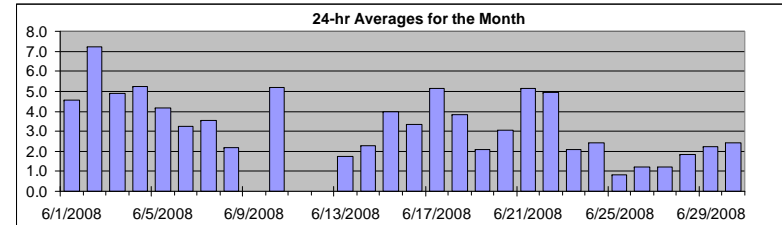
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: June 1, 2008 to July 1, 2008

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:	18.6 ppb 2-Jun 3:00 4:00
Maximum 24-hr Average:	7.2 ppb 2-Jun



AIC Time:	30 hrs	Operational Time:	644 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	94.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	14.5	11.2	4.4	2.0	1.1	0.4	0.3	3.4 ppb	2.0 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			0:00	
1-Jun-08	0:00	5	8	12	9	8	10	6	4	3	2	A	2	1	1	1	1	1	1	1	2	4	8	11	4.5	11.8		
2-Jun-08	1:00	12	12	17	19	14	14	12	8	5	A	4	2	1	1	1	1	1	1	2	7	16	9	8	7.2	18.6		
3-Jun-08	2:00	6	15	14	12	10	14	7	3	A	2	1	2	1	1	1	1	1	3	3	3	3	4	4	4.9	14.5		
4-Jun-08	3:00	9	10	11	14	15	10	9	A	6	3	2	2	2	2	1	2	1	2	2	4	5	4	6	5.3	15.4		
5-Jun-08	4:00	9	6	6	7	5	10	A	7	5	3	2	1	1	1	1	1	2	2	2	3	7	9	5	4.2	10.5		
6-Jun-08	5:00	5	5	4	4	3	A	4	3	3	3	3	3	2	2	2	1	2	2	2	4	4	3	5	7	3.2	6.6	
7-Jun-08	6:00	6	6	5	5	A	6	4	3	3	2	1	1	1	1	1	1	1	1	2	3	4	9	8	5	3.6	8.9	
8-Jun-08	7:00	4	3	5	A	3	3	2	1	1	0	0	0	0	0	1	1	0	1	1	1	5	7	7	2.2	7.3		
9-Jun-08	8:00	6	6	A	6	5	5	2	2	3	1	1	2	2	P	P	P	P	P	P	P	P	P	P	P	N	6.2	
10-Jun-08	9:00	P	P	P	P	P	13	7	6	4	3	2	2	2	2	2	1	1	2	2	2	8	14	14	11	5.2	14.3	
11-Jun-08	10:00	A	11	9	9	8	8	8	5	3	3	2	1	P	P	P	P	P	P	P	P	P	P	P	P	N	11.0	
12-Jun-08	11:00	P	P	P	P	P	P	P	P	P	P	C	C	C	A	2	2	2	2	2	2	3	4	4	4	N	4.4	
13-Jun-08	12:00	3	4	4	A	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	4	3	3	3	1.7	4.0	
14-Jun-08	13:00	3	3	3	A	4	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	3	3	4	8	2.3	8.4	
15-Jun-08	14:00	9	8	A	12	9	6	6	3	2	2	1	1	1	1	1	1	1	1	3	4	5	7	7	4.0	11.6		
16-Jun-08	15:00	7	A	4	3	3	3	2	1	1	1	1	1	1	1	1	1	1	1	2	2	6	13	11	9	3.3	13.0	
17-Jun-08	16:00	A	12	11	7	6	9	6	4	3	2	2	1	1	1	1	1	C	C	C	C	2	4	7	9	9	5.2	11.7
18-Jun-08	17:00	9	9	9	A	12	8	5	3	1	1	1	1	1	1	1	1	1	3	3	3	5	3	3	3	3.8	12.0	
19-Jun-08	18:00	3	2	A	3	2	2	1	1	1	1	1	1	1	1	0	0	0	1	1	1	4	6	9	7	2.1	9.1	
20-Jun-08	19:00	7	A	6	4	4	5	6	5	2	1	1	1	1	1	1	1	1	1	1	3	6	7	6	3.1	6.8		
21-Jun-08	20:00	A	7	8	11	11	8	8	8	4	2	2	2	1	1	1	1	0	1	1	3	4	6	13	12	A	5.1	13.2
22-Jun-08	21:00	14	15	17	12	11	12	6	2	2	2	2	2	2	1	1	1	1	1	1	1	2	A	5	4.9	17.5		
23-Jun-08	22:00	3	4	3	2	2	2	2	1	0	1	1	1	1	1	0	0	1	2	2	1	3	A	8	6	2.1	8.0	
24-Jun-08	23:00	6	5	5	6	4	3	3	2	2	1	1	0	0	0	1	1	1	1	1	A	5	3	3	2.4	5.6		
25-Jun-08	0:00	2	1	1	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	2	2	2	1	0.8	1.9	
26-Jun-08	1:00	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	A	2	3	4	4	3	1.2	3.9	
27-Jun-08	2:00	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	A	2	1	2	5	3	3	1.2	4.7	
28-Jun-08	3:00	2	2	2	2	3	3	3	2	1	1	1	1	1	0	1	1	A	2	1	3	3	3	3	3	1.8	3.1	
29-Jun-08	4:00	3	3	2	3	3	4	3	2	1	1	1	1	1	1	1	A	2	1	1	2	2	5	5	5	2.2	5.4	
30-Jun-08	5:00	4	5	3	3	3	3	3	3	2	2	2	1	1	1	A	2	1	1	1	1	3	4	3	4	2.4	4.5	
Hourly Avg		5.6	6.3	6.5	6.5	5.8	6.1	4.4	3.0	2.3	1.6	1.4	1.2	1.1	0.9	0.9	0.9	1.0	1.3	1.6	1.9	3.5	5.8	6.3	5.7			
Hourly Max		13.5	14.7	17.5	18.6	15.4	14.5	12.1	7.8	5.7	3.3	4.3	2.5	2.0	1.8	1.7	1.9	1.9	3.4	3.3	4.1	8.4	15.7	14.3	11.2			

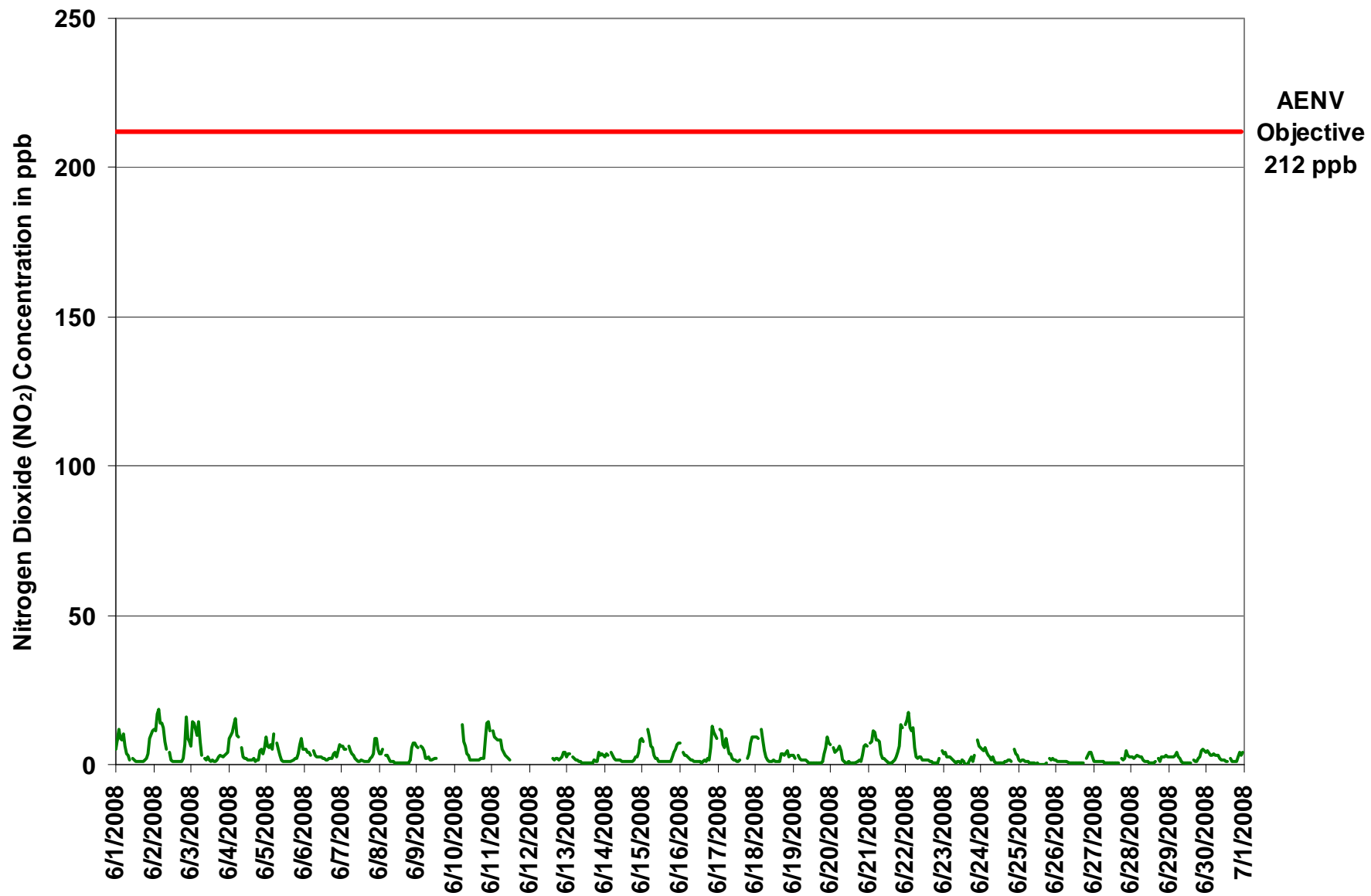


Figure 48. PASZA - Portable-Spirit River Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

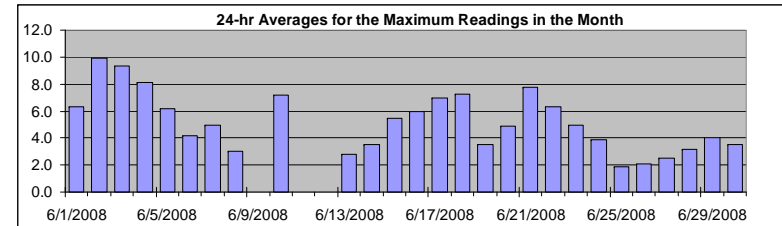
Nitrogen Dioxide (NO₂)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	31.1	ppb	18-Jun	17:00 18:00
Maximum 24-hr Value:	9.9	ppb	2-Jun	

AIC Time:	30 hrs	Operational Time:	644 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	94.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	21.7	15.4	7.0	3.4	1.7	0.8	0.6	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

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-Jun-08	6	11	18	11	10	13	10	4	4	3	A	4	2	2	1	2	1	2	1	3	5	12	18	6.3	17.9	
2-Jun-08	17	18	22	24	16	15	15	10	7	A	7	3	1	2	2	4	2	2	2	3	12	24	11	11	9.9	24.3
3-Jun-08	8	31	21	15	11	17	14	4	A	3	2	26	4	3	7	1	5	4	12	7	3	4	5	9	9.3	30.8
4-Jun-08	11	11	12	21	20	11	12	A	10	8	3	2	2	3	2	2	5	5	6	3	12	10	9	7	8.1	20.5
5-Jun-08	13	7	7	8	6	15	A	10	6	4	2	4	1	1	1	1	1	2	3	3	5	17	16	6	6.2	17.0
6-Jun-08	7	6	5	4	4	A	5	4	3	3	3	3	3	2	2	2	3	3	3	5	6	3	7	8	4.1	7.6
7-Jun-08	8	8	7	6	A	7	6	4	3	2	2	2	1	2	2	1	1	2	8	3	5	14	11	8	5.0	14.1
8-Jun-08	5	5	7	A	5	5	3	2	1	2	1	1	1	1	1	1	1	1	1	1	2	8	8	8	3.0	8.5
9-Jun-08	7	6	A	7	6	6	4	3	4	6	8	15	17	P	P	P	P	P	P	P	P	P	P	P	N	17.1
10-Jun-08	P	P	P	P	P	16	10	8	5	4	2	2	2	2	2	2	2	3	3	3	15	20	20	14	7.2	20.5
11-Jun-08	A	P	14	10	10	10	10	7	6	3	2	2	P	P	P	P	P	P	P	P	P	P	P	P	N	13.8
12-Jun-08	P	P	P	P	P	P	P	P	P	P	P	C	C	C	A	4	3	3	3	2	3	4	5	6	N	6.2
13-Jun-08	4	5	6	A	4	2	2	3	1	2	1	1	2	1	4	1	1	2	2	3	6	4	4	4	2.8	6.4
14-Jun-08	3	4	4	A	5	6	3	2	2	2	3	2	2	2	3	1	1	1	2	2	5	5	9	13	3.5	12.6
15-Jun-08	11	10	A	14	11	10	7	4	3	2	2	1	2	2	2	1	1	1	2	5	7	7	8	13	5.5	14.2
16-Jun-08	12	A	7	4	4	3	3	3	2	2	2	1	3	1	1	2	18	5	8	3	13	17	14	10	6.0	18.1
17-Jun-08	A	14	15	10	7	10	8	4	4	3	2	2	3	2	3	C	C	C	C	2	7	11	12	14	7.0	15.2
18-Jun-08	12	11	10	A	16	11	6	5	2	1	1	1	5	2	1	2	2	31	17	8	10	4	4	6	7.3	31.1
19-Jun-08	4	3	A	4	2	2	2	2	3	1	1	1	1	1	1	1	1	1	1	2	15	12	12	9	3.5	15.2
20-Jun-08	9	A	7	7	5	7	9	8	3	1	2	1	4	2	1	2	4	2	3	2	5	13	9	9	4.9	13.1
21-Jun-08	A	9	16	16	14	10	13	12	6	3	2	2	1	1	1	1	1	3	4	6	9	22	18	A	7.7	22.3
22-Jun-08	17	19	20	14	13	15	8	3	3	4	4	2	2	3	2	1	1	2	1	1	1	4	A	6	6.3	20.3
23-Jun-08	4	6	3	5	3	2	2	5	1	12	4	4	6	3	1	1	3	10	6	10	7	A	10	7	4.9	11.6
24-Jun-08	6	6	6	6	5	4	4	3	6	2	1	1	2	1	2	5	1	4	2	1	A	9	6	4	3.9	9.4
25-Jun-08	3	1	2	2	1	2	4	4	1	0	2	1	2	2	1	1	1	1	1	A	3	2	3	2	1.9	4.2
26-Jun-08	3	1	2	1	1	1	1	5	1	1	1	1	1	2	1	1	1	2	A	4	5	6	5	3	2.1	5.6
27-Jun-08	1	1	1	1	1	1	3	1	3	6	1	1	1	1	1	1	9	A	3	2	3	9	5	3	2.5	9.1
28-Jun-08	3	3	3	3	5	3	3	2	1	1	1	1	1	1	1	1	A	7	1	6	6	8	6	5	3.1	7.6
29-Jun-08	4	6	5	8	7	5	4	4	2	1	1	1	1	1	2	A	3	1	2	5	8	7	7	7	4.0	8.4
30-Jun-08	7	9	4	4	4	3	3	4	3	2	2	2	1	1	A	3	1	1	1	2	4	6	5	6	3.5	9.5
Hourly Avg	7.3	8.7	8.8	8.6	7.3	7.7	6.2	4.6	3.4	3.1	2.2	3.1	2.6	1.7	1.8	1.7	2.8	3.9	3.8	3.5	6.7	9.3	9.0	8.0		
Hourly Max	17.0	30.8	22.3	24.3	20.0	17.3	14.7	11.8	10.0	11.6	7.6	25.8	17.1	3.2	7.3	5.4	18.1	31.1	16.6	10.0	15.4	23.7	20.5	17.9		

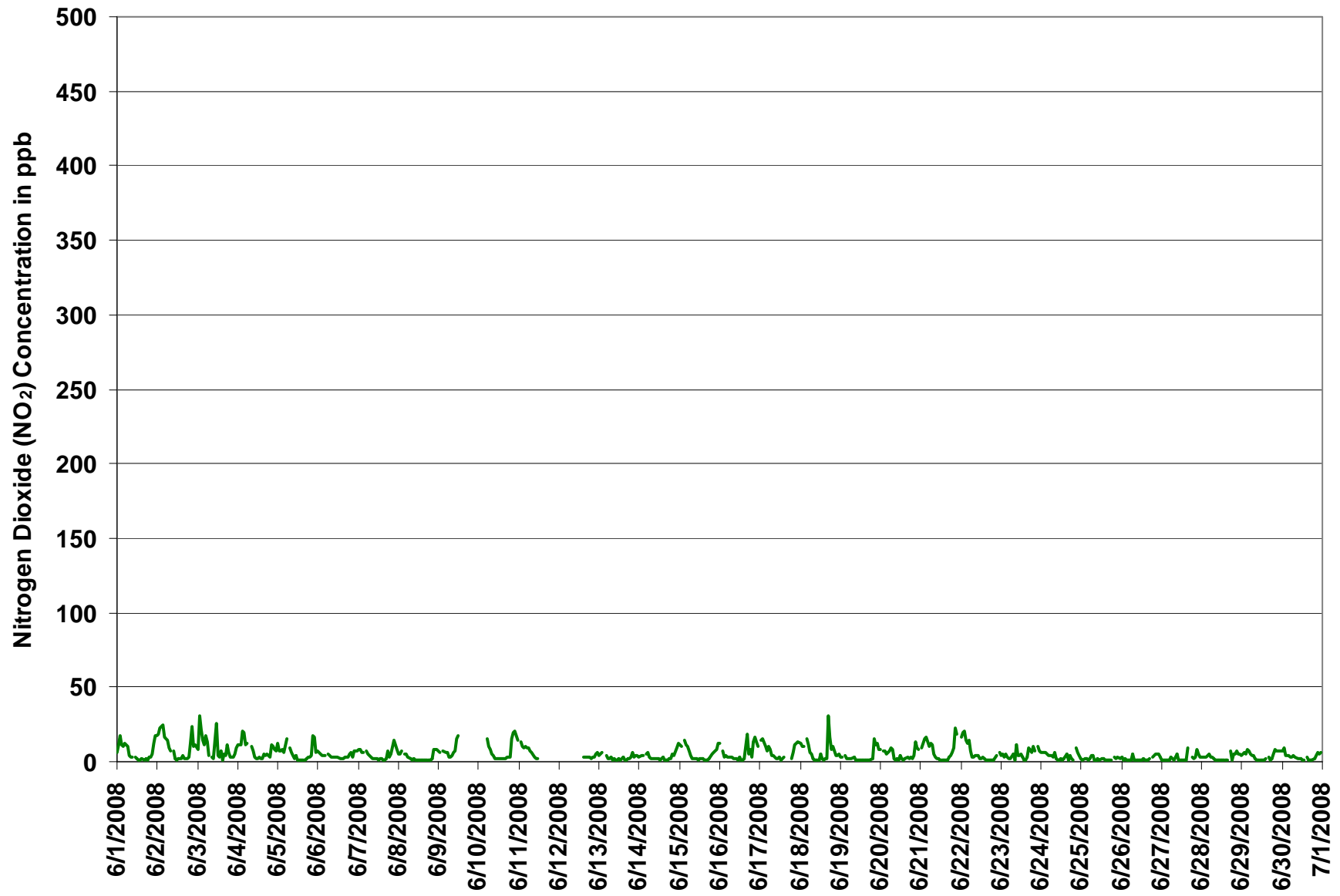
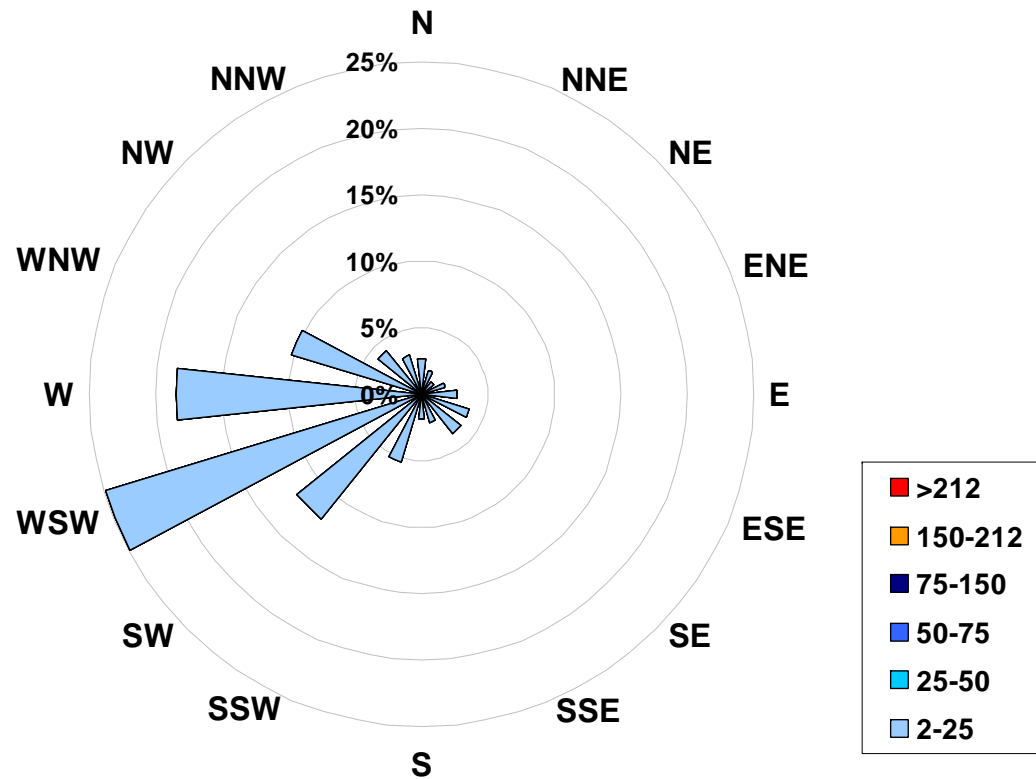


Figure 49. PASZA - Portable-Spirit River Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Portable-Spirit River Site for June 2008



Calms: 0%

Frequency Distribution of NO ₂ in ppb			
Range		Frequency (hrs)	
2.0	< 25	644	
25	to 50	0	
50	to 75	0	
75	to 150	0	
150	to 212	0	
	> 212	0	
Total Non-Zero Values		644	

PASZA - Portable-Spirit River Nitric Oxide Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

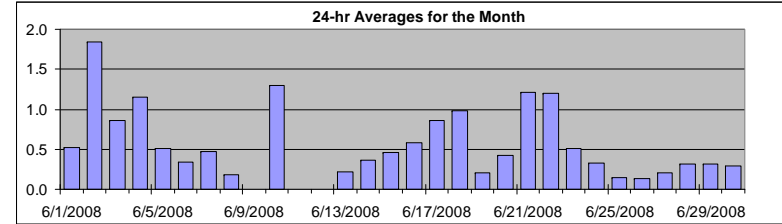
HOURLY AVERAGE TABLE

Nitric Oxide (NO)

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Maximum 1-hr Average:	13.2	ppb	2-Jun	3:00 4:00
Maximum 24-hr Average:	1.8	ppb	2-Jun	



AIC Time:	30 hrs	Operational Time:	644 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	94.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.9	2.5	0.5	0.3	0.1	0.0	0.0	0.6 ppb	0.3 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start 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-Jun-08	0	0	2	0	1	3	2	1	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0.5	3.1
2-Jun-08	1	1	3	13	5	6	5	3	2	A	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1.8	13.2
3-Jun-08	0	4	2	2	1	4	2	1	A	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0.9	4.3
4-Jun-08	0	0	1	5	7	3	4	A	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1.1	7.2
5-Jun-08	1	0	0	1	0	3	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.5	2.5
6-Jun-08	0	0	0	0	0	A	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
7-Jun-08	0	0	0	0	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0.5	2.0
8-Jun-08	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.2	0.6
9-Jun-08	0	0	A	0	0	1	1	1	1	1	1	1	2	P	P	P	P	P	P	P	P	P	P	P	N	1.5
10-Jun-08	P	P	P	P	P	8	2	1	0	1	0	0	0	0	0	0	0	0	0	0	1	3	3	4	1.3	8.1
11-Jun-08	A	2	2	2	2	9	6	3	2	1	0	0	P	P	P	P	P	P	P	P	P	P	P	P	N	8.9
12-Jun-08	P	P	P	P	P	P	P	P	P	P	C	C	C	A	0	0	0	0	0	0	0	0	0	0	N	0.3
13-Jun-08	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
14-Jun-08	0	0	0	A	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4	1.1
15-Jun-08	1	1	A	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.4
16-Jun-08	1	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1	3	2	1	0.6	2.8
17-Jun-08	A	0	1	0	0	2	2	2	1	1	0	0	0	0	0	0	C	C	C	C	0	0	2	2	0.9	2.5
18-Jun-08	1	1	2	A	4	5	1	1	0	0	0	0	0	0	0	0	0	2	1	0	1	1	0	0	1.0	5.2
19-Jun-08	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0.2	0.6
20-Jun-08	1	A	0	0	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.5
21-Jun-08	A	0	1	1	3	5	4	5	1	0	0	0	0	0	0	0	0	0	0	0	0	2	2	A	1.2	4.8
22-Jun-08	3	3	7	5	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	1.2	7.1
23-Jun-08	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	2	2	0	0	A	1	1	0.5	1.6
24-Jun-08	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	1.5
25-Jun-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.1	0.4
26-Jun-08	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	0.4
27-Jun-08	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.2	0.9
28-Jun-08	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	A	0	0	1	0	0	0	0.3	0.8
29-Jun-08	0	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.3	0.9
30-Jun-08	0	0	0	0	0	1	1	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.3	0.9
Hourly Avg	0.5	0.7	1.0	1.4	1.1	2.1	1.5	1.0	0.7	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.2	0.3	0.7	0.7	0.6	
Hourly Max	3.0	4.2	7.1	13.2	7.2	8.9	6.1	4.8	2.2	0.9	0.7	1.1	1.5	0.5	0.3	0.4	0.5	2.2	1.6	0.8	0.7	2.8	2.8	3.6		

Station: Portable-Spirit River
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

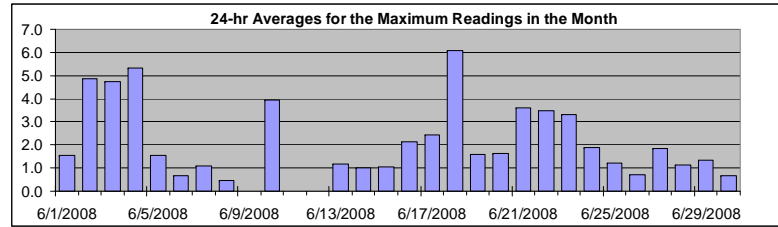
Nitric Oxide (NO)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	52.4	ppb	18-Jun	17:00 18:00
Maximum 24-hr Value:	6.1	ppb	18-Jun	

AIC Time:	30 hrs	Operational Time:	644 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	94.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	20.5	10.0	2.2	0.7	0.3	0.2	0.2	2.3 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-Jun-08	0	1	9	1	1	8	3	1	1	1	A	1	0	0	0	0	0	0	0	0	0	1	5	1.5	8.7	
2-Jun-08	4	2	13	36	12	10	10	4	3	A	2	0	0	2	0	2	1	1	0	1	4	2	2	0	4.9	36.0
3-Jun-08	0	38	13	8	2	8	5	1	A	0	0	9	2	1	2	0	3	1	6	6	1	0	0	1	4.7	38.3
4-Jun-08	0	1	2	27	31	5	7	A	3	3	0	0	0	1	0	1	1	3	3	3	7	7	15	1	5.3	30.7
5-Jun-08	4	1	0	1	1	6	A	2	2	1	1	3	0	1	0	0	0	0	0	0	0	4	5	1	1.5	6.4
6-Jun-08	1	1	0	0	0	A	2	2	1	1	1	1	1	1	1	0	1	1	1	0	0	0	0	1	0.7	1.6
7-Jun-08	1	1	0	0	A	1	1	2	1	1	0	0	0	0	0	0	0	0	4	0	0	6	3	1	1.1	6.4
8-Jun-08	0	0	0	A	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	0.5	1.1
9-Jun-08	0	0	A	0	2	2	16	1	2	5	3	12	9	P	P	P	P	P	P	P	P	P	P	P	N	16.1
10-Jun-08	P	P	P	P	P	14	3	5	1	1	0	1	1	0	1	1	1	1	0	0	2	16	14	14	3.9	16.3
11-Jun-08	A	5	4	4	9	19	10	6	4	2	1	1	P	P	P	P	P	P	P	P	P	P	P	P	N	18.9
12-Jun-08	P	P	P	P	P	P	P	P	P	P	P	C	C	C	A	2	2	0	1	1	0	0	0	1	N	2.2
13-Jun-08	0	1	0	A	0	0	0	3	1	1	1	0	3	0	7	0	0	1	1	4	1	1	1	0	1.2	6.9
14-Jun-08	0	0	1	A	1	4	1	1	2	1	2	1	0	0	1	0	0	0	0	0	0	0	1	3	1.0	3.8
15-Jun-08	1	2	A	3	1	2	1	1	1	1	1	0	1	0	0	0	0	0	0	4	1	1	1	3	1.0	3.7
16-Jun-08	5	A	1	1	1	1	2	2	1	0	0	0	5	0	0	1	8	3	4	0	2	6	5	1	2.1	7.9
17-Jun-08	A	1	2	1	2	4	4	2	2	1	1	0	1	0	1	C	C	C	C	1	1	12	5	4	2.4	12.1
18-Jun-08	3	4	5	A	7	10	5	2	0	0	0	0	4	3	0	0	0	52	10	5	3	19	0	4	6.1	52.4
19-Jun-08	0	0	A	1	1	1	0	3	3	0	0	0	1	0	0	1	0	1	0	0	16	3	2	1	1.6	16.0
20-Jun-08	3	A	0	0	0	2	5	5	1	0	1	0	4	1	0	2	2	1	5	0	0	1	1	1	1.6	5.3
21-Jun-08	A	1	6	3	11	8	12	12	3	2	0	0	0	0	0	0	0	1	1	1	1	8	8	A	3.6	12.4
22-Jun-08	10	16	23	11	5	5	1	0	0	0	1	0	1	1	0	0	0	2	0	0	0	0	A	0	3.5	22.8
23-Jun-08	0	0	0	10	0	1	1	5	0	13	4	2	3	3	1	2	2	10	6	6	2	A	3	2	3.3	12.7
24-Jun-08	0	0	2	0	1	1	2	4	15	1	0	0	1	0	1	5	2	2	0	0	A	3	0	0	1.9	14.9
25-Jun-08	0	0	0	0	0	1	3	4	1	0	3	0	5	2	2	2	1	0	1	A	1	0	0	0	1.2	5.1
26-Jun-08	1	0	0	0	0	0	1	5	1	0	0	0	0	1	0	0	1	2	A	0	0	1	1	0	0.7	4.9
27-Jun-08	0	0	0	0	0	1	1	0	22	4	0	0	0	0	0	0	7	A	0	0	0	4	0	0	1.8	21.6
28-Jun-08	2	0	0	1	2	1	1	1	0	1	0	1	0	0	0	0	A	3	0	3	3	2	1	2	1.1	3.2
29-Jun-08	1	3	2	4	2	1	1	3	1	0	0	1	0	1	2	A	0	0	0	3	4	1	1	0	1.4	4.2
30-Jun-08	1	0	0	0	0	1	2	2	1	0	0	0	0	0	A	0	0	0	0	0	0	0	1	2	0.7	2.3
Hourly Avg	1.6	3.0	3.5	4.8	3.5	4.1	3.6	2.9	2.5	1.5	0.9	1.3	1.6	0.8	0.9	0.9	1.3	3.4	1.8	1.5	1.9	3.8	2.7	1.9		
Hourly Max	10.0	38.3	22.8	36.0	30.7	18.9	16.1	12.4	21.6	12.7	4.3	12.1	8.9	3.0	6.9	4.7	7.9	52.4	9.7	6.1	16.0	18.9	14.5	13.9		

PASZA - Portable-Spirit River Oxides of Nitrogen Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

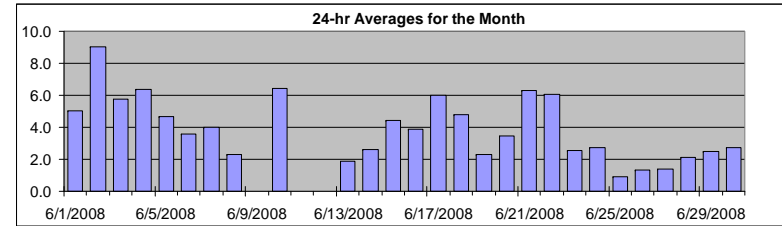
HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Maximum 1-hr Average:	31.7	ppb	2-Jun	3:00 4:00
Maximum 24-hr Average:	9.0	ppb	2-Jun	



AIC Time:	30 hrs	Operational Time:	644 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	94.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	18.7	13.2	4.9	2.3	1.2	0.5	0.3	3.9 ppb	2.3 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
1-Jun-08	5	8	13	9	9	14	8	5	4	2	A	2	1	1	1	1	1	1	1	1	1	2	4	9	12	5.0	13.5
2-Jun-08	13	12	19	32	19	20	17	11	8	A	5	2	1	1	1	1	1	1	1	1	2	7	16	9	8	9.0	31.7
3-Jun-08	6	19	16	14	11	19	9	4	A	2	1	3	2	1	1	1	1	1	3	4	3	3	4	4	4	5.7	18.7
4-Jun-08	9	10	11	19	22	12	13	A	7	3	2	2	2	2	2	1	2	1	2	2	5	6	4	6	6	6.4	22.5
5-Jun-08	11	7	6	7	5	13	A	9	6	4	2	1	1	1	1	1	1	1	2	2	2	4	7	10	5	4.7	12.9
6-Jun-08	6	5	4	4	3	A	5	4	3	3	3	3	2	2	2	2	2	3	3	4	4	3	5	7	7	3.6	7.0
7-Jun-08	6	7	5	5	A	7	5	4	4	2	2	1	1	2	1	1	1	1	3	3	4	11	10	6	6	4.0	10.9
8-Jun-08	4	4	5	A	4	4	3	1	1	1	0	0	0	0	0	1	1	0	1	1	1	6	8	8	8	2.3	7.9
9-Jun-08	6	6	A	6	6	5	3	3	4	2	2	3	3	P	P	P	P	P	P	P	P	P	P	P	P	N	6.4
10-Jun-08	P	P	P	P	P	21	9	7	4	4	2	2	2	2	2	2	2	2	2	2	2	9	17	17	15	6.4	21.4
11-Jun-08	A	13	11	11	11	17	14	8	5	3	2	2	P	P	P	P	P	P	P	P	P	P	P	P	P	N	17.1
12-Jun-08	P	P	P	P	P	P	P	P	P	P	P	C	C	C	A	2	1	2	2	1	2	3	4	5	5	N	4.5
13-Jun-08	3	4	4	A	3	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	4	3	4	3	1.9	4.4
14-Jun-08	3	4	4	A	5	4	2	2	2	2	2	1	1	1	1	1	1	1	1	2	3	3	4	9	9	2.6	9.4
15-Jun-08	10	9	A	13	10	7	6	4	2	2	2	1	1	1	1	1	1	1	1	3	4	5	7	8	8	4.4	12.9
16-Jun-08	8	A	5	4	3	3	2	2	2	2	1	1	1	1	1	1	1	2	1	3	2	6	16	13	9	3.9	15.7
17-Jun-08	A	12	12	7	6	11	9	5	5	3	2	2	1	1	2	C	C	C	C	2	4	9	11	11	11	6.0	12.0
18-Jun-08	11	10	10	A	16	13	6	4	2	1	1	2	1	1	1	1	1	6	4	3	5	3	3	3	3	4.8	16.2
19-Jun-08	3	2	A	3	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	1	1	4	6	10	8	2.3	9.7
20-Jun-08	7	A	6	5	5	6	9	7	2	1	1	1	1	1	1	1	1	1	1	2	1	3	6	7	7	3.5	8.7
21-Jun-08	A	7	9	12	13	13	12	12	5	3	2	2	1	1	1	1	0	1	2	3	4	7	15	14	A	6.3	15.2
22-Jun-08	16	18	24	17	13	15	6	3	2	3	3	2	2	2	2	1	1	1	1	1	1	1	2	A	5	6.1	24.5
23-Jun-08	4	4	3	3	3	2	2	1	1	2	1	1	2	1	0	0	1	3	4	2	4	A	9	7	7	2.6	9.4
24-Jun-08	6	6	5	6	4	4	4	4	2	4	1	1	0	0	0	1	1	1	1	1	A	5	4	3	3	2.7	5.8
25-Jun-08	2	1	1	2	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	A	2	2	2	1	0.9	2.0
26-Jun-08	2	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	A	2	3	4	4	3	1.3	4.4
27-Jun-08	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	A	2	2	5	3	3	3	1.4	5.2
28-Jun-08	3	3	3	3	3	3	3	2	1	1	1	1	1	1	1	1	1	A	2	1	4	3	3	4	3	2.1	3.6
29-Jun-08	3	3	3	4	3	5	3	3	1	1	1	1	1	1	1	1	A	2	1	1	2	3	5	6	5	2.5	5.6
30-Jun-08	5	5	3	4	4	4	4	4	3	2	2	2	1	1	A	2	1	1	1	1	1	3	4	3	5	2.7	4.8
Hourly Avg	6.1	6.9	7.4	7.9	6.9	8.2	5.8	4.0	2.9	1.9	1.6	1.4	1.3	1.0	0.9	1.0	1.1	1.5	1.8	2.1	3.8	6.4	7.0	6.2			
Hourly Max	16.5	18.7	24.5	31.7	22.5	21.4	17.5	12.3	7.6	4.0	5.0	3.1	3.4	2.1	2.0	2.0	2.2	5.6	4.1	4.4	9.0	16.7	17.1	14.7			

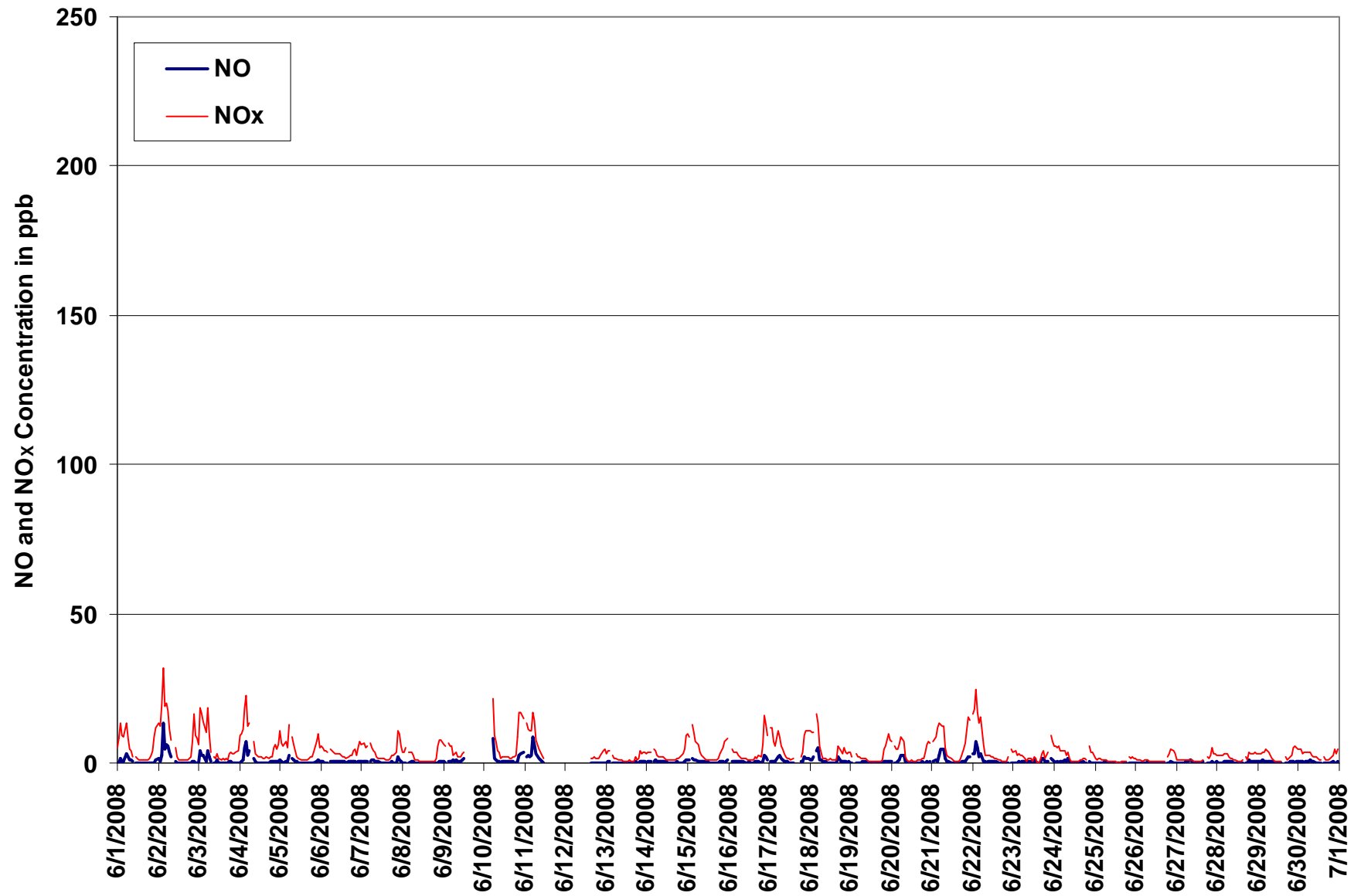


Figure 50. PASZA - Portable-Spirit River Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

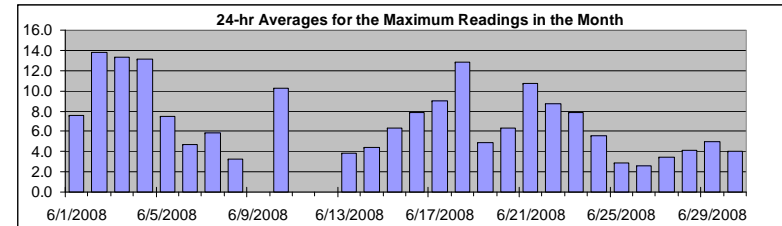
Oxides of Nitrogen (NO_x)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	81.3	ppb	18-Jun	17:00 18:00
Maximum 24-hr Value:	13.8	ppb	2-Jun	

AIC Time:	30 hrs	Operational Time:	644 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	94.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	33.3	22.7	8.6	4.3	2.1	1.0	0.7	7.1 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

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum	
1-Jun-08	6	12	26	11	11	20	13	5	5	3	A	4	2	1	1	2	1	2	3	5	13	22	7.6	25.8		
2-Jun-08	20	19	32	53	26	23	24	14	10	A	8	3	1	3	2	6	3	3	2	3	13	25	12	12	13.8	53.0
3-Jun-08	9	61	30	23	12	24	18	5	A	3	2	35	6	4	9	1	7	5	17	12	4	4	6	9	13.3	61.2
4-Jun-08	12	12	13	46	49	16	19	A	13	11	3	3	3	4	3	2	6	8	8	6	18	17	23	8	13.1	48.9
5-Jun-08	17	8	7	9	7	19	A	11	8	6	3	7	1	2	1	2	1	2	3	3	5	21	21	7	7.5	21.3
6-Jun-08	8	7	5	5	4	A	7	5	3	4	3	4	4	3	3	2	3	4	3	5	7	3	7	8	4.7	8.4
7-Jun-08	8	9	7	7	A	8	7	6	4	3	2	2	2	2	2	1	1	3	11	4	5	19	14	9	5.9	18.8
8-Jun-08	5	5	7	A	6	5	3	2	2	2	1	1	1	1	1	1	1	1	1	1	2	8	9	9	3.3	9.4
9-Jun-08	7	6	A	8	8	7	13	5	5	11	10	27	22	P	P	P	P	P	P	P	P	P	P	P	N	27.4
10-Jun-08	P	P	P	P	P	28	13	12	6	5	2	3	3	3	3	2	2	3	3	3	17	34	29	25	10.3	33.9
11-Jun-08	A	17	13	14	17	27	19	13	10	5	3	3	P	P	P	P	P	P	P	P	P	P	P	P	N	27.2
12-Jun-08	P	P	P	P	P	P	P	P	P	P	P	C	C	C	A	5	4	3	3	2	3	4	6	7	N	6.6
13-Jun-08	4	6	7	A	4	2	2	5	2	4	2	1	4	1	10	1	1	3	2	6	7	4	4	5	3.8	10.4
14-Jun-08	4	4	5	A	5	10	4	2	3	3	5	2	2	2	4	2	2	2	2	2	6	5	9	16	4.4	16.0
15-Jun-08	13	11	A	17	12	12	8	5	3	3	2	2	2	2	2	2	2	2	2	8	7	7	8	15	6.3	16.7
16-Jun-08	17	A	8	4	4	4	4	4	2	2	2	2	7	1	1	3	26	8	12	3	14	21	19	11	7.8	26.0
17-Jun-08	A	15	16	10	8	14	12	6	6	4	3	2	4	2	4	C	C	C	C	3	7	22	15	18	9.0	22.5
18-Jun-08	15	14	15	A	21	20	10	7	2	2	2	1	8	4	2	2	2	81	26	11	14	21	4	10	12.8	81.3
19-Jun-08	4	3	A	5	3	3	2	4	6	2	1	1	3	1	1	2	1	1	1	2	30	14	14	10	4.9	30.4
20-Jun-08	11	A	7	7	6	10	13	13	3	1	2	1	8	2	1	4	5	2	8	2	5	13	10	10	6.4	13.3
21-Jun-08	A	10	21	19	22	15	24	24	9	5	3	2	2	2	1	1	1	3	5	7	10	30	21	A	10.7	30.1
22-Jun-08	25	28	32	23	18	19	8	4	4	4	4	2	3	5	2	1	2	2	1	1	1	5	A	6	8.7	32.5
23-Jun-08	4	6	4	14	3	3	3	10	1	24	8	5	9	5	2	2	5	19	12	16	8	A	12	9	7.9	24.3
24-Jun-08	6	6	8	7	6	4	6	7	20	3	1	1	3	1	3	10	3	6	2	1	A	12	6	4	5.5	19.7
25-Jun-08	3	1	2	2	1	3	7	8	1	1	4	1	7	3	2	3	2	1	2	A	4	2	4	3	2.9	7.6
26-Jun-08	3	1	2	1	1	1	2	10	2	1	1	1	1	4	1	1	1	4	A	4	5	7	6	4	2.6	9.6
27-Jun-08	1	1	1	1	1	2	3	1	8	9	1	1	1	1	1	1	16	A	3	2	4	12	5	4	3.5	15.6
28-Jun-08	5	3	3	3	7	4	4	3	2	2	1	2	1	1	1	2	A	10	2	9	8	10	6	6	4.1	10.4
29-Jun-08	4	9	7	11	9	6	5	5	2	1	1	1	1	2	3	A	3	1	2	7	10	7	7	7	4.9	10.7
30-Jun-08	7	10	4	4	4	4	5	6	3	2	2	2	2	1	A	3	2	2	1	3	4	6	7	8	4.0	9.8
Hourly Avg	8.7	11.0	11.2	12.6	10.2	11.2	9.3	7.2	5.2	4.4	3.0	4.2	3.9	2.3	2.5	2.5	3.9	6.9	5.3	4.8	8.2	12.6	11.0	9.6		
Hourly Max	25.4	61.2	32.5	53.0	48.9	28.0	24.3	24.1	19.7	24.3	10.3	35.3	21.9	5.1	10.4	10.0	26.0	81.3	26.1	15.9	30.4	33.9	29.3	24.7		

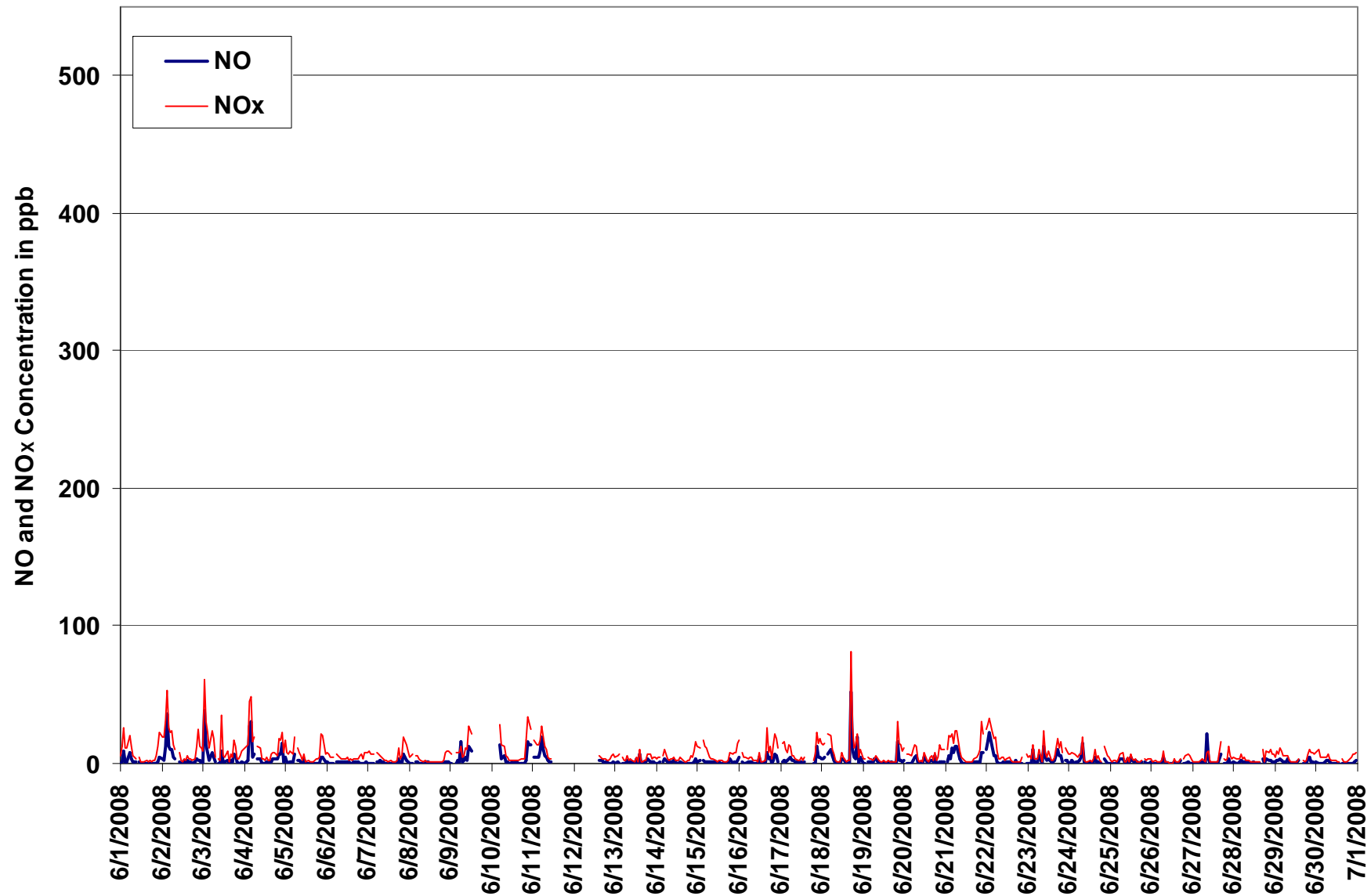


Figure 51. PASZA - Portable-Spirit River Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Portable-Spirit River Ozone Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

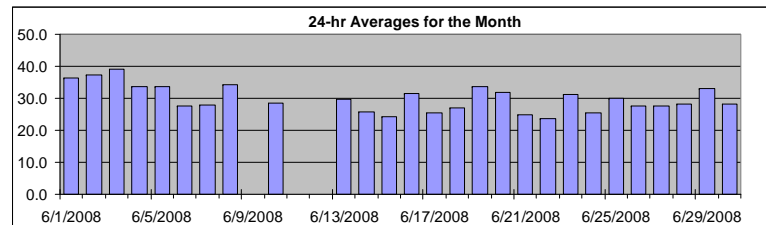
HOURLY AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Number of 1-hr Exceedances:		0			
Maximum 1-hr Average:	61.1 ppb	3-Jun	15:00	16:00	
Maximum 24-hr Average:	39.1 ppb	3-Jun			



AIC Time:	30 hrs	Operational Time:	647 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	94.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	60.1	49.1	36.9	29.6	23.0	10.6	5.7	29.9 ppb	29.6 ppb

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jun-08	27	19	11	15	17	9	19	30	33	45	A	50	52	52	52	52	53	56	57	55	42	35	29	26	36.4	56.8	
2-Jun-08	20	17	11	3	8	8	16	25	31	A	48	58	59	60	60	60	61	60	60	56	42	26	31	34	37.2	60.6	
3-Jun-08	38	23	17	16	19	12	27	34	A	41	44	48	50	53	58	61	60	59	40	36	40	41	40	40	39.1	61.1	
4-Jun-08	26	21	16	11	6	10	12	A	33	49	55	52	49	49	44	48	51	48	43	38	32	28	29	25	33.8	55.2	
5-Jun-08	17	24	25	21	26	14	A	23	29	34	42	46	45	49	50	50	50	49	40	36	34	28	19	24	33.7	50.4	
6-Jun-08	22	20	27	31	31	A	28	28	29	29	29	28	29	30	31	32	30	33	31	26	26	29	22	16	27.7	33.0	
7-Jun-08	16	17	17	18	A	19	22	26	29	35	37	37	38	37	40	41	43	38	32	30	26	14	13	20	27.9	42.7	
8-Jun-08	26	26	24	A	31	26	29	36	37	39	41	41	42	42	42	42	40	41	40	39	36	27	18	19	34.1	42.5	
9-Jun-08	23	23	A	23	23	23	33	35	32	38	40	40	41	P	P	P	P	P	P	P	P	P	P	P	N	40.9	
10-Jun-08	P	P	P	P	P	6	16	19	25	28	34	31	33	36	39	41	48	42	41	42	25	13	12	11	28.5	47.6	
11-Jun-08	A	7	7	7	8	5	9	18	26	32	38	40	P	P	P	P	P	P	P	P	P	P	P	P	N	40.4	
12-Jun-08	P	P	P	P	P	P	P	P	P	P	41	44	43	C	C	C	A	46	44	40	40	38	31	28	N	46.2	
13-Jun-08	30	25	25	A	35	34	34	34	33	32	32	32	33	33	32	33	34	30	31	35	22	18	18	19	29.7	34.9	
14-Jun-08	19	15	14	A	13	15	21	25	25	25	26	28	30	33	36	38	37	36	36	34	32	25	21	11	25.9	37.7	
15-Jun-08	10	11	A	7	8	13	16	23	27	28	29	31	31	33	36	37	36	36	36	30	26	22	17	16	24.2	36.9	
16-Jun-08	15	A	16	16	18	21	28	32	34	37	39	40	42	43	44	46	45	44	42	41	32	16	15	17	31.4	45.8	
17-Jun-08	A	16	16	19	20	13	17	21	27	30	34	37	38	35	33	40	37	38	C	C	29	19	10	8	25.5	39.9	
18-Jun-08	8	9	8	A	3	8	21	30	34	35	37	38	37	39	40	39	41	33	31	31	26	28	25	23	27.1	40.8	
19-Jun-08	22	24	A	26	27	26	28	29	30	34	35	37	39	41	44	45	46	46	45	43	35	33	21	18	33.7	46.5	
20-Jun-08	18	A	23	24	23	20	19	24	33	37	38	39	39	40	41	42	43	44	43	41	32	28	25	21	32.0	44.2	
21-Jun-08	A	18	15	10	9	8	13	16	25	31	33	36	37	38	39	39	39	36	31	27	22	14	12	A	24.9	39.1	
22-Jun-08	9	6	3	6	5	5	17	26	28	24	23	28	30	28	30	37	36	37	36	35	35	33	A	28	23.7	37.4	
23-Jun-08	29	27	29	28	28	28	29	34	35	36	40	42	43	42	41	35	34	33	32	28	21	A	11	13	31.2	42.6	
24-Jun-08	15	15	16	15	16	16	17	24	25	30	32	32	33	34	33	31	31	31	28	31	A	27	26	24	25.3	34.1	
25-Jun-08	28	30	28	26	27	27	28	29	29	30	32	34	35	35	35	34	31	29	30	A	28	27	27	28	29.9	35.0	
26-Jun-08	27	30	30	32	31	30	30	29	28	28	28	28	28	29	27	28	26	25	25	A	30	29	21	23	21	27.6	31.5
27-Jun-08	22	23	24	24	25	25	25	25	26	27	28	29	29	28	29	33	35	A	37	34	30	24	26	26	27.6	37.2	
28-Jun-08	28	27	25	24	20	22	21	25	25	26	27	29	28	32	33	32	A	35	36	37	31	30	29	28	28.3	37.2	
29-Jun-08	25	26	31	31	28	20	22	28	35	40	42	45	46	46	45	A	43	40	38	36	32	22	21	20	33.1	46.0	
30-Jun-08	19	17	18	17	18	18	22	25	33	37	40	41	41	39	A	39	36	34	33	30	25	23	22	19	28.1	41.0	
Hourly Avg	21.5	19.8	19.0	18.8	19.3	17.2	22.2	26.8	29.8	33.5	36.0	38.1	38.6	39.1	39.8	40.5	41.0	39.9	38.2	36.3	30.8	25.5	21.9	21.6			
Hourly Max	37.7	29.9	31.0	31.5	34.9	34.2	33.6	36.1	36.6	49.4	55.2	57.7	59.4	60.4	60.2	61.1	60.6	60.1	60.2	56.5	42.2	41.1	41.4	39.9			

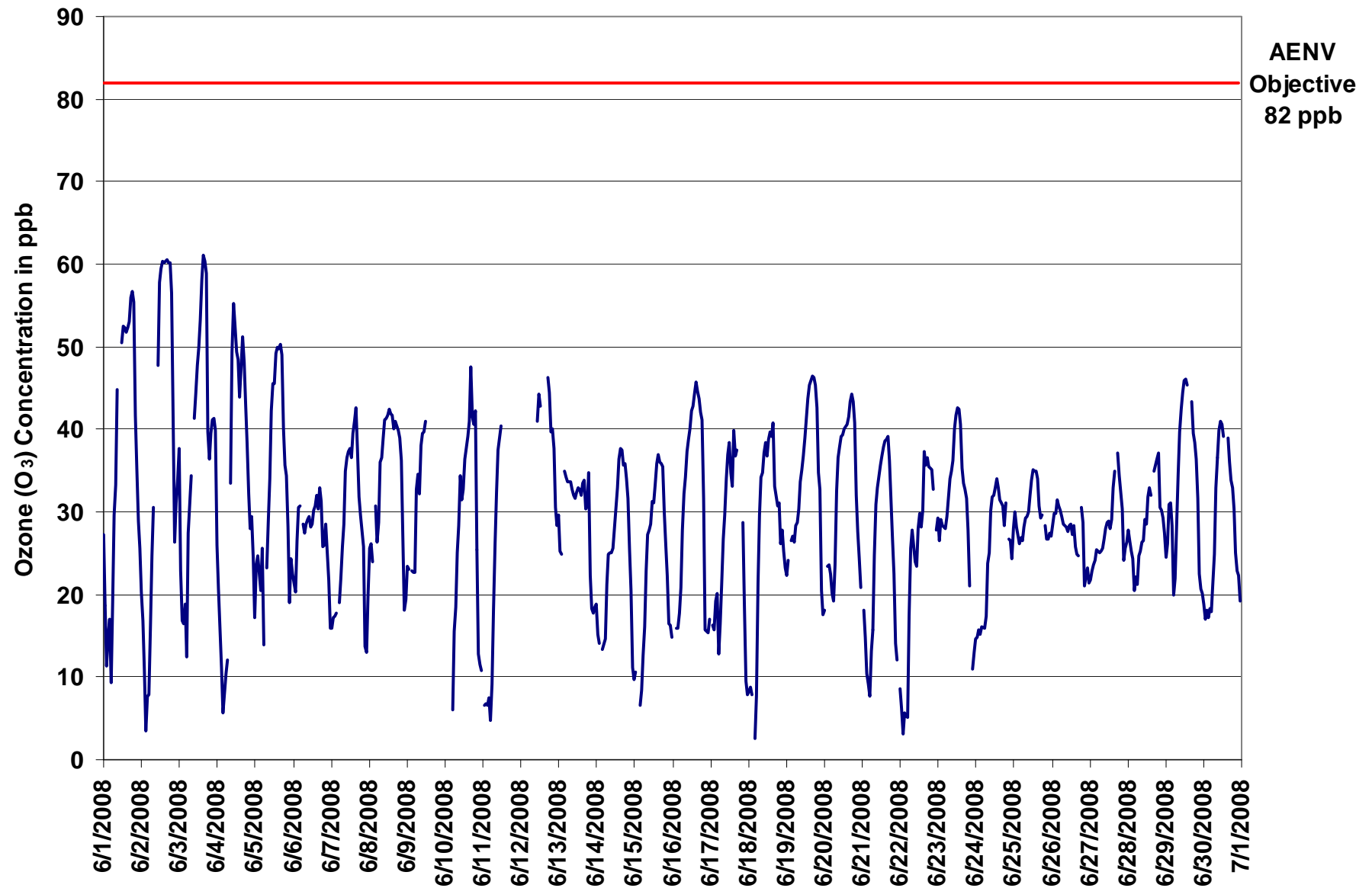


Figure 52. PASZA - Portable-Spirit River Ozone 1-hr Average Monthly Trend

Station: Portable-Spirit River
 Station Owner: PASZA

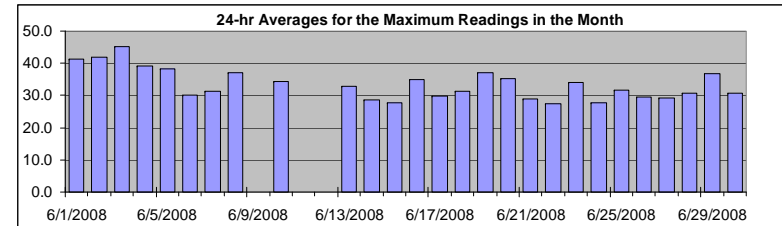
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	64.0	ppb	1-Jun	18:00 19:00
Maximum 24-hr Value:	45.2	ppb	3-Jun	



AIC Time:	30 hrs	Operational Time:	647 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	94.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	62.0	52.5	40.0	32.7	26.7	15.9	10.8	33.4 ppb	32.7 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-Jun-08	31	27	19	20	22	14	30	32	36	50	A	53	54	54	53	54	55	61	64	61	51	38	37	32	41.2	64.0
2-Jun-08	28	24	19	11	12	12	22	29	34	A	56	60	61	62	62	62	62	62	63	62	51	38	34	38	41.9	62.8
3-Jun-08	43	39	28	24	23	23	36	37	A	44	48	50	53	55	61	63	63	62	56	38	48	47	49	49	45.2	63.5
4-Jun-08	37	26	20	19	11	13	18	A	44	55	58	56	54	53	47	51	58	53	49	40	37	35	34	29	39.1	58.3
5-Jun-08	25	27	28	26	32	27	A	28	32	40	49	49	48	51	51	51	52	51	47	37	36	34	29	28	38.3	52.3
6-Jun-08	27	23	29	32	32	A	30	29	30	31	32	30	32	33	33	34	32	35	34	29	30	30	28	17	30.1	34.6
7-Jun-08	20	19	19	19	A	20	24	28	34	37	39	40	40	39	42	43	44	44	35	33	29	26	17	28	31.3	44.2
8-Jun-08	28	30	28	A	34	30	34	39	39	41	44	46	44	45	45	44	42	43	42	42	38	34	22	22	37.1	45.8
9-Jun-08	25	25	A	24	24	27	36	37	35	41	43	42	43	P	P	P	P	P	P	P	P	P	P	P	N	43.4
10-Jun-08	P	P	P	P	P	14	19	25	30	37	38	34	37	40	42	49	52	47	43	46	39	21	23	17	34.3	52.1
11-Jun-08	A	12	12	10	13	9	12	26	29	36	41	42	P	P	P	P	P	P	P	P	P	P	P	P	N	42.0
12-Jun-08	P	P	P	P	P	P	P	P	P	P	43	47	46	C	C	C	A	49	47	46	44	41	35	32	N	48.8
13-Jun-08	32	29	28	A	37	36	36	35	34	34	33	34	36	35	33	41	39	33	37	41	29	20	21	20	32.7	40.6
14-Jun-08	21	19	16	A	15	19	23	27	28	27	28	30	33	36	38	39	39	37	39	36	36	28	24	20	28.7	38.9
15-Jun-08	14	15	A	11	11	15	21	27	30	30	31	34	34	36	37	39	39	37	38	35	29	27	19	25	27.6	38.9
16-Jun-08	22	A	18	17	20	24	32	35	36	41	41	43	44	46	46	47	47	48	46	45	40	24	19	20	34.9	48.3
17-Jun-08	A	21	21	22	23	16	20	26	30	32	36	39	41	41	39	43	39	40	C	C	33	28	17	14	29.7	42.8
18-Jun-08	13	13	18	A	4	19	25	36	36	37	38	40	40	42	43	42	48	40	34	36	30	31	29	25	31.2	48.0
19-Jun-08	24	27	A	28	28	28	30	30	33	36	36	39	41	43	46	48	48	48	47	48	42	41	39	20	37.0	48.3
20-Jun-08	23	A	27	27	26	24	24	31	35	39	39	41	41	42	43	43	45	47	46	44	38	32	29	24	35.2	46.6
21-Jun-08	A	20	20	19	15	14	16	21	30	33	35	38	38	39	40	40	41	41	34	31	26	23	22	A	28.9	41.2
22-Jun-08	17	12	5	16	11	13	22	28	30	26	26	31	32	30	36	40	38	38	39	37	37	37	A	30	27.4	40.2
23-Jun-08	33	32	31	30	29	30	32	36	37	41	43	43	45	44	43	39	35	34	33	31	27	A	18	16	34.0	44.5
24-Jun-08	16	17	18	17	18	18	22	26	28	32	33	34	35	35	36	34	33	34	31	35	A	30	29	29	27.7	35.5
25-Jun-08	30	31	30	28	29	29	29	31	31	32	33	36	37	37	36	36	33	32	33	A	29	29	29	29	31.8	36.8
26-Jun-08	30	31	31	33	32	31	30	30	29	29	29	29	30	29	31	27	28	28	A	34	33	26	26	25	29.6	34.1
27-Jun-08	23	24	24	25	26	26	26	27	27	28	30	30	31	29	31	37	38	A	39	37	33	28	28	28	29.3	39.1
28-Jun-08	29	28	27	27	25	25	25	26	27	27	27	32	31	34	34	34	A	39	38	42	37	32	31	29	30.6	41.6
29-Jun-08	26	29	45	33	39	26	25	32	40	42	45	47	47	48	47	A	46	42	40	39	34	28	25	22	36.9	47.5
30-Jun-08	22	21	19	20	20	20	25	32	36	38	42	43	42	41	A	40	39	35	35	33	28	26	25	22	30.7	42.6
Hourly Avg	25.6	23.9	23.2	22.5	22.6	21.6	25.9	30.3	32.9	36.3	38.5	40.3	41.0	41.4	42.2	43.1	43.8	43.0	41.8	39.9	35.7	31.0	27.4	25.6		
Hourly Max	42.6	38.7	44.8	33.3	38.5	36.1	36.4	39.2	44.0	55.3	57.7	60.1	61.1	62.0	62.1	63.5	62.7	61.8	64.0	61.6	51.4	47.2	49.4	48.6		

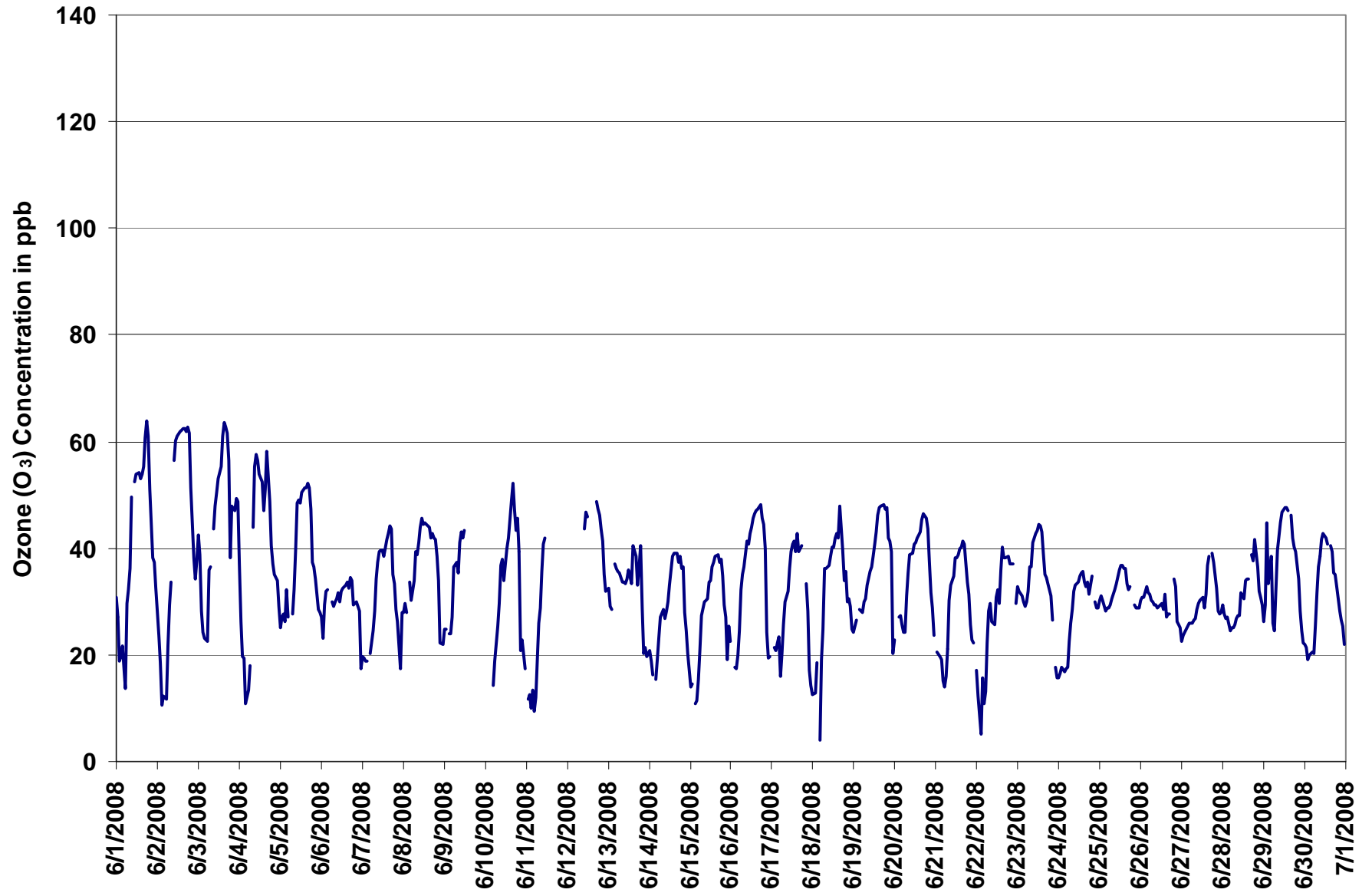
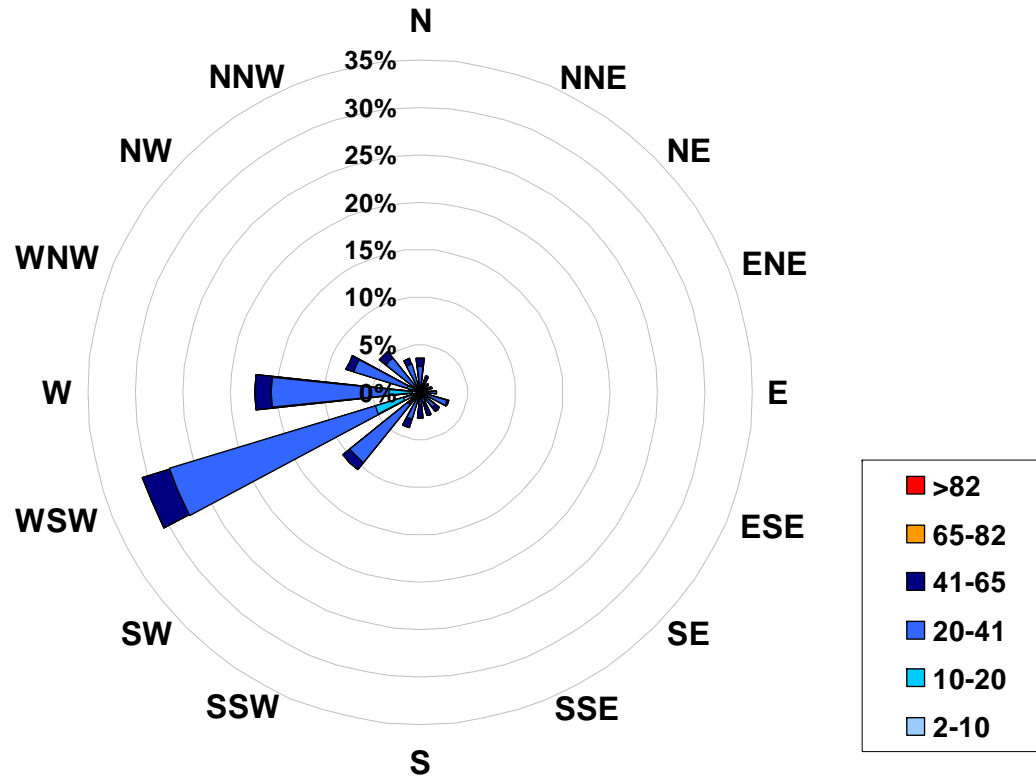


Figure 53. PASZA - Portable-Spirit River Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Portable-Spirit River Site for June 2008



Calms: 0%

Frequency Distribution of O ₃ in ppb			
Range		Frequency (hrs)	
2.0	< 10	30	
10	to 20	91	
20	to 41	431	
41	to 65	95	
65	to 82	0	
	> 82	0	
Total Non-Zero Values			647

PASZA - Portable-Spirit River Ozone Eight Hour Average Summary

Station: Portable-Spirit River
 Station Owner: PASZA

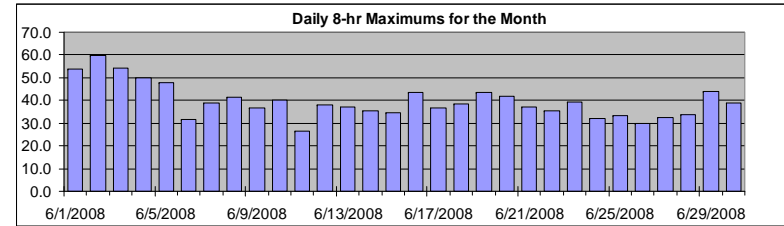
EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O₃)

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	59.9 ppb 2-Jun 18:00 19:00



Percentile	99	95	75	50	25	5	1
	53.7	46.5	34.6	29.4	24.1	14.6	8.7

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-Jun-08	34	31	26	23	21	19	18	18	19	22	24	29	34	40	45	48	51	53	53	54	52	50	47	44	53.7
2-Jun-08	40	35	29	23	19	15	14	13	15	14	20	27	35	42	49	54	58	58	60	60	58	53	50	46	59.9
3-Jun-08	44	39	33	28	26	24	23	23	21	24	28	32	37	43	47	51	52	54	54	52	51	49	47	45	54.2
4-Jun-08	40	36	33	29	25	21	18	15	16	20	25	31	38	43	47	47	50	50	48	46	44	42	40	37	49.7
5-Jun-08	33	30	27	25	24	22	21	21	23	24	27	31	33	38	40	43	46	48	47	46	45	42	38	35	47.7
6-Jun-08	32	28	26	26	25	25	26	27	28	29	29	29	29	29	29	30	30	30	31	30	30	30	29	27	31.6
7-Jun-08	25	23	21	20	19	18	18	19	21	24	26	29	30	32	35	37	38	39	38	37	36	33	29	27	38.6
8-Jun-08	25	23	22	21	22	24	26	28	30	32	34	35	36	38	40	41	41	41	41	41	40	38	35	33	41.4
9-Jun-08	31	28	27	24	22	22	24	26	27	29	31	33	35	37	N	N	N	N	N	N	N	N	N	N	36.8
10-Jun-08	N	N	N	N	N	N	N	N	N	N	N	23	24	28	31	34	36	38	39	40	39	36	33	29	40.2
11-Jun-08	26	21	17	11	9	8	7	9	11	14	18	22	24	N	N	N	N	N	N	N	N	N	N	N	26.4
12-Jun-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	38	38.1
13-Jun-08	37	34	32	31	30	30	30	31	31	32	33	33	33	33	33	32	33	32	32	33	31	29	28	26	37.1
14-Jun-08	24	22	20	18	17	16	17	17	18	20	21	22	24	27	29	30	32	33	34	35	35	34	32	29	35.2
15-Jun-08	25	22	20	16	13	11	11	12	15	17	19	22	25	27	30	31	33	34	34	34	34	32	30	27	34.5
16-Jun-08	25	23	20	18	17	17	18	21	24	25	28	31	34	37	39	41	42	43	43	43	42	39	35	31	43.3
17-Jun-08	30	26	22	19	17	17	17	17	19	20	23	25	27	30	32	34	35	36	37	N	N	N	N	N	36.8
18-Jun-08	N	N	13	13	9	8	9	12	16	20	24	26	30	34	36	37	38	38	37	36	35	34	32	30	38.2
19-Jun-08	27	26	26	25	25	25	25	26	27	29	30	31	32	34	36	38	40	42	43	44	43	42	39	36	43.7
20-Jun-08	32	30	27	24	23	21	21	22	24	25	27	29	31	34	36	38	40	41	41	42	41	39	37	35	41.7
21-Jun-08	33	30	26	21	18	15	13	13	14	16	18	21	25	28	32	35	36	37	37	36	34	31	28	26	37.0
22-Jun-08	22	17	13	10	8	7	7	10	12	14	17	20	23	26	27	29	30	31	33	34	34	35	36	34	35.5
23-Jun-08	33	32	31	30	29	28	28	29	30	31	32	34	36	38	39	39	39	39	38	36	33	32	28	24	39.2
24-Jun-08	22	19	17	15	14	15	15	17	18	20	22	24	26	28	30	31	32	32	32	32	31	30	29	28	32.1
25-Jun-08	28	28	28	27	27	27	27	28	28	28	29	30	31	32	32	33	33	33	33	33	32	31	29	28	33.2
26-Jun-08	28	28	28	28	29	29	30	30	30	30	29	29	29	28	28	28	27	27	27	27	27	26	26	25	29.8
27-Jun-08	24	24	24	23	23	23	24	24	25	25	26	26	27	27	28	28	30	30	31	32	32	32	31	30	32.4
28-Jun-08	29	29	28	26	25	25	24	24	24	24	24	24	25	27	28	29	30	31	32	33	34	33	33	32	33.7
29-Jun-08	31	30	30	29	28	27	26	26	28	29	31	32	35	38	41	43	44	44	43	42	40	37	33	32	43.9
30-Jun-08	29	26	23	21	19	18	19	19	21	23	26	29	32	35	36	38	39	38	38	36	34	31	30	28	38.9

Hourly Max 43.5 38.9 33.4 30.9 30.2 29.7 30.2 30.9 31.3 32.3 34.1 35.0 37.5 42.9 48.7 53.8 58.0 58.3 59.9 59.7 57.6 53.3 49.7 46.4

PASZA - Portable-Spirit River Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

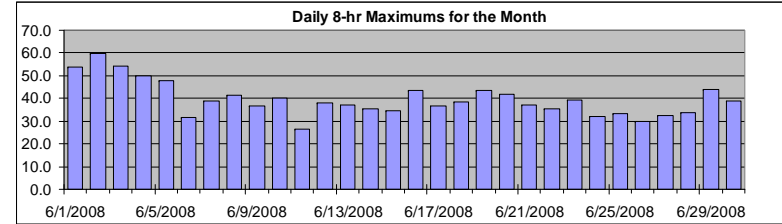
Ozone (O₃)

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	59.9 ppb 2-Jun 18:00 19:00

Percentile	99	95	75	50	25	5	1
	53.7	46.5	34.6	29.4	24.1	14.6	8.7



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

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-Jun-08	34	31	26	23	21	19	18	18	19	22	24	29	34	40	45	48	51	53	53	54	52	50	47	44	53.7
2-Jun-08	40	35	29	23	19	15	14	13	15	14	20	27	35	42	49	54	58	58	60	60	58	53	50	46	59.9
3-Jun-08	44	39	33	28	26	24	23	23	21	24	28	32	37	43	47	51	52	54	54	52	51	49	47	45	54.2
4-Jun-08	40	36	33	29	25	21	18	15	16	20	25	31	38	43	47	47	50	50	48	46	44	42	40	37	49.7
5-Jun-08	33	30	27	25	24	22	21	21	23	24	27	31	33	38	40	43	46	48	47	46	45	42	38	35	47.7
6-Jun-08	32	28	26	26	25	25	26	27	28	29	29	29	29	29	29	30	30	30	31	30	30	30	29	27	31.6
7-Jun-08	25	23	21	20	19	18	18	19	21	24	26	29	30	32	35	37	38	39	38	37	36	33	29	27	38.6
8-Jun-08	25	23	22	21	22	24	26	28	30	32	34	35	36	38	40	41	41	41	41	41	40	38	35	33	41.4
9-Jun-08	31	28	27	24	22	22	24	26	27	29	31	33	35	37	N	N	N	N	N	N	N	N	N	N	36.8
10-Jun-08	N	N	N	N	N	N	N	N	N	N	N	23	24	28	31	34	36	38	39	40	39	36	33	29	40.2
11-Jun-08	26	21	17	11	9	8	7	9	11	14	18	22	24	N	N	N	N	N	N	N	N	N	N	N	26.4
12-Jun-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	38	38.1
13-Jun-08	37	34	32	31	30	30	30	31	31	32	33	33	33	33	33	32	33	32	32	33	31	29	28	26	37.1
14-Jun-08	24	22	20	18	17	16	17	17	18	20	21	22	24	27	29	30	32	33	34	35	35	34	32	29	35.2
15-Jun-08	25	22	20	16	13	11	11	12	15	17	19	22	25	27	30	31	33	34	34	34	34	32	30	27	34.5
16-Jun-08	25	23	20	18	17	17	18	21	24	25	28	31	34	37	39	41	42	43	43	43	42	39	35	31	43.3
17-Jun-08	30	26	22	19	17	17	17	17	19	20	23	25	27	30	32	34	35	36	37	N	N	N	N	N	36.8
18-Jun-08	N	N	13	13	9	8	9	12	16	20	24	26	30	34	36	37	38	38	37	36	35	34	32	30	38.2
19-Jun-08	27	26	26	25	25	25	25	26	27	29	30	31	32	34	36	38	40	42	43	44	43	42	39	36	43.7
20-Jun-08	32	30	27	24	23	21	21	22	24	25	27	29	31	34	36	38	40	41	41	42	41	39	37	35	41.7
21-Jun-08	33	30	26	21	18	15	13	13	14	16	18	21	25	28	32	35	36	37	37	36	34	31	28	26	37.0
22-Jun-08	22	17	13	10	8	7	7	10	12	14	17	20	23	26	27	29	30	31	33	34	34	35	36	34	35.5
23-Jun-08	33	32	31	30	29	28	28	29	30	31	32	34	36	38	39	39	39	39	38	36	33	32	28	24	39.2
24-Jun-08	22	19	17	15	14	15	15	17	18	20	22	24	26	28	30	31	32	32	32	32	31	30	29	28	32.1
25-Jun-08	28	28	28	27	27	27	27	28	28	28	29	30	31	32	32	33	33	33	33	33	32	31	29	28	33.2
26-Jun-08	28	28	28	28	29	29	30	30	30	30	29	29	29	28	28	28	27	27	27	27	27	26	26	25	29.8
27-Jun-08	24	24	24	23	23	23	24	24	25	25	26	26	27	27	28	28	30	30	31	32	32	32	31	30	32.4
28-Jun-08	29	29	28	26	25	25	24	24	24	24	24	24	25	27	28	29	30	31	32	33	34	33	33	32	33.7
29-Jun-08	31	30	30	29	28	27	26	26	28	29	31	32	35	38	41	43	44	44	43	42	40	37	33	32	43.9
30-Jun-08	29	26	23	21	19	18	19	19	21	23	26	29	32	35	36	38	39	38	38	36	34	31	30	28	38.9

Hourly Max 43.5 38.9 33.4 30.9 30.2 29.7 30.2 30.9 31.3 32.3 34.1 35.0 37.5 42.9 48.7 53.8 58.0 58.3 59.9 59.7 57.6 53.3 49.7 46.4

PASZA - Portable-Spirit River Relative Humidity Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

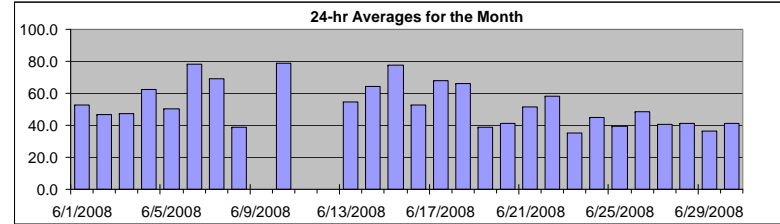
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:					94.8	%	4-Jun	5:00 6:00
Maximum 24-hr Value:					79.0	%	10-Jun	



AIC Time:	0 hrs	Operational Time:	682 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	94.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	92.5	87.6	66.1	51.1	34.9	23.8	19.5	52.3 %	51.1 %

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Jun-08	65	66	71	78	76	81	76	67	60	54	45	40	38	35	33	33	31	28	27	28	48	58	63	69	52.9	80.8
2-Jun-08	74	76	80	86	92	90	82	73	63	52	38	27	22	19	20	20	19	20	21	21	25	31	37	40	46.9	91.6
3-Jun-08	41	48	56	59	61	62	56	50	43	37	34	32	31	30	25	21	20	23	53	63	63	72	79	77	47.3	78.6
4-Jun-08	87	89	91	91	94	95	93	90	78	62	55	45	45	45	44	41	38	32	32	38	43	49	58	61	62.3	94.8
5-Jun-08	60	53	56	59	54	58	61	56	49	45	38	40	41	37	34	36	33	36	49	59	56	58	64	68	50.0	68.0
6-Jun-08	77	80	73	69	70	70	76	78	75	73	80	83	80	77	74	73	86	85	84	84	80	77	83	90	78.2	89.7
7-Jun-08	89	88	88	88	89	88	85	81	78	69	63	61	58	58	53	49	43	49	63	58	57	67	72	66	69.1	89.4
8-Jun-08	59	60	62	57	57	61	55	42	42	33	29	29	27	25	25	25	23	23	23	25	32	43	47	38.7	62.2	
9-Jun-08	47	49	49	49	50	49	37	35	36	29	25	22	20	P	P	P	P	P	P	P	P	P	P	P	N	50.5
10-Jun-08	P	P	P	P	P	85	81	83	77	79	78	80	77	71	81	75	65	70	76	76	82	86	88	90	79.0	90.3
11-Jun-08	86	92	90	93	93	92	88	76	65	56	51	42	P	P	P	P	P	P	P	P	P	P	P	P	N	93.3
12-Jun-08	P	P	P	P	P	P	P	P	P	P	37	35	30	26	24	22	23	25	32	34	39	43	50	54	N	54.4
13-Jun-08	58	65	69	66	54	54	53	48	44	41	40	36	34	33	33	33	43	61	66	61	75	82	79	77	54.4	81.8
14-Jun-08	78	83	86	87	88	84	81	78	72	65	61	54	49	44	38	36	33	34	43	55	69	70	76	82	64.3	87.6
15-Jun-08	85	85	86	87	88	87	85	84	81	79	72	75	74	74	68	59	61	59	57	73	84	83	88	87	77.6	88.2
16-Jun-08	87	91	85	86	84	80	70	61	54	47	43	39	35	34	30	27	28	29	30	29	34	45	56	62	52.7	90.5
17-Jun-08	59	61	63	73	72	75	76	76	64	60	58	56	54	54	56	52	59	59	67	79	82	87	92	93	67.8	93.2
18-Jun-08	93	91	91	92	92	91	83	67	56	52	50	47	50	49	45	51	56	58	57	53	59	63	68	63	65.8	93.1
19-Jun-08	66	66	63	61	60	57	53	50	43	36	32	30	27	25	21	20	19	18	18	20	23	28	39	52	38.5	65.9
20-Jun-08	49	49	48	49	53	55	52	48	41	37	35	33	32	31	30	29	28	31	32	31	38	45	51	59	41.1	59.0
21-Jun-08	63	64	64	67	69	70	64	60	52	47	43	38	34	29	26	24	29	43	50	54	58	59	61	62	51.2	69.9
22-Jun-08	63	66	70	71	82	84	76	70	71	84	84	74	66	62	57	41	40	29	28	27	28	33	42	46	58.1	84.2
23-Jun-08	45	46	48	50	50	48	45	36	32	29	24	22	19	19	20	22	24	24	25	29	38	38	47	59	34.8	58.6
24-Jun-08	57	59	59	60	62	59	57	47	40	35	31	27	27	27	28	29	36	44	46	39	40	49	54	58	44.6	61.6
25-Jun-08	55	54	58	63	60	54	47	42	39	36	33	30	27	24	24	26	28	28	29	32	35	39	40	41	39.3	63.1
26-Jun-08	45	45	49	54	57	60	62	61	57	52	44	39	38	34	35	38	39	40	42	44	46	59	67	63	48.7	66.8
27-Jun-08	53	51	51	50	50	52	51	48	46	43	38	35	32	32	31	27	25	25	24	28	34	43	49	51	40.3	53.0
28-Jun-08	52	55	55	56	60	55	54	47	43	42	39	37	38	31	32	37	37	31	28	26	32	33	35	36	41.2	59.9
29-Jun-08	40	41	40	41	47	53	56	49	41	33	29	26	24	23	24	23	24	25	26	29	34	43	53	54	36.5	55.9
30-Jun-08	53	54	55	58	58	61	54	51	44	40	38	34	30	30	28	27	25	26	26	27	30	35	50	57	41.3	60.6
Hourly Avg	63.8	65.3	66.3	67.8	68.6	69.3	65.9	60.3	54.6	49.8	45.6	42.2	40.0	38.5	37.2	35.5	36.3	37.6	41.1	43.6	48.4	53.8	60.0	63.0		
Hourly Max	93.1	92.0	91.4	92.7	93.6	94.8	92.5	89.6	81.2	83.9	84.2	83.0	80.0	77.3	81.5	75.0	85.7	85.1	84.2	84.1	83.7	87.4	92.0	93.2		

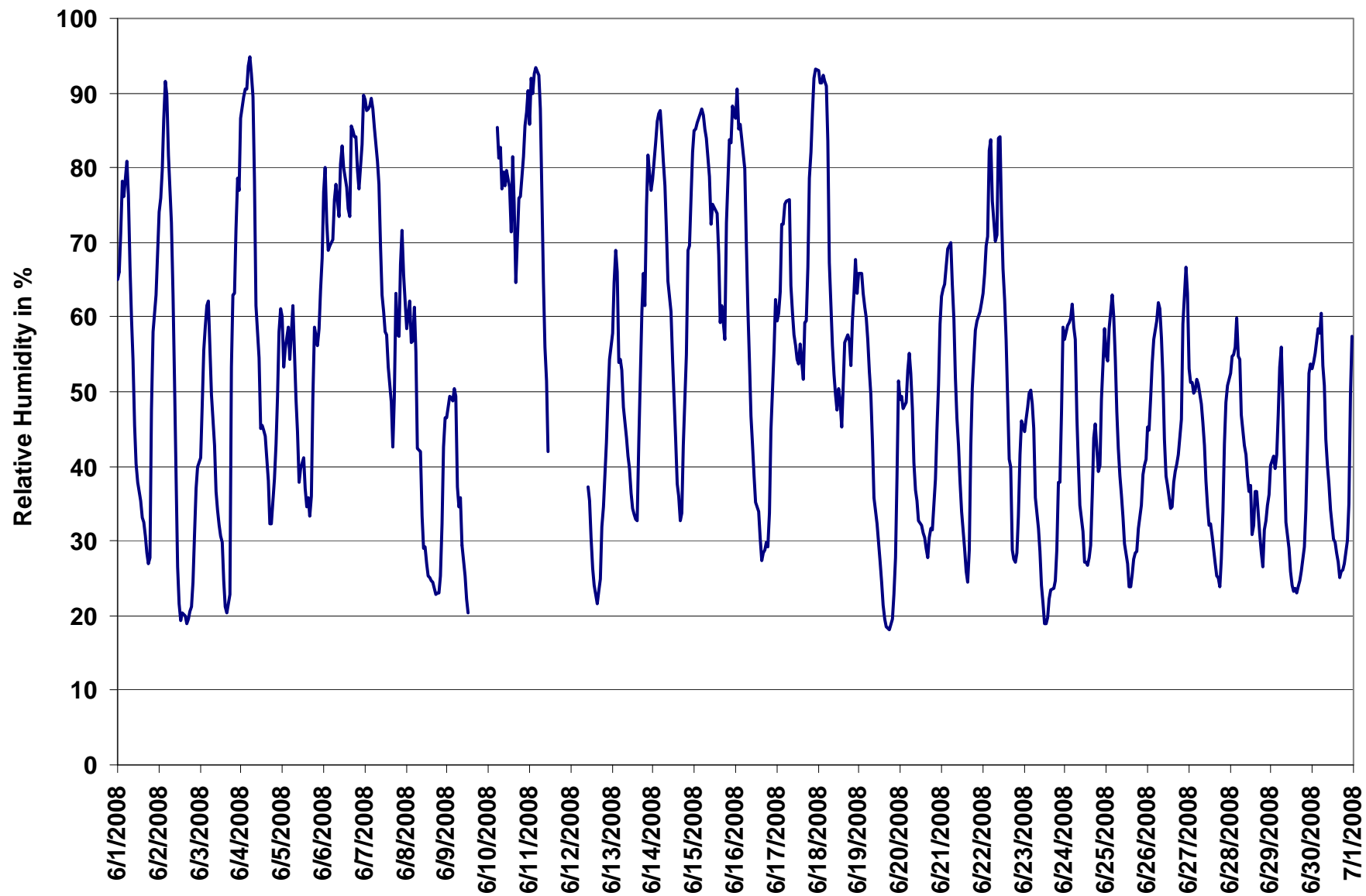


Figure 54. PASZA - Portable-Spirit River Relative Humidity 1-hr Average Monthly Trend

PASZA - Portable-Spirit River Temperature Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

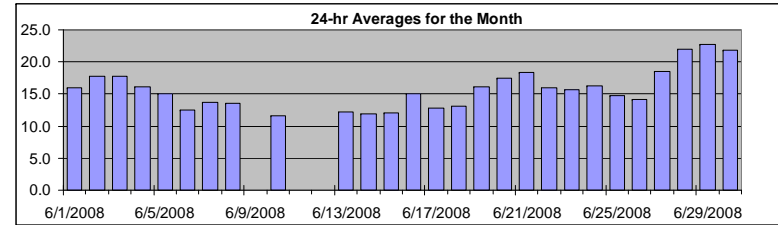
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	28.8	°C	29-Jun	17:00 18:00
Maximum 24-hr Value:	22.8	°C	29-Jun	



AIC Time:	0 hrs	Operational Time:	682 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	94.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	27.1	25.0	19.3	15.4	11.4	8.3	5.7	15.7 °C	15.4 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	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-Jun-08	0:00	11	10	9	9	9	9	10	12	14	16	17	19	20	21	22	22	23	23	23	23	18	15	14	13	16.0	23.2	
2-Jun-08	1:00	11	10	9	7	7	7	10	12	15	18	21	24	25	25	25	25	25	25	25	25	22	19	17	16	17.8	25.4	
3-Jun-08	2:00	15	13	11	11	10	11	15	18	20	21	22	22	24	24	25	25	25	25	19	16	15	14	14	14	17.8	25.1	
4-Jun-08	3:00	13	11	10	10	9	9	10	12	15	18	18	20	20	21	21	21	22	22	20	19	17	15	14	14	16.1	22.0	
5-Jun-08	4:00	12	13	12	10	11	11	11	13	15	16	17	18	17	18	19	19	20	19	18	16	16	15	14	13	15.1	19.6	
6-Jun-08	5:00	12	11	12	12	11	11	11	11	12	13	13	13	14	14	14	15	14	13	13	13	13	13	12	10	12.5	15.0	
7-Jun-08	6:00	10	10	10	9	8	9	10	11	12	14	15	16	16	17	17	19	19	18	15	16	16	14	13	13	13.6	19.3	
8-Jun-08	7:00	13	11	10	10	9	8	10	13	12	14	16	16	17	18	18	17	18	18	17	16	16	12	8	7	13.6	18.2	
9-Jun-08	8:00	7	6	6	5	5	7	11	12	13	14	15	16	17	P	P	P	P	P	P	P	P	P	P	P	N	16.9	
10-Jun-08	9:00	P	P	P	P	P	9	10	10	11	11	11	12	13	13	12	13	14	14	13	12	12	12	11	10	11.7	14.4	
11-Jun-08	10:00	9	7	7	6	7	7	10	12	14	16	17	18	P	P	P	P	P	P	P	P	P	P	P	P	N	18.5	
12-Jun-08	11:00	P	P	P	P	P	P	P	P	P	P	19	21	22	22	22	23	22	22	20	19	17	16	14	13	N	23.0	
13-Jun-08	12:00	12	11	9	10	11	11	12	12	13	14	15	15	16	16	16	16	14	12	11	11	10	9	8	7	12.1	16.3	
14-Jun-08	13:00	6	5	4	4	5	7	9	10	12	13	13	13	14	15	17	17	18	18	18	15	13	13	12	11	11.9	18.3	
15-Jun-08	14:00	10	10	10	10	10	10	10	10	11	11	13	12	13	13	13	15	15	15	16	14	13	12	11	11	12.0	15.6	
16-Jun-08	15:00	11	10	9	8	8	9	11	13	15	16	17	18	19	19	20	20	20	21	20	20	18	14	11	11	15.1	20.7	
17-Jun-08	16:00	11	11	11	10	11	10	11	12	14	15	16	16	16	17	16	16	16	14	14	12	12	11	8	7	12.8	16.8	
18-Jun-08	17:00	7	7	6	6	7	8	11	13	15	16	17	17	17	16	17	17	16	15	16	16	16	15	14	13	12	13.1	17.4
19-Jun-08	18:00	11	10	10	10	10	11	12	13	15	17	18	19	19	20	20	21	21	22	22	21	20	18	14	10	16.1	22.0	
20-Jun-08	19:00	10	10	11	11	10	11	14	16	18	19	20	21	21	22	22	22	23	22	23	22	21	18	16	14	17.5	23.3	
21-Jun-08	20:00	13	12	12	11	11	11	14	15	18	20	21	22	23	24	25	26	25	22	21	21	20	19	18	17	18.4	25.8	
22-Jun-08	21:00	16	16	16	15	14	14	15	16	16	15	15	16	17	17	18	19	19	20	20	19	17	14	11	9	16.0	19.8	
23-Jun-08	22:00	10	9	8	8	8	9	11	13	15	16	17	19	20	21	22	22	22	22	22	21	18	17	14	11	15.7	22.2	
24-Jun-08	23:00	11	10	10	10	10	12	14	17	18	20	21	22	22	22	22	22	21	20	18	18	18	16	14	13	11	16.3	22.2
25-Jun-08	0:00	11	12	11	10	10	11	12	13	14	15	16	17	18	19	20	19	19	18	18	16	15	13	13	12	14.7	19.6	
26-Jun-08	1:00	12	13	12	11	11	11	10	11	12	13	16	17	17	18	17	17	18	17	17	18	17	13	11	11	14.2	17.9	
27-Jun-08	2:00	13	14	13	13	13	13	15	16	17	18	20	21	22	23	24	24	24	25	25	24	22	18	16	16	18.6	24.6	
28-Jun-08	3:00	16	15	16	16	15	16	18	20	22	23	24	25	25	27	26	26	26	27	27	27	25	23	22	21	22.0	27.2	
29-Jun-08	4:00	20	20	19	19	18	17	18	20	21	23	23	24	25	26	27	28	29	29	28	27	26	22	19	19	22.8	28.8	
30-Jun-08	5:00	18	18	18	17	17	17	19	19	20	21	23	24	25	25	26	27	27	26	26	26	25	23	19	17	21.8	27.1	
Hourly Avg		11.8	11.2	10.8	10.4	10.2	10.5	12.2	13.7	15.2	16.5	17.6	18.4	19.1	19.8	20.2	20.5	20.4	20.2	19.6	18.8	17.5	15.5	13.5	12.4			
Hourly Max		20.1	19.6	19.4	19.1	18.0	16.9	19.0	20.3	22.4	23.1	24.3	24.9	25.3	26.7	27.1	27.9	28.5	28.8	28.3	27.2	25.9	23.3	21.8	21.0			

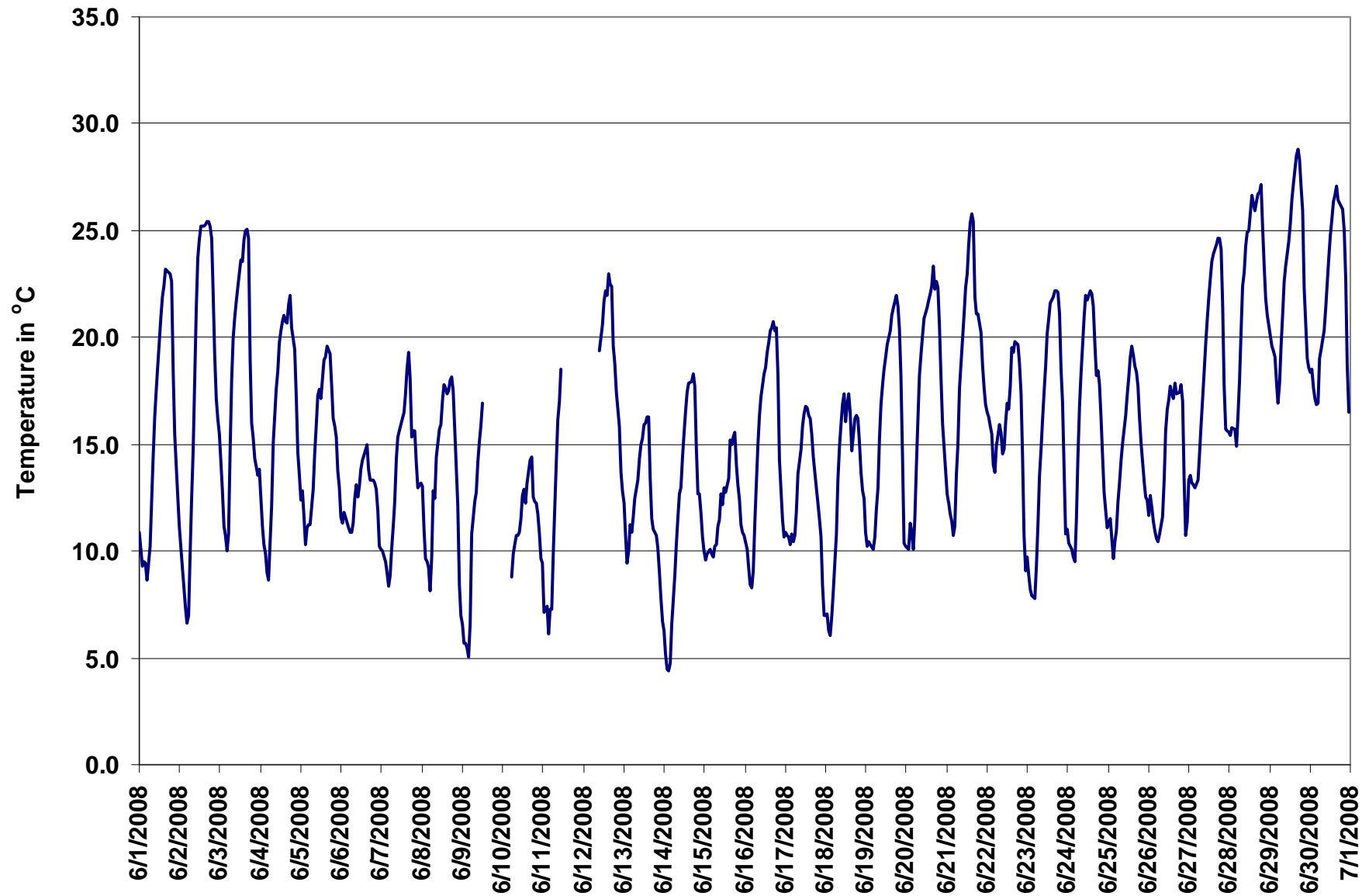


Figure 55. PASZA - Portable-Spirit River Temperature 1-hr Average Monthly Trend

PASZA - Portable-Spirit River Scalar Wind Speed Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

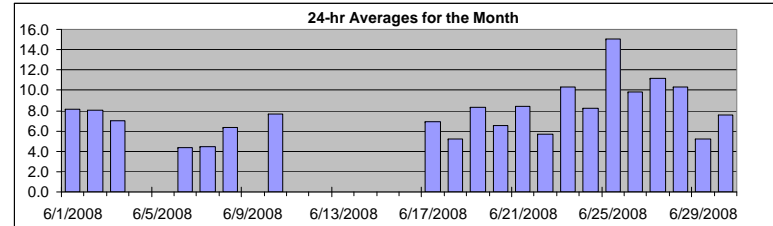
Wind Speed (WSs)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	23.0	km/hr	25-Jun	9:00 10:00
Maximum 24-hr Value:	15.0	km/hr	25-Jun	

Calm Time:	0 hrs	0% calms	Operational Time:	570 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	79.2%				
Percentile	99	95	75	50	25	5	1	AverageS
	19.4	15.9	10.2	7.1	4.3	2.2	1.5	7.7 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 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-Jun-08	10	3	5	5	8	4	8	7	7	9	15	15	14	11	7	7	5	7	7	9	17	7	6	4	8.2	16.5		
2-Jun-08	5	7	3	4	5	4	3	3	4	6	8	10	9	10	14	14	11	11	11	13	9	9	9	8	8.0	14.4		
3-Jun-08	5	3	5	7	4	1	2	3	5	7	10	9	6	6	8	11	14	13	12	4	11	N	N	N	7.0	13.6		
4-Jun-08	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	
5-Jun-08	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	7.2	7.2	
6-Jun-08	5	5	3	3	4	7	4	3	4	4	4	3	4	6	8	8	7	6	3	3	5	3	2	2	4.4	7.8		
7-Jun-08	2	2	3	2	2	2	2	3	3	6	7	7	5	5	7	5	7	9	9	2	2	2	6	7	4.5	9.4		
8-Jun-08	2	4	1	6	11	8	8	8	5	5	7	10	7	9	7	9	7	9	5	4	3	3	6	8	6.4	10.6		
9-Jun-08	9	10	10	9	9	6	5	7	7	7	8	13	8	P	P	P	P	P	P	P	P	P	P	P	N	13.3		
10-Jun-08	P	P	P	P	P	3	4	4	8	9	19	11	10	12	9	9	10	14	12	4	1	1	2	3	7.6	18.6		
11-Jun-08	6	7	8	6	3	2	1	2	3	3	5	4	P	P	P	P	P	P	P	P	P	P	P	P	N	7.8		
12-Jun-08	P	P	P	P	P	P	P	P	P	P	6	6	5	6	7	8	6	4	18	4	8	8	7	7	N	17.8		
13-Jun-08	10	10	8	7	17	14	9	14	19	12	8	13	8	5	5	6	N	N	N	N	N	N	N	N	N	19.1	19.1	
14-Jun-08	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
15-Jun-08	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
16-Jun-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	3	3	2	6	7	7	N	7.1	7.1
17-Jun-08	8	3	6	9	6	2	8	4	4	4	6	8	8	10	12	11	6	10	10	11	5	3	7	3	6.9	11.6		
18-Jun-08	4	3	3	3	1	3	2	3	4	5	4	4	8	5	6	8	6	4	7	4	8	9	10	10	5.2	10.2		
19-Jun-08	11	14	16	14	13	11	8	7	5	5	8	11	9	9	11	7	7	5	4	4	3	3	8	8	8.3	15.6		
20-Jun-08	7	6	7	7	9	4	2	3	4	5	6	6	6	6	4	5	7	10	7	10	8	9	8	8	6.5	10.2		
21-Jun-08	9	9	6	2	4	2	2	4	10	11	13	14	14	14	14	16	18	14	11	9	2	4	2	2	8.4	17.5		
22-Jun-08	2	2	2	4	3	3	3	4	5	3	4	5	4	5	4	7	4	12	7	11	15	8	9	10	5.7	14.9		
23-Jun-08	7	7	11	12	12	11	11	15	17	18	15	17	13	14	10	10	8	6	4	4	2	6	10	8	10.3	17.8		
24-Jun-08	9	8	9	9	9	3	2	2	3	4	4	6	6	5	7	12	22	20	12	10	7	6	9	9	8.2	21.7		
25-Jun-08	10	11	11	12	16	11	16	22	15	23	18	19	19	14	11	17	16	17	14	18	11	12	13	14	15.0	23.0		
26-Jun-08	14	16	10	16	17	17	14	16	15	13	7	7	7	6	6	8	7	6	5	4	3	5	7	10	9.8	17.2		
27-Jun-08	12	14	15	13	13	14	18	16	13	11	11	11	9	8	9	16	11	7	5	4	9	9	10	11	11.2	18.3		
28-Jun-08	11	11	11	9	7	7	6	10	14	17	21	20	15	16	13	13	11	8	7	7	4	3	3	3	10.3	21.3		
29-Jun-08	3	5	7	5	3	3	3	3	4	5	6	8	8	8	8	7	6	7	5	3	2	5	5	7	5.2	8.2		
30-Jun-08	7	2	4	2	4	3	5	12	13	9	7	6	8	7	8	10	9	14	14	10	5	8	10	4	7.6	14.4		
1-hr Average	7.4	7.1	7.1	7.2	7.9	6.1	6.1	7.4	8.0	8.4	9.1	9.6	8.7	8.5	8.4	9.6	9.1	9.4	8.2	6.6	6.0	5.7	6.9	6.9				
Hourly Max	14.1	15.9	15.6	15.9	17.2	16.9	18.3	22.4	19.1	23.0	21.3	19.7	19.2	15.7	14.4	16.8	21.7	20.5	17.8	18.0	16.5	12.0	13.0	13.7				

PASZA - Portable-Spirit River Vector Wind Speed Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

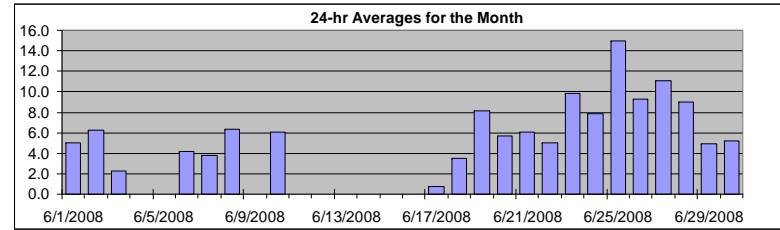
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	22.9	km/hr	25-Jun	9:00 10:00
Maximum 24-hr Value:	15.0	km/hr	25-Jun	



Calm Time:	0 hrs	0% calms	Operational Time:	570 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	79.2%				
Percentile	99	95	75	50	25	5	1	AverageV
	19.1	15.8	9.7	6.4	3.5	1.6	0.7	20.0 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max		
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00	23:00
1-Jun-08	7	2	2	3	7	3	8	7	7	8	15	14	12	9	4	5	3	5	5	8	16	7	6	3	5.0	16.3		
2-Jun-08	5	7	2	1	5	4	3	2	3	6	7	10	8	8	13	12	11	10	11	13	9	9	9	8	6.3	13.3		
3-Jun-08	5	2	4	7	4	1	2	3	4	7	9	8	4	3	6	10	12	12	12	4	10	N	N	N	2.2	12.5		
4-Jun-08	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	
5-Jun-08	N	N	N	N	N	N	N	N	N	N	N	5	4	4	3	4	1	3	4	3	1	1	3	5	N	4.9	4.9	
6-Jun-08	5	5	3	2	4	7	4	3	3	3	3	3	4	5	8	7	7	6	3	2	5	3	1	2	4.1	7.7		
7-Jun-08	2	2	2	2	2	2	2	2	3	6	6	7	5	5	6	4	6	8	8	1	2	2	6	6	3.8	8.4		
8-Jun-08	2	4	1	6	11	7	8	8	5	4	6	9	7	8	6	9	7	9	4	3	2	2	6	8	6.3	10.5		
9-Jun-08	9	10	10	9	9	6	5	6	6	6	6	11	6	P	P	P	P	P	P	P	P	P	P	P	N	11.2	11.2	
10-Jun-08	P	P	P	P	P	3	4	3	7	9	18	10	10	11	8	9	9	13	11	3	1	1	2	3	6.0	18.4		
11-Jun-08	6	7	8	6	2	2	0	2	3	1	3	3	P	P	P	P	P	P	P	P	P	P	P	P	N	7.7	7.7	
12-Jun-08	P	P	P	P	P	P	P	P	P	P	5	5	4	2	6	6	5	3	17	3	8	8	7	7	N	17.1	17.1	
13-Jun-08	10	9	8	6	17	13	9	14	19	12	8	12	7	4	4	5	N	N	N	N	N	N	N	N	N	N	19.0	19.0
14-Jun-08	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
15-Jun-08	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
16-Jun-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	2	2	1	6	7	7	N	7.1	7.1
17-Jun-08	5	3	6	8	6	2	7	4	3	4	5	7	6	10	10	10	6	10	10	11	5	3	7	3	0.7	10.9	10.9	
18-Jun-08	4	2	3	2	1	2	2	3	4	3	3	1	6	2	1	6	4	4	7	3	8	9	10	10	3.5	10.0	10.0	
19-Jun-08	11	14	16	14	13	11	7	7	4	4	8	10	8	8	10	7	7	5	3	3	3	3	7	8	8.1	15.6	15.6	
20-Jun-08	7	6	7	7	9	3	1	2	4	3	4	5	4	4	3	3	6	10	6	10	8	9	8	8	5.6	9.9	9.9	
21-Jun-08	9	9	4	1	3	0	2	4	9	10	12	14	13	13	13	14	16	12	11	8	1	3	1	2	6.1	16.3	16.3	
22-Jun-08	1	2	1	4	3	2	3	4	5	2	4	5	3	4	3	7	4	12	6	11	15	7	9	10	5.0	14.8	14.8	
23-Jun-08	6	7	11	12	12	11	11	15	17	18	15	17	13	14	10	10	7	5	4	3	2	6	9	8	9.8	17.6	17.6	
24-Jun-08	9	8	9	9	9	3	1	2	3	2	2	5	5	4	7	11	22	20	12	10	7	6	9	9	7.9	21.5	21.5	
25-Jun-08	10	11	11	11	16	11	16	22	15	23	18	19	19	13	11	16	16	16	14	18	11	12	13	14	15.0	22.9	22.9	
26-Jun-08	14	16	10	16	17	17	14	16	15	13	6	7	6	6	5	8	7	5	4	4	3	5	7	10	9.3	17.2	17.2	
27-Jun-08	12	14	15	13	12	14	18	16	13	11	10	11	9	7	8	16	11	6	4	4	9	9	9	11	11.1	18.2	18.2	
28-Jun-08	11	11	11	9	5	6	5	10	14	17	21	19	15	15	13	13	11	7	7	7	4	2	2	3	9.0	21.1	21.1	
29-Jun-08	3	5	7	5	3	3	3	2	4	5	5	7	7	8	7	6	5	6	4	3	1	5	5	7	4.9	7.5	7.5	
30-Jun-08	7	1	4	2	4	3	5	12	13	8	5	4	7	6	6	9	8	13	14	10	5	7	9	4	5.2	13.9	13.9	
1-hr Vector	6.6	5.8	6.4	6.4	6.3	5.0	4.0	4.7	4.7	4.7	3.9	4.6	4.7	3.8	3.5	5.2	4.5	4.6	3.6	2.9	3.0	3.5	5.3	6.0				
Hourly Max	14.0	15.9	15.6	15.9	17.2	16.8	18.2	22.3	19.0	22.9	21.1	19.4	18.9	15.5	13.3	16.5	21.5	20.4	17.1	17.9	16.3	12.0	13.0	13.7				

PASZA - Portable-Spirit River Wind Direction Monthly Summary

Station: Portable-Spirit River
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	570 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	79.2%				
Percentile	99	95	75	50	25	5	1	Average
	351.9	328.3	268.9	251.1	219.6	68.3	5.4	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	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-Jun-08	193	68	197	142	119	115	87	103	96	155	156	152	157	159	158	201	214	250	7	34	59	83	136	128	134	SE	
2-Jun-08	165	125	355	291	271	264	326	113	101	107	132	170	179	185	187	177	186	156	169	156	169	153	145	179	168	SSE	
3-Jun-08	164	331	221	241	266	294	269	280	301	317	329	336	272	3	131	123	145	155	250	272	255	N	N	N	246	WSW	
4-Jun-08	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	-
5-Jun-08	N	N	N	N	N	N	N	N	N	N	N	N	273	286	339	19	319	353	311	273	265	307	276	253	260	N	-
6-Jun-08	258	259	261	266	262	260	291	271	284	286	288	293	298	305	309	311	317	306	286	292	304	292	260	262	288	WNW	
7-Jun-08	261	260	264	260	265	262	260	266	283	311	312	319	300	312	331	325	318	259	253	263	261	218	234	245	283	WNW	
8-Jun-08	260	256	263	258	253	250	253	259	260	270	259	251	256	250	256	245	256	254	271	280	281	255	252	246	256	WSW	
9-Jun-08	250	253	251	246	252	254	257	328	1	349	352	355	338	P	P	P	P	P	P	P	P	P	P	P	N	-	
10-Jun-08	P	P	P	P	P	296	333	315	3	4	346	339	345	352	42	18	11	57	59	37	282	301	230	226	6	N	
11-Jun-08	230	235	239	248	238	100	74	261	265	246	142	152	P	P	P	P	P	P	P	P	P	P	P	P	N	-	
12-Jun-08	P	P	P	P	P	P	P	P	P	P	228	196	265	198	157	211	231	269	201	272	252	246	248	234	N	-	
13-Jun-08	232	239	219	236	244	239	247	246	245	255	257	251	256	269	274	286	N	N	N	N	N	N	N	N	N	N	-
14-Jun-08	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	-
15-Jun-08	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	-
16-Jun-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	302	302	284	246	234	229	N	-
17-Jun-08	263	306	164	185	149	207	20	44	352	327	55	74	81	104	169	229	305	322	323	334	5	211	253	265	309	NW	
18-Jun-08	248	247	267	211	108	237	252	262	287	300	326	277	182	2	331	254	306	198	196	173	213	222	214	241	242	WSW	
19-Jun-08	246	240	245	249	251	256	261	261	269	276	259	247	241	240	234	255	250	258	290	269	210	273	260	241	251	WSW	
20-Jun-08	240	258	253	255	245	266	292	345	303	284	257	213	220	220	251	235	213	217	198	207	197	199	209	214	231	SW	
21-Jun-08	221	229	214	346	306	237	24	80	103	115	116	111	121	125	119	117	99	124	97	79	128	68	203	269	119	ESE	
22-Jun-08	320	56	30	247	272	255	288	299	310	274	259	262	278	277	276	268	277	258	265	255	247	253	235	226	262	W	
23-Jun-08	230	218	221	226	220	212	217	245	252	249	246	246	252	247	254	255	270	290	305	268	249	249	239	241	243	WSW	
24-Jun-08	249	252	251	255	255	262	298	264	306	295	239	240	231	228	223	218	242	239	243	258	249	219	229	243	244	WSW	
25-Jun-08	252	252	247	235	239	249	252	249	255	247	249	252	245	255	262	250	253	251	255	251	254	245	242	238	249	WSW	
26-Jun-08	235	247	253	246	247	244	235	235	249	253	269	271	279	294	283	268	267	295	294	300	302	238	222	241	253	WSW	
27-Jun-08	250	252	252	254	256	251	250	254	258	256	255	250	254	260	256	247	251	266	267	259	240	230	222	227	250	WSW	
28-Jun-08	227	226	227	216	135	133	171	214	231	225	231	235	230	244	216	188	193	245	257	262	281	279	278	286	225	SW	
29-Jun-08	287	259	251	255	247	240	240	273	261	296	290	251	263	258	262	266	263	308	304	299	248	221	244	244	262	W	
30-Jun-08	249	281	259	269	265	262	258	356	347	5	44	25	351	338	326	337	331	350	356	22	21	13	107	102	351	N	
Hourly Avg	238	245	240	242	242	243	255	261	272	267	260	249	247	253	236	241	250	251	261	271	251	234	224	234			

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: June 1, 2008 to July 1, 2008

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	570 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	90.0%			
Percentile	99	95	75	50	25	5	1
	84.7	67.9	43.4	26.4	11.4	3.8	2.8

Status Flag Characters

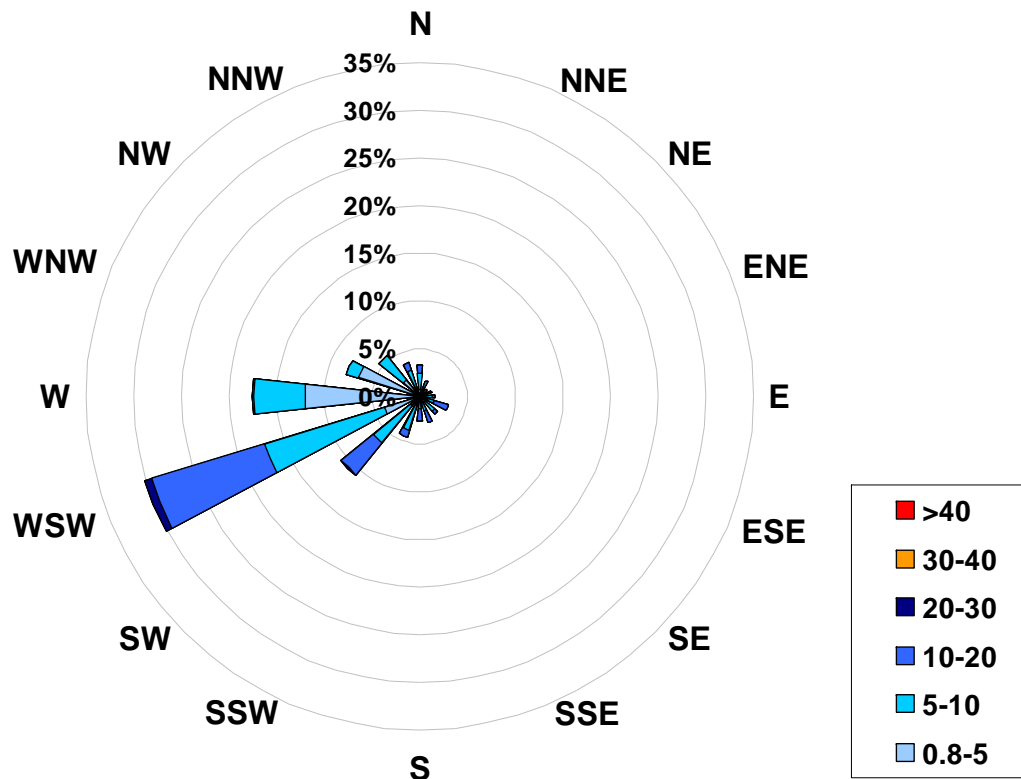
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Jun-08	65	46	82	42	24	32	21	16	19	31	18	22	25	40	76	65	56	53	74	41	10	6	14	22	81.6		
2-Jun-08	17	36	45	77	10	12	38	51	33	20	26	23	34	60	31	31	19	32	18	10	21	21	4	15	76.9		
3-Jun-08	32	82	47	17	20	38	52	66	30	20	27	40	48	73	53	28	23	23	24	46	40	N	N	N	81.5		
4-Jun-08	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		
5-Jun-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	88.2		
6-Jun-08	6	8	44	53	23	17	45	54	46	58	60	51	49	33	13	18	10	25	50	57	34	46	62	36	62.1		
7-Jun-08	45	56	39	60	25	41	50	60	57	24	29	22	30	37	36	48	33	34	41	76	40	26	6	35	76.1		
8-Jun-08	61	33	65	14	4	8	5	21	27	37	47	26	36	29	37	23	30	20	47	47	61	39	6	2	64.9		
9-Jun-08	4	2	3	3	4	5	14	34	28	44	60	54	68	P	P	P	P	P	P	P	P	P	P	P	67.5		
10-Jun-08	P	P	P	P	P	26	21	36	32	23	6	12	14	33	19	20	21	23	17	69	76	61	34	59	76.3		
11-Jun-08	4	14	9	20	54	76	91	40	47	94	64	54	P	P	P	P	P	P	P	P	P	P	P	P	93.7		
12-Jun-08	P	P	P	P	P	P	P	P	P	P	41	49	38	97	35	54	57	46	17	56	26	9	9	16	97.3		
13-Jun-08	8	7	11	14	5	7	20	11	8	16	38	25	39	37	41	41	N	N	N	N	N	N	N	N	41.1		
14-Jun-08	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	
15-Jun-08	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	
16-Jun-08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	46	51	49	9	7	4	50.7	
17-Jun-08	49	26	27	14	16	57	35	27	43	34	50	38	49	18	33	34	26	10	9	12	48	68	15	25	68.1		
18-Jun-08	12	54	58	53	75	37	31	32	39	43	69	84	66	85	85	70	47	35	11	63	7	14	12	4	84.7		
19-Jun-08	4	2	4	3	3	5	12	24	43	45	30	19	34	27	25	34	25	37	39	44	25	47	29	13	47.5		
20-Jun-08	10	5	7	4	4	52	68	47	35	48	53	50	52	54	57	54	70	17	21	12	12	6	4	4	69.7		
21-Jun-08	7	7	66	74	29	93	69	31	12	16	9	15	14	19	22	28	22	35	8	20	57	34	61	67	93.1		
22-Jun-08	57	24	56	11	32	58	42	43	17	45	26	26	54	40	47	28	43	21	20	18	10	7	9	2	57.7		
23-Jun-08	33	12	3	4	5	14	13	8	7	8	12	12	14	22	30	25	30	38	48	31	52	11	5	4	52.1		
24-Jun-08	4	4	3	3	4	36	42	54	40	60	84	46	50	40	19	20	7	6	8	8	12	6	8	7	84.0		
25-Jun-08	3	5	7	7	10	11	6	6	9	7	11	13	17	21	21	19	12	13	7	6	7	4	4	3	20.8		
26-Jun-08	6	3	4	3	3	5	4	6	7	17	28	34	34	34	39	21	40	34	46	48	48	17	4	10	48.4		
27-Jun-08	3	3	3	4	5	4	4	6	8	19	22	19	22	33	27	15	18	38	41	32	5	9	5	3	41.2		
28-Jun-08	4	4	5	9	35	20	29	9	8	6	8	11	13	12	21	12	13	31	20	27	39	47	52	49	52.4		
29-Jun-08	44	34	14	14	42	20	11	43	40	34	33	35	31	32	31	34	32	37	31	31	43	17	9	10	43.6		
30-Jun-08	12	66	4	43	7	35	8	32	11	26	48	69	43	41	62	27	32	19	16	12	6	18	31	26	68.9		

Hourly Max	65	82	82	77	75	93	91	66	57	94	84	84	68	97	85	70	88	53	74	76	80	68	62	67
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1-hr Average Wind Rose (in km/hr) Located at the Portable-Spirit River Site for June 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	185
5	to	10	238
10	to	20	142
20	to	30	5
30	to	40	0
	>	40	0
Total Non-Zero Values			570

PASZA
Valleyview Station
Monthly Summary Tables, Graphs and
Roses

PASZA - Valleyview Sulphur Dioxide Monthly Summary

Station: Valleyview
 Station Owner: PASZA

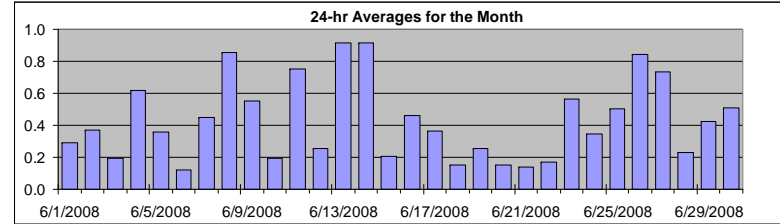
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: June 1, 2008 to July 1, 2008

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:	8.2 ppb	26-Jun	20:00	21:00
Maximum 24-hr Average:	0.9 ppb	14-Jun		



AIC Time:	30 hrs	Operational Time:	684 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.1	1.7	0.5	0.3	0.0	0.0	0.0	0.4 ppb	0.3 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-Jun-08	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	0.3	0.7
2-Jun-08	A	0	0	0	1	1	1	1	1	1	1	1	1	C	C	C	0	0	0	0	0	0	0	0	0	0.4	1.0
3-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0.2	3.7
4-Jun-08	A	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	2	3	1	1	0	0	0	0	0	0.6	2.7
5-Jun-08	A	0	0	0	0	0	0	0	0	0	2	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0.4	1.5
6-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
7-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	1	1	0	0	0	0.4	1.2
8-Jun-08	A	0	0	1	1	1	2	3	1	1	1	1	1	0	1	0	1	0	0	1	1	1	1	1	0.9	3.1	
9-Jun-08	A	1	1	0	1	0	1	1	3	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.5	2.5
10-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.2	0.7
11-Jun-08	A	0	0	0	0	0	0	0	1	4	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0.7	3.7
12-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0.3	1.1
13-Jun-08	A	0	0	1	1	0	2	3	3	2	2	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0.9	3.1
14-Jun-08	A	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	0	1	2	2	5	3	3	0.9	4.8	
15-Jun-08	A	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9
16-Jun-08	A	0	0	0	0	0	0	0	1	2	1	0	2	0	1	0	0	1	0	0	0	0	0	0	0	0.5	2.3
17-Jun-08	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0.4	1.5
18-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0.1	1.9
19-Jun-08	A	0	0	0	0	0	0	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.2
20-Jun-08	A	0	0	0	0	0	0	0	2	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.7
21-Jun-08	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
22-Jun-08	A	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
23-Jun-08	A	0	0	0	0	0	0	0	0	2	2	1	1	1	0	1	0	1	1	0	0	0	0	0	0	0.6	2.3
24-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0.3	2.2
25-Jun-08	A	0	0	0	0	0	0	0	2	1	2	4	0	0	0	0	1	0	0	0	1	0	0	0	0	0.5	3.5
26-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	2	8	1	0	1	0.8	8.2	
27-Jun-08	A	1	0	0	0	0	0	0	2	3	2	1	0	1	2	1	0	1	0	0	0	0	0	0	0	0.7	3.4
28-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0.2	1.9
29-Jun-08	A	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0.4	1.2
30-Jun-08	A	0	0	0	0	0	0	0	2	3	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.5	2.5
Hourly Avg	N	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.8	1.1	0.8	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.5	0.7	0.4	0.3	0.3			
Hourly Max	0.0	1.4	0.6	0.6	0.9	1.4	2.3	3.1	2.8	3.7	2.5	3.5	3.1	2.9	1.6	1.9	1.6	2.7	1.4	3.7	8.2	4.8	2.6	3.1			

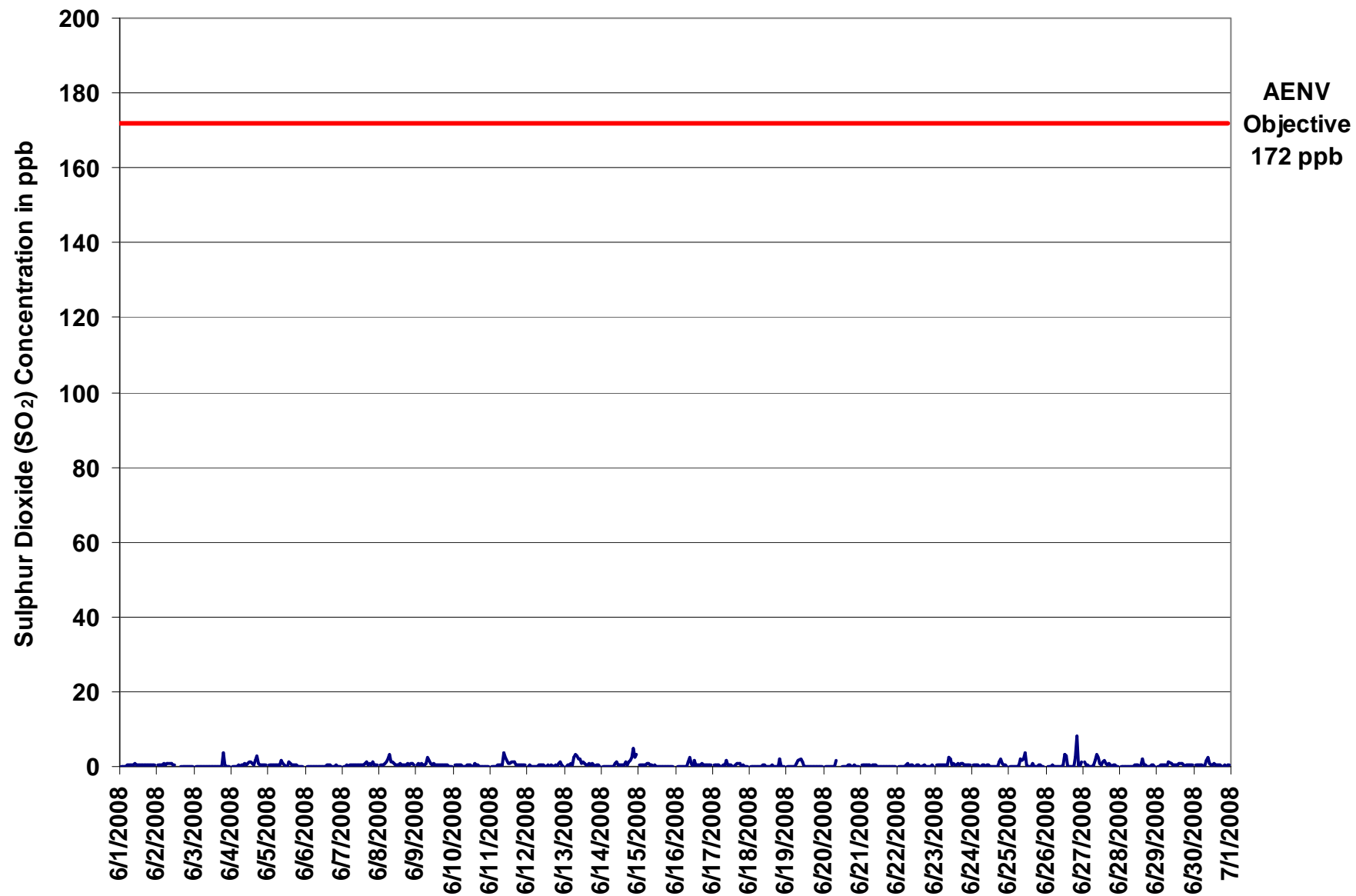


Figure 56. PASZA - Valleyview Sulphur Dioxide 1-hr Average Monthly Trend

Station: Valleyview
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

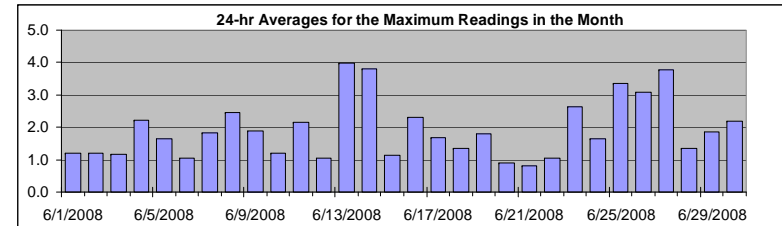
Sulphur Dioxide (SO₂)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	15.2	ppb	26-Jun	20:00 21:00
Maximum 24-hr Value:	4.0	ppb	13-Jun	

AIC Time:	30 hrs	Operational Time:	684 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	11.5	6.3	1.7	1.2	0.9	0.2	0.0	1.9 ppb	1.2 ppb



Status Flag Characters

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

Day Mountain Standard Time

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-Jun-08	A	0	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1.2	1.6
2-Jun-08	A	1	1	1	2	2	1	2	2	2	2	2	2	C	C	C	1	1	1	1	1	1	1	0	1.2	1.7
3-Jun-08	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0	11	2	1	1	1	1.2	11.0
4-Jun-08	A	1	1	1	1	1	1	1	1	2	1	2	3	2	2	1	7	11	2	2	2	2	1	1	2.2	11.5
5-Jun-08	A	1	1	1	2	2	1	1	2	3	1	1	1	0	6	6	1	1	1	1	1	1	1	1	1.6	6.3
6-Jun-08	A	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.5
7-Jun-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	7	4	1	2	1	3	1	1	1	1.8	6.6
8-Jun-08	A	2	2	2	2	3	4	7	3	6	3	4	4	2	5	1	1	1	1	2	2	1	2	1	2.5	6.5
9-Jun-08	A	2	2	1	2	2	1	2	12	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1.9	11.6
10-Jun-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1.2	2.2
11-Jun-08	A	1	0	1	1	1	1	1	2	6	4	3	1	4	2	5	5	1	1	1	1	2	1	1	2.1	6.3
12-Jun-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	3	3	1	1	1.1	2.8
13-Jun-08	A	0	1	1	1	1	5	8	7	9	9	6	8	5	2	4	5	2	6	3	1	2	2	1	4.0	9.2
14-Jun-08	A	1	1	1	1	1	1	1	1	4	7	4	3	3	1	4	6	6	5	5	4	11	10	7	3.8	11.2
15-Jun-08	A	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.2
16-Jun-08	A	1	1	0	0	1	1	0	11	7	4	1	6	1	3	1	1	4	1	1	1	1	1	2	2.3	10.6
17-Jun-08	A	1	1	1	2	1	1	1	1	3	1	1	1	0	1	1	3	3	6	1	1	1	1	1	1.7	6.3
18-Jun-08	A	1	0	0	0	1	1	1	1	1	1	2	3	0	1	4	2	2	0	1	5	0	3	0	1.3	4.9
19-Jun-08	A	0	0	0	0	0	0	4	5	8	9	6	1	3	1	3	1	2	1	0	0	0	0	0	1.8	8.6
20-Jun-08	A	0	0	0	0	0	1	3	4	C	C	C	1	0	0	0	2	2	0	1	1	0	0	1	0.9	3.8
21-Jun-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	0	0	0	0	1	0.8	1.4
22-Jun-08	A	0	0	0	0	0	2	2	1	2	1	1	1	1	1	1	2	2	0	0	1	0	1	1	1.0	2.3
23-Jun-08	A	1	1	0	1	1	1	1	1	13	6	4	3	2	2	4	1	3	4	2	1	1	1	1	2.6	12.9
24-Jun-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6	6	2	1	1	1	1.6	6.2
25-Jun-08	A	1	1	1	0	1	1	1	5	6	15	13	4	3	2	3	10	1	1	1	3	3	0	0	3.4	15.0
26-Jun-08	A	1	1	1	2	0	1	0	1	0	1	2	8	11	2	1	1	1	1	10	15	2	1	6	3.1	15.2
27-Jun-08	A	4	1	1	1	0	0	2	6	14	12	4	2	6	7	4	3	5	5	1	1	1	1	1	3.8	14.2
28-Jun-08	A	1	0	0	0	1	0	1	1	1	1	1	1	1	3	7	1	1	1	1	1	2	1	1	1.3	7.5
29-Jun-08	A	1	1	1	1	1	1	1	4	3	2	2	1	4	4	3	5	2	1	1	2	2	5	1	1.8	4.6
30-Jun-08	A	1	2	1	1	1	1	1	7	10	4	3	2	5	3	2	1	2	1	1	2	1	1	1	2.2	9.6
Hourly Avg	N	1.0	0.8	0.8	1.0	1.0	1.3	1.8	2.9	3.9	3.3	2.6	2.2	2.3	2.1	2.5	2.5	2.1	1.9	2.1	2.1	1.5	1.5	1.2		
Hourly Max	0.0	4.2	1.7	1.5	2.1	2.6	5.3	7.8	11.6	14.2	15.0	13.1	8.1	10.8	7.2	7.5	9.6	11.5	6.3	11.0	15.2	11.2	10.2	7.2		

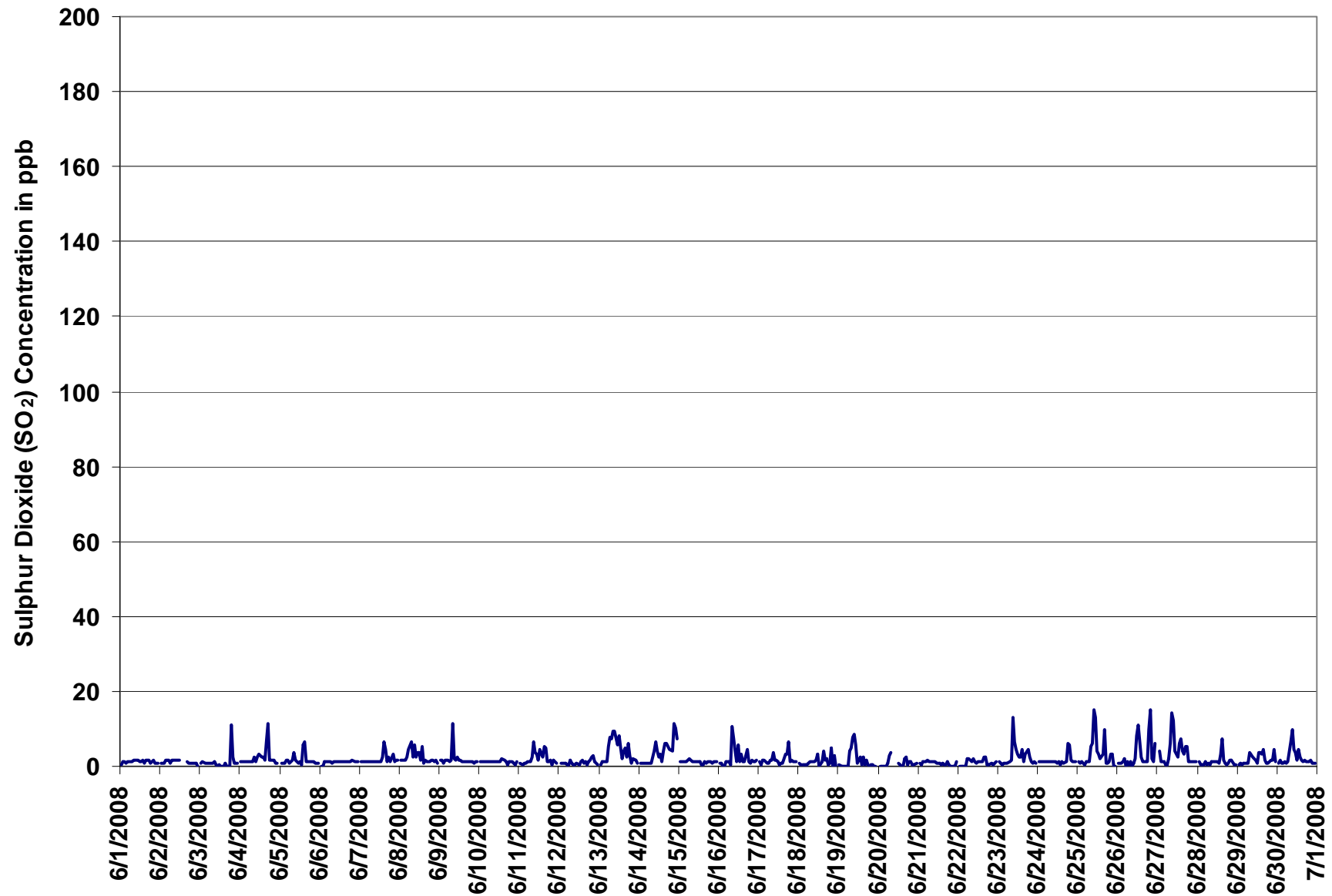
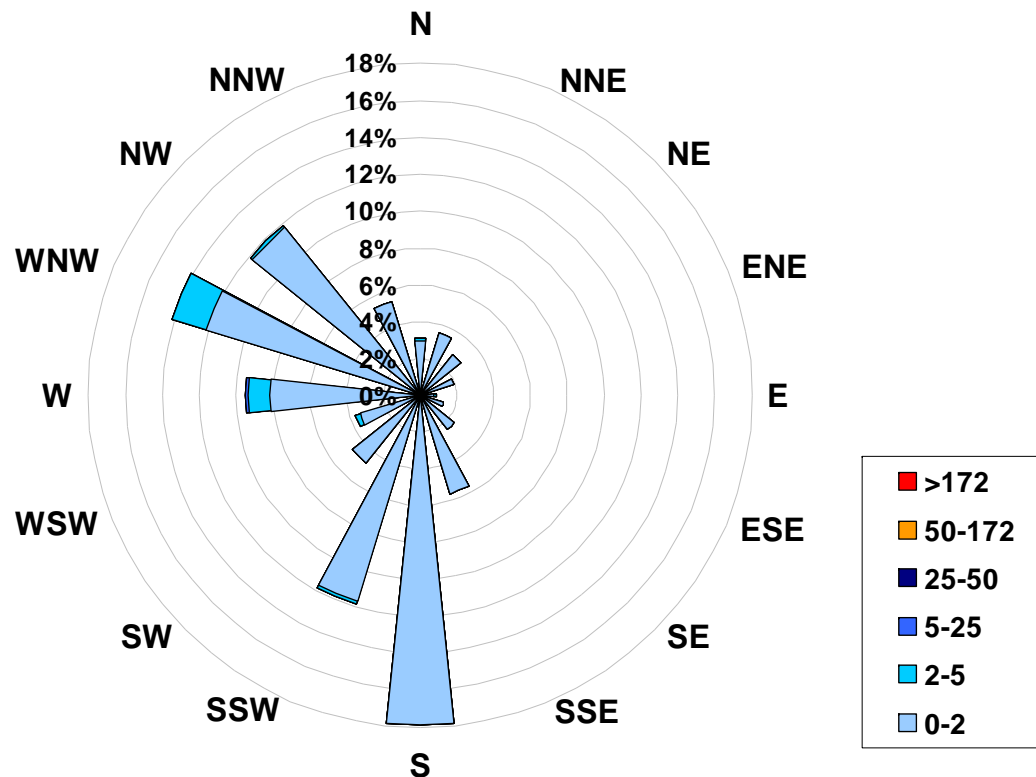


Figure 57. PASZA - Valleyview Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Valleyview Site for June 2008



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2	656	
2	to 5	27	
5	to 25	1	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values			684

PASZA - Valleyview Hydrogen Sulphide Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

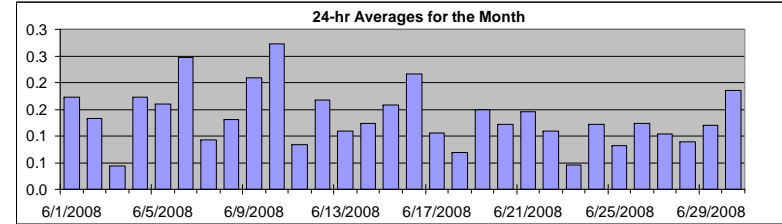
Hydrogen Sulphide (H₂S)

Monitoring Dates: June 1, 2008 to July 1, 2008

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

Summary

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	0.9	ppb	30-Jun	2:00 3:00
Maximum 24-hr Value:	0.3	ppb	10-Jun	



AIC Time:	30 hrs	Operational Time:	684 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.1 ppb	0.1 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
1-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
2-Jun-08	A	0	0	0	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
3-Jun-08	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
4-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2
5-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
6-Jun-08	A	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.2	0.8
7-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
8-Jun-08	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
9-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
10-Jun-08	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
11-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
12-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2
13-Jun-08	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
14-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
15-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
16-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
17-Jun-08	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
18-Jun-08	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
19-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
20-Jun-08	A	0	0	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
21-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
22-Jun-08	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
23-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
24-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.1	0.5
25-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
26-Jun-08	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
27-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
28-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
29-Jun-08	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
30-Jun-08	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9
Hourly Avg	N	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2			
Hourly Max	0.0	0.5	0.9	0.4	0.6	0.8	0.4	0.6	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.5	0.4	0.5	0.4		

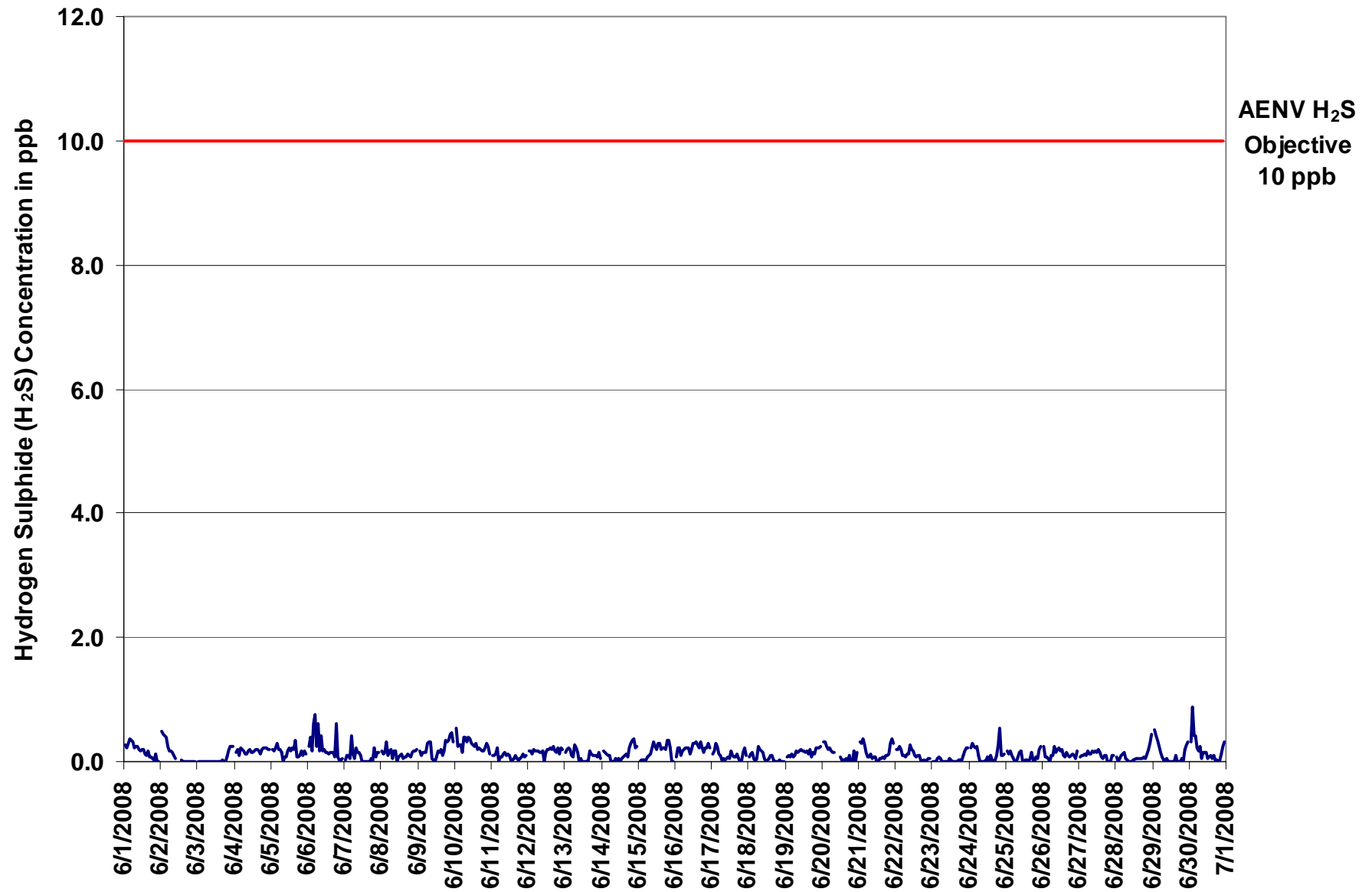


Figure 58. PASZA - Valleyview Hydrogen Sulphide 1-hr Average Monthly Trend

Station: Valleyview
 Station Owner: PASZA

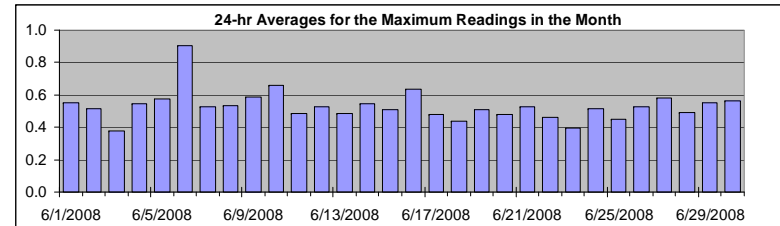
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Hydrogen Sulphide (H₂S)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Value:	3.1	ppb	6-Jun	5:00 6:00
Maximum 24-hr Value:	0.9	ppb	6-Jun	



AIC Time:	30 hrs	Operational Time:	684 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.5	0.8	0.6	0.5	0.4	0.3	0.2	0.5 ppb	0.5 ppb

Status Flag Characters

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

Day Mountain Standard Time

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-Jun-08	A	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	0	0	0	1	0	0	0.6	0.9	
2-Jun-08	A	1	1	1	1	1	0	1	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0.5	1.0	
3-Jun-08	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	1	0.4	1.8	
4-Jun-08	A	0	1	1	1	1	1	0	0	0	1	1	1	0	1	1	0	1	1	1	1	1	1	0.5	0.7	
5-Jun-08	A	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	1	0	1	0	0.6	1.1	
6-Jun-08	A	1	1	1	3	3	1	1	1	1	0	1	1	0	0	0	0	1	0	3	0	0	0	0.9	3.1	
7-Jun-08	A	0	1	1	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0.5	1.4	
8-Jun-08	A	0	0	1	1	1	1	1	0	0	1	0	0	1	0	0	0	1	1	0	1	1	1	0.5	1.2	
9-Jun-08	A	1	1	1	0	0	1	1	1	1	0	0	0	0	1	0	0	1	1	1	1	1	1	0.6	0.9	
10-Jun-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.7	0.9	
11-Jun-08	A	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0.5	1.4	
12-Jun-08	A	1	1	0	0	1	1	1	0	1	0	0	1	1	0	1	1	0	0	0	0	1	1	0.5	0.7	
13-Jun-08	A	1	0	1	1	1	0	1	1	1	0	0	0	0	0	0	1	0	1	0	0	0	1	0.5	0.8	
14-Jun-08	A	1	1	0	1	0	0	0	0	1	0	1	0	1	0	0	0	0	1	1	1	1	1	0.5	1.1	
15-Jun-08	A	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	1	1	1	0	0	0.5	0.8	
16-Jun-08	A	0	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	1.5	
17-Jun-08	A	0	1	1	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	1	0.5	1.0	
18-Jun-08	A	0	0	0	0	0	1	1	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0.4	0.6	
19-Jun-08	A	0	0	0	1	0	1	0	0	0	1	0	0	1	1	0	1	1	1	1	0	1	1	0.5	0.7	
20-Jun-08	A	1	1	1	1	1	1	1	0	C	C	C	0	0	0	0	0	0	0	0	0	0	1	0.5	0.7	
21-Jun-08	A	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.5	0.9	
22-Jun-08	A	1	1	1	1	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.5	0.7	
23-Jun-08	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.4	0.8	
24-Jun-08	A	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	2	0	1	0.5	1.6	
25-Jun-08	A	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0.4	0.7	
26-Jun-08	A	1	0	0	0	0	1	0	1	0	1	1	1	1	0	0	1	1	0	1	0	0	1	0.5	0.8	
27-Jun-08	A	0	2	1	0	0	1	0	1	1	1	1	1	1	0	0	1	1	0	0	0	0	0	0.6	1.7	
28-Jun-08	A	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0.5	0.9	
29-Jun-08	A	1	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0.6	1.4	
30-Jun-08	A	1	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0.6	1.3	
Hourly Avg	N	0.6	0.6	0.6	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.5			
Hourly Max	0.0	0.9	1.7	1.4	2.8	3.1	0.9	1.3	1.0	0.9	0.8	0.7	1.5	0.7	0.7	0.6	1.1	0.8	0.7	2.6	1.6	1.8	1.1	0.8		

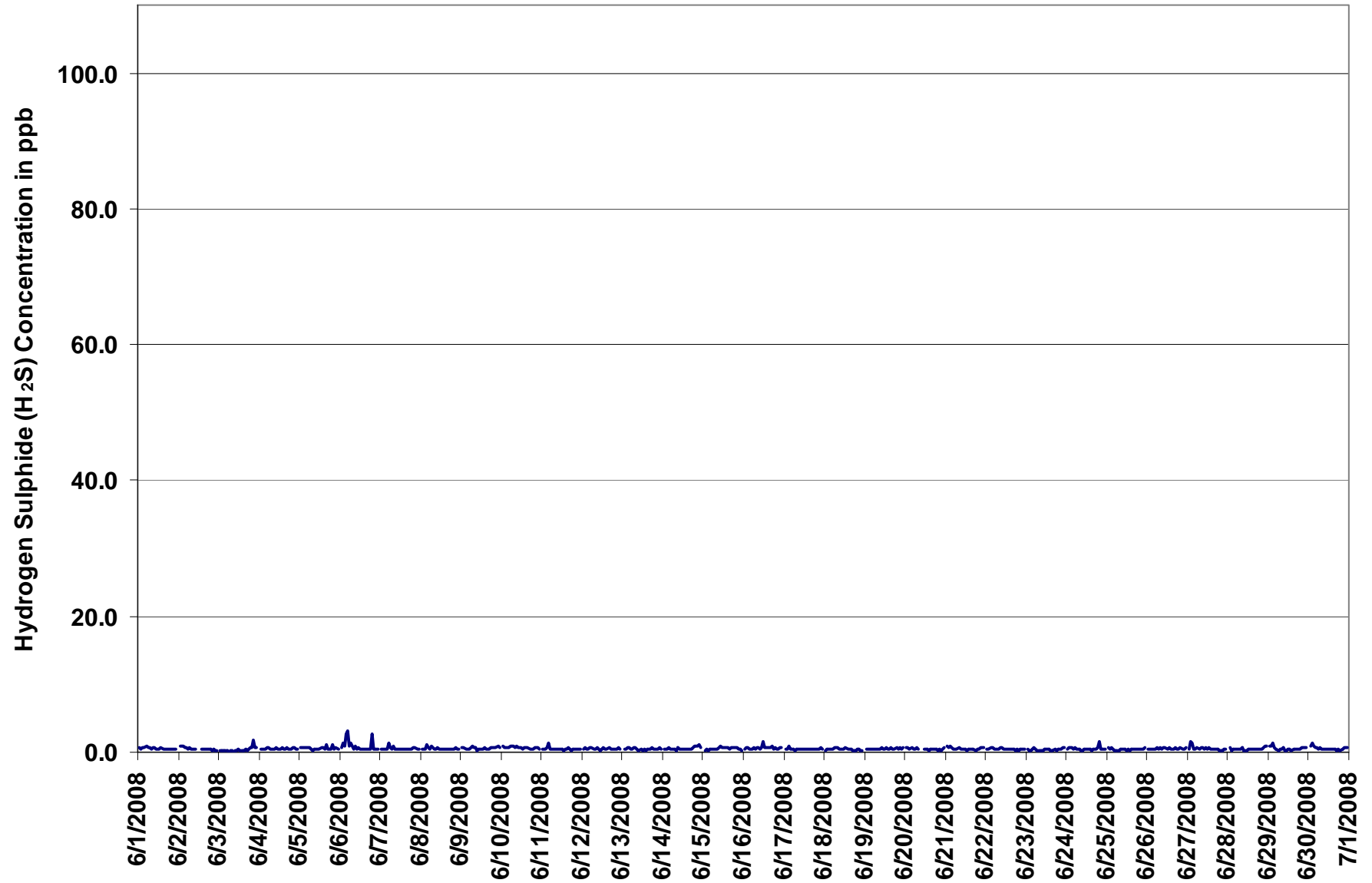
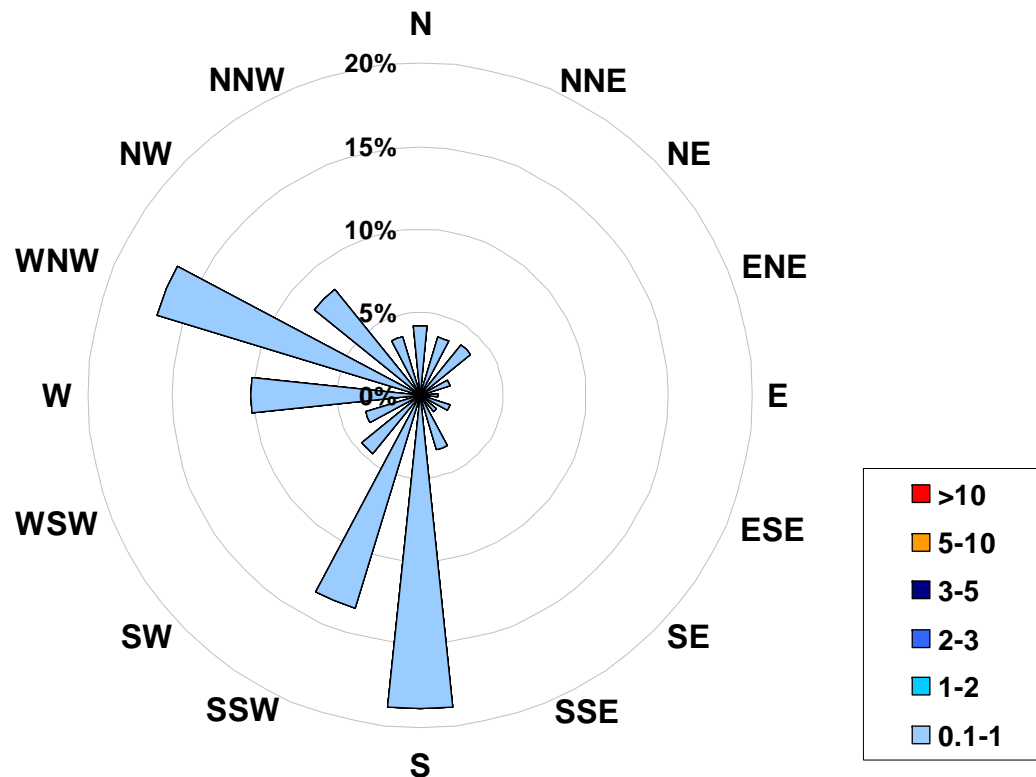


Figure 59. PASZA - Valleyview Hydrogen Sulphide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Hydrogen Sulphide (in ppb) Located at the Valleyview Site for June 2008



Calms: 0%

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

PASZA - Valleyview Relative Humidity Monthly Summary

Station: Valleyview
 Station Owner: PASZA

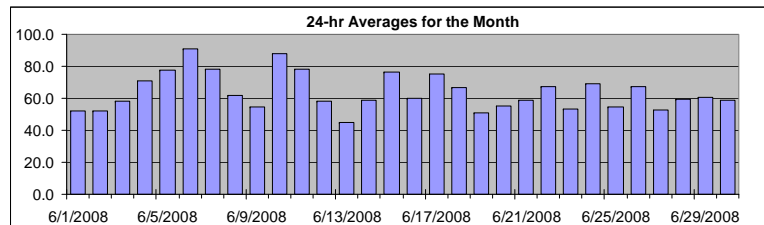
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	98.6 %	18-Jun	5:00 6:00
Maximum 24-hr Value:	90.9 %	6-Jun	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	97.6	95.4	85.8	66.3	42.2	27.3	24.1	63.7 %	66.3 %

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		
1-Jun-08	79	80	78	74	71	74	67	62	59	54	45	43	41	38	34	30	28	28	28	30	41	51	57	63	52.2	79.5
2-Jun-08	72	83	89	93	95	90	81	73	63	57	46	30	25	25	23	21	20	22	23	26	31	46	55	63	52.1	94.7
3-Jun-08	70	77	85	86	89	85	79	69	58	53	45	41	36	30	28	26	36	31	29	41	61	71	80	86	58.1	88.5
4-Jun-08	84	89	93	93	94	92	85	78	66	58	52	50	47	43	45	56	62	63	65	67	73	76	87	89	71.2	93.9
5-Jun-08	92	95	96	97	97	98	93	82	70	52	43	43	42	42	47	74	84	90	91	88	91	83	86	90	77.7	97.8
6-Jun-08	93	95	93	94	91	91	91	90	89	88	89	91	90	88	86	85	87	94	94	93	93	92	91	92	90.9	94.5
7-Jun-08	92	92	91	90	90	90	91	93	90	84	76	69	68	69	64	59	56	56	60	68	69	77	91	95	78.4	95.1
8-Jun-08	96	97	94	78	74	73	67	63	57	55	46	41	39	40	37	39	43	40	45	54	64	74	79	91	62.0	96.9
9-Jun-08	67	71	64	82	91	93	78	64	55	48	33	29	27	27	28	30	31	32	34	45	57	70	79	84	54.8	92.9
10-Jun-08	91	83	79	91	92	93	95	95	93	88	86	92	88	79	68	66	82	89	87	91	92	95	97	96	87.9	97.2
11-Jun-08	96	96	95	95	96	97	95	91	87	83	79	73	65	58	51	53	46	56	65	64	70	82	88	94	78.1	96.6
12-Jun-08	96	97	97	98	98	97	89	77	68	59	51	43	37	33	28	25	25	25	33	33	37	45	50	62	58.5	98.1
13-Jun-08	72	73	69	68	58	58	51	46	43	39	41	35	29	28	29	28	27	27	28	35	39	45	51	63	45.0	73.3
14-Jun-08	66	75	78	87	94	89	72	62	56	52	51	48	45	43	43	39	36	40	44	49	55	59	63	70	59.0	93.6
15-Jun-08	76	78	80	82	83	82	84	84	82	82	78	75	82	77	72	66	62	55	53	62	71	79	89	94	76.1	93.7
16-Jun-08	95	94	92	95	95	92	85	77	59	49	46	42	36	36	33	33	34	33	32	36	51	64	68	65	60.0	95.2
17-Jun-08	65	66	78	84	88	89	85	83	77	72	76	71	75	91	83	68	62	56	55	56	67	78	90	94	75.4	93.7
18-Jun-08	96	97	98	98	98	99	94	80	71	65	60	56	50	44	39	36	36	39	48	54	53	57	61	70	66.6	98.6
19-Jun-08	70	77	75	77	86	87	77	58	48	43	38	34	32	31	28	25	25	24	24	28	33	52	63	81	50.6	87.4
20-Jun-08	78	79	83	86	87	84	76	63	48	44	37	33	31	29	29	28	29	29	36	42	47	58	77	87	55.1	87.3
21-Jun-08	93	94	97	97	98	92	80	70	60	47	40	34	30	27	24	24	27	30	39	48	55	62	67	72	58.7	97.6
22-Jun-08	78	84	87	90	90	90	66	55	70	83	86	84	79	71	68	62	44	38	31	29	33	45	70	77	67.0	90.2
23-Jun-08	78	89	92	93	93	85	75	71	59	41	28	27	27	26	24	23	25	24	26	27	38	57	69	89	53.5	92.8
24-Jun-08	93	92	95	96	96	91	88	83	75	63	54	56	42	33	33	32	36	43	57	75	73	82	84	89	69.1	96.0
25-Jun-08	90	92	94	95	93	86	74	59	53	45	39	34	31	30	27	27	27	30	33	35	35	46	60	70	54.4	95.0
26-Jun-08	66	68	67	56	61	73	86	91	88	85	81	71	60	49	67	76	78	60	50	52	52	54	58	61	67.2	90.5
27-Jun-08	59	64	77	86	85	76	68	58	48	47	45	43	41	39	35	33	31	26	25	29	37	56	74	79	52.6	86.2
28-Jun-08	82	86	87	92	95	91	83	71	58	51	48	42	37	33	30	27	33	43	40	47	53	61	65	75	59.6	95.2
29-Jun-08	81	93	88	96	96	92	81	71	60	44	40	40	38	37	34	33	33	34	35	40	54	70	77	88	60.7	96.3
30-Jun-08	94	96	97	97	97	93	84	70	50	42	41	33	30	29	29	33	36	37	36	36	42	58	75	80	58.9	97.5
Hourly Avg	81.9	85.0	86.3	88.2	89.0	87.4	80.7	73.0	65.4	59.1	54.0	50.1	46.6	44.2	42.2	41.9	42.6	43.1	44.8	49.3	55.5	64.9	73.4	80.2		
Hourly Max	96.1	97.2	97.8	98.2	98.3	98.6	95.5	95.4	93.2	88.3	88.7	91.6	90.5	91.3	85.8	85.0	87.1	93.6	93.6	93.4	93.0	95.2	97.2	96.2		

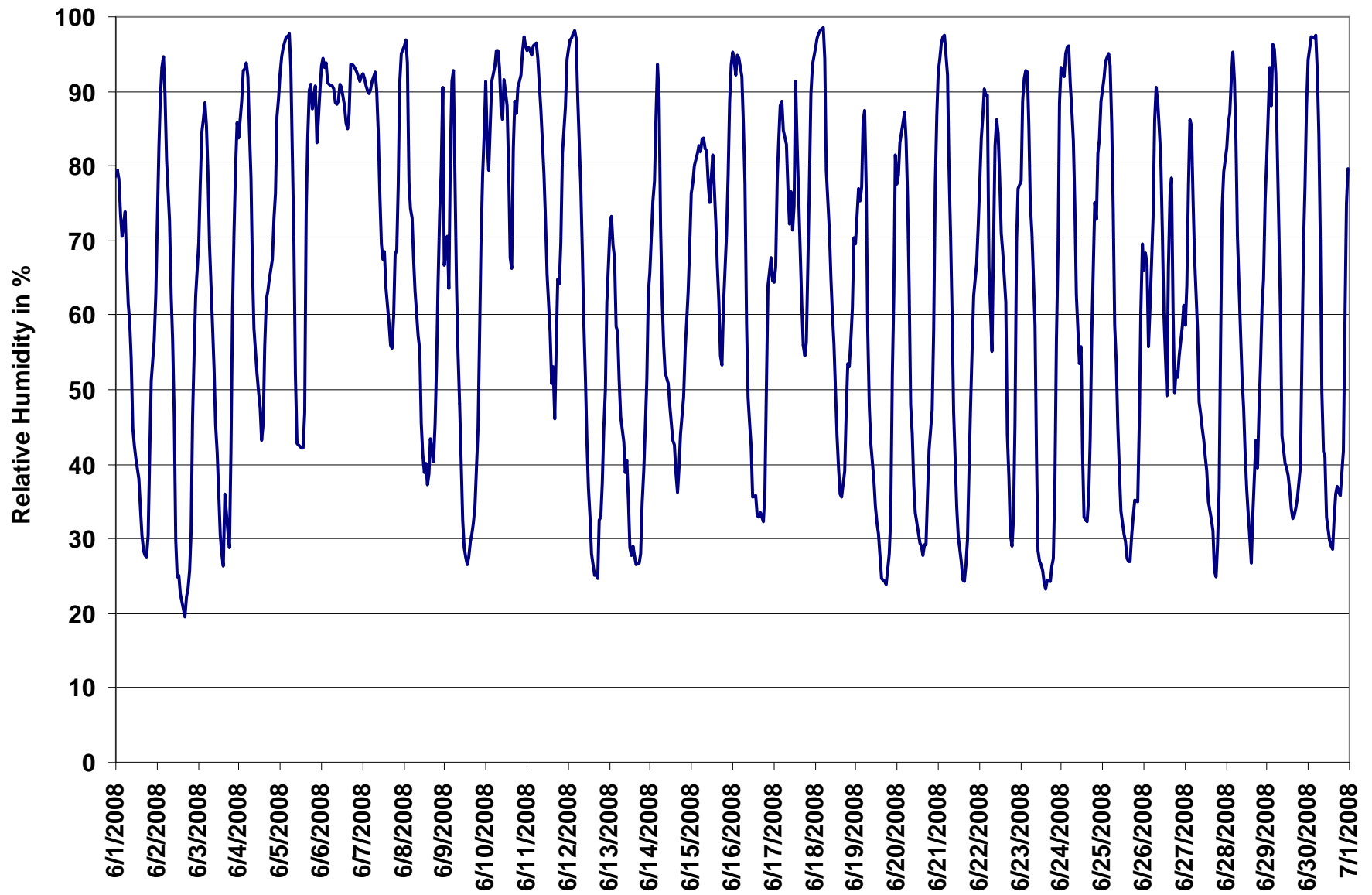


Figure 60. PASZA - Valleyview Relative Humidity 1-hr Average Monthly Trend

PASZA - Valleyview Temperature Monthly Summary

Station: Valleyview
 Station Owner: PASZA

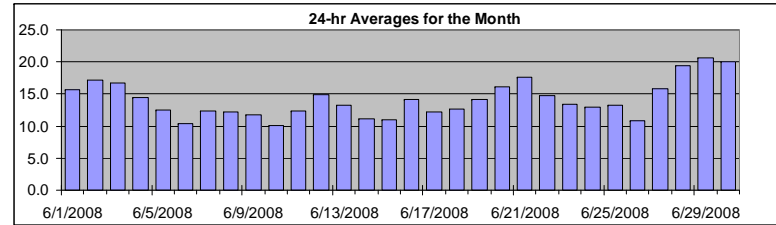
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	28.3	°C	28-Jun	14:00 15:00
Maximum 24-hr Value:	20.7	°C	29-Jun	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	27.2	24.0	17.6	13.4	9.9	7.2	5.1	14.1 °C	13.4 °C

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			0:00
1-Jun-08	8	8	8	9	9	9	10	11	13	15	17	18	19	20	21	22	22	23	23	22	20	17	15	14	15.6	22.9	
2-Jun-08	12	10	8	7	6	8	10	13	16	18	21	22	23	24	24	24	25	24	24	23	21	18	17	15	17.1	24.5	
3-Jun-08	14	12	11	10	9	10	12	14	17	18	20	21	22	23	23	24	22	23	23	20	16	14	14	13	16.8	23.5	
4-Jun-08	11	10	9	9	9	9	11	13	15	17	18	19	19	21	20	18	18	16	16	15	15	14	13	12	14.5	20.5	
5-Jun-08	11	10	10	9	7	8	10	12	14	16	18	19	19	20	18	13	11	11	11	11	11	11	11	10	12.6	19.8	
6-Jun-08	10	10	10	9	9	9	9	9	9	10	10	10	10	11	12	12	12	12	11	11	11	11	11	11	10.5	12.2	
7-Jun-08	11	11	10	10	10	9	9	9	10	11	12	13	14	14	15	15	16	16	16	15	14	13	11	11	12.4	16.1	
8-Jun-08	10	10	10	10	9	9	10	10	10	12	14	13	14	14	16	16	15	15	15	15	13	11	10	9	12.1	15.9	
9-Jun-08	9	9	9	7	6	6	7	8	10	13	14	15	16	16	17	17	17	16	16	15	13	11	9	8	11.8	17.0	
10-Jun-08	7	8	9	8	8	8	8	9	10	11	11	10	11	12	14	14	12	11	11	11	11	10	10	9	10.2	14.1	
11-Jun-08	9	9	9	9	9	8	9	9	10	11	12	13	15	16	17	17	18	16	15	15	15	12	11	9	12.3	17.7	
12-Jun-08	8	8	7	6	5	6	8	11	14	16	18	19	20	21	21	22	22	22	21	20	18	17	15	13	15.0	22.5	
13-Jun-08	12	11	12	12	11	11	12	12	13	13	13	13	15	15	15	16	16	16	16	16	15	14	12	11	9	13.2	16.5
14-Jun-08	8	7	6	4	4	4	7	10	11	12	12	13	14	15	15	16	16	16	16	15	15	14	13	12	11	11.2	16.5
15-Jun-08	10	10	10	9	9	9	9	9	10	10	11	12	11	12	12	13	14	15	15	14	13	10	9	8	11.0	15.2	
16-Jun-08	8	8	9	8	8	8	10	12	14	15	16	17	17	18	19	19	20	20	20	20	17	14	12	12	14.1	20.3	
17-Jun-08	12	12	11	11	10	10	11	11	12	13	13	14	13	10	11	14	15	16	16	16	15	13	12	10	9	12.3	15.8
18-Jun-08	8	7	6	6	5	5	8	11	13	14	15	15	15	17	17	18	18	18	17	15	14	13	13	12	12.6	18.4	
19-Jun-08	11	10	10	9	9	8	10	11	13	14	15	16	17	18	18	19	20	20	20	19	18	14	11	9	14.2	19.9	
20-Jun-08	9	9	9	9	8	9	11	13	17	18	19	20	21	22	22	23	23	23	23	22	20	19	17	14	12	16.2	23.1
21-Jun-08	10	10	9	8	7	8	11	13	16	20	21	23	24	25	26	26	26	26	25	23	21	19	18	17	16	17.5	25.8
22-Jun-08	15	13	13	13	12	13	16	17	15	14	14	14	15	16	16	17	19	19	19	19	18	16	14	10	8	14.8	18.9
23-Jun-08	7	6	5	4	4	5	7	9	12	15	17	18	18	19	20	21	21	21	21	21	20	19	15	12	9	13.5	20.8
24-Jun-08	8	8	7	6	6	7	8	10	12	15	16	16	18	20	21	21	20	18	16	13	13	12	11	10	13.0	21.2	
25-Jun-08	9	8	7	7	6	7	10	12	13	15	16	17	18	18	19	19	19	18	16	15	15	14	11	10	13.3	18.7	
26-Jun-08	10	9	9	11	10	9	9	8	8	9	9	10	12	14	10	9	11	14	15	14	14	13	12	11	10.9	15.0	
27-Jun-08	11	10	8	6	6	7	10	14	15	16	17	18	20	20	21	22	23	23	23	22	22	18	14	12	15.8	23.2	
28-Jun-08	11	10	10	8	8	8	10	14	18	21	23	25	26	27	28	28	27	26	27	25	24	22	20	18	19.4	28.3	
29-Jun-08	16	14	14	12	11	12	14	17	20	22	23	24	25	25	26	27	28	28	28	27	26	22	19	17	20.7	27.8	
30-Jun-08	16	15	14	13	12	13	15	19	22	23	23	25	25	26	26	26	25	25	24	23	22	19	16	14	20.0	26.2	
Hourly Avg	10.4	9.7	9.2	8.6	8.1	8.4	10.0	11.8	13.4	14.8	15.9	16.8	17.7	18.3	18.7	19.0	19.0	18.9	18.5	17.6	16.3	14.4	12.7	11.4			
Hourly Max	16.1	14.7	13.7	13.0	12.5	12.9	15.7	18.6	21.8	23.0	23.5	24.9	26.3	27.1	28.3	28.3	27.5	27.8	27.6	27.2	25.5	21.8	19.9	17.6			

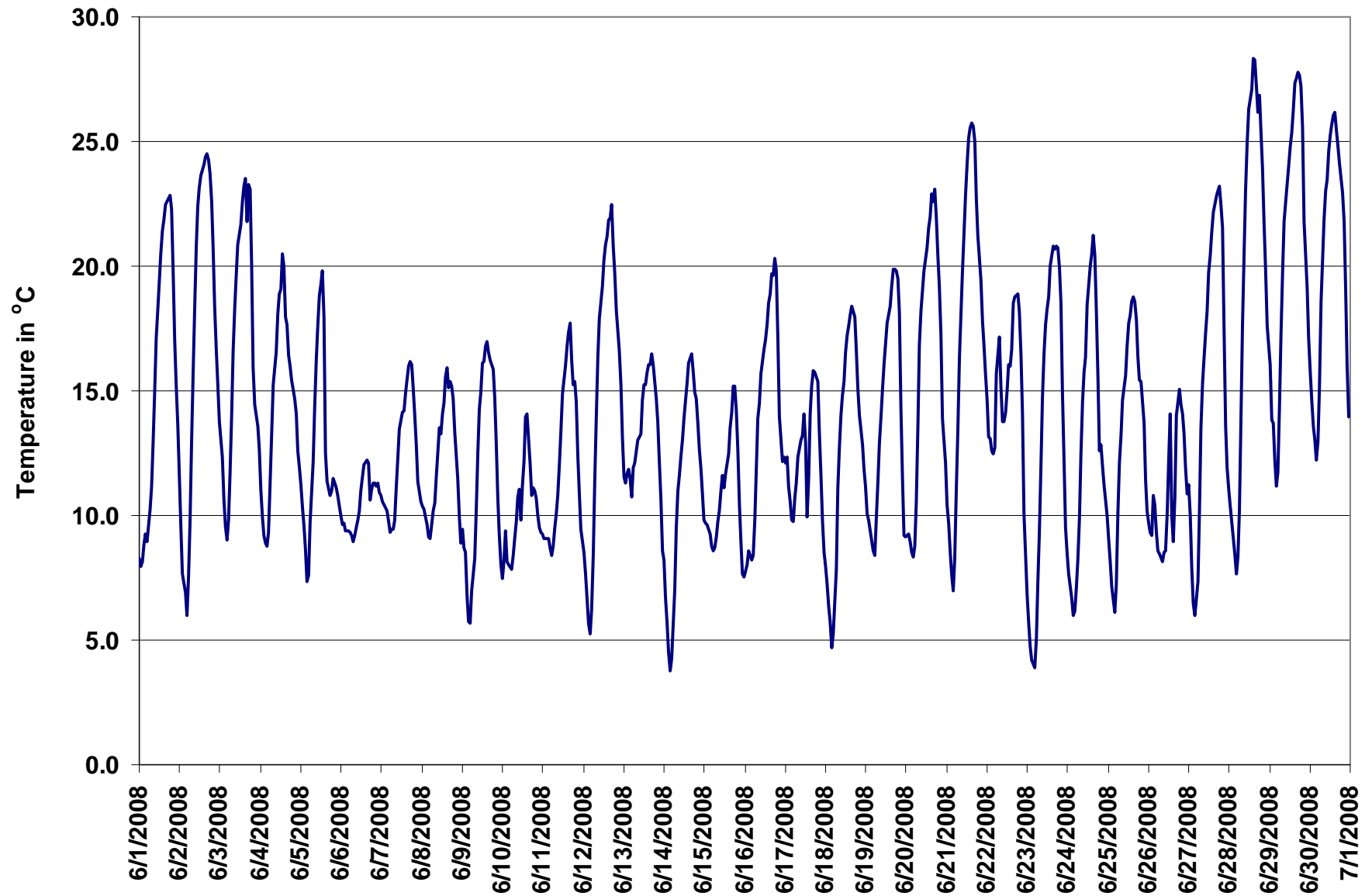


Figure 61. PASZA - Valleyview Temperature 1-hr Average Monthly Trend

PASZA - Valleyview Scalar Wind Speed Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

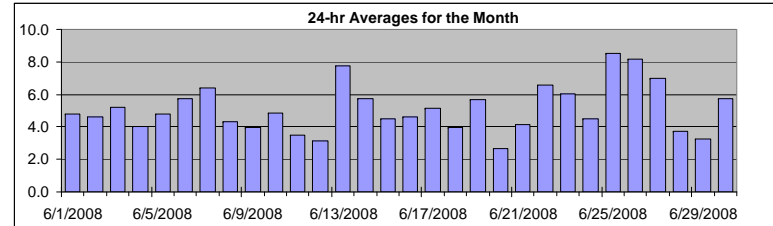
Wind Speed (WSs)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	17.0	km/hr	5-Jun	15:00 16:00
Maximum 24-hr Value:	8.5	km/hr	25-Jun	

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	14.7	11.6	6.9	4.2	2.7	1.6	1.1	5.1 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	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-Jun-08	2	3	3	7	4	2	2	6	4	7	12	9	7	5	5	4	3	3	3	5	5	5	4	4	4.8	11.6	
2-Jun-08	2	1	2	2	2	3	3	5	6	4	5	5	5	4	5	6	6	8	7	6	7	5	7	7	4.6	7.8	
3-Jun-08	4	2	3	2	4	5	7	6	4	5	4	4	5	5	7	8	6	7	7	13	9	3	3	2	5.2	12.7	
4-Jun-08	3	3	3	4	3	2	2	2	5	5	3	4	4	5	3	5	6	5	7	3	3	6	7	3	4.0	7.5	
5-Jun-08	3	4	3	2	1	2	3	4	3	3	3	4	4	5	11	17	11	7	5	4	5	7	3	2	4.8	17.0	
6-Jun-08	3	2	2	5	6	4	4	9	7	4	5	5	3	8	9	8	9	10	4	2	5	6	7	10	5.7	10.0	
7-Jun-08	10	9	8	7	6	7	3	3	7	8	12	11	8	9	8	6	5	4	3	5	7	3	2	3	6.4	12.0	
8-Jun-08	3	2	4	10	9	3	3	6	7	4	7	9	6	5	4	5	4	2	2	2	2	1	2	2	4.3	10.1	
9-Jun-08	2	2	2	2	1	2	1	1	2	3	6	9	5	8	7	8	8	5	4	6	4	3	2	2	4.0	9.0	
10-Jun-08	2	5	7	8	7	8	6	5	6	7	4	3	4	7	3	6	6	4	3	4	3	2	2	5	4.9	8.5	
11-Jun-08	5	4	4	3	4	3	2	2	3	2	2	3	3	4	5	5	5	5	6	5	4	3	3	2	3.5	5.5	
12-Jun-08	2	2	1	2	1	2	3	3	3	3	4	4	4	4	4	4	3	3	2	4	8	4	3	2	3.1	7.8	
13-Jun-08	3	2	2	2	7	3	6	10	8	14	10	9	14	14	12	11	12	7	9	8	7	8	5	5	7.7	13.8	
14-Jun-08	6	3	3	3	2	3	3	3	4	6	7	6	6	8	7	8	7	9	9	11	10	8	4	3	5.8	11.0	
15-Jun-08	2	2	3	5	4	6	8	7	7	7	7	6	6	5	6	6	4	4	3	3	3	2	1	2	4.5	7.8	
16-Jun-08	2	3	2	4	4	5	4	4	6	9	6	6	9	6	8	6	6	5	3	1	2	3	4	4	4.6	9.0	
17-Jun-08	6	5	5	4	4	4	3	4	2	3	8	3	5	4	7	9	5	7	8	11	8	5	3	3	5.2	10.6	
18-Jun-08	2	2	3	1	1	2	3	3	3	4	3	5	5	4	5	5	5	7	7	5	8	7	3	3	4.0	7.6	
19-Jun-08	6	3	3	3	4	3	3	9	11	11	12	11	9	8	7	7	4	6	5	3	2	1	2	2	5.7	11.5	
20-Jun-08	2	1	2	2	2	3	3	2	2	3	4	4	4	4	4	3	3	3	2	3	2	1	3	2	2.7	3.9	
21-Jun-08	2	2	1	1	1	1	2	3	3	4	4	5	6	7	9	9	6	4	6	5	8	6	3	3	4.2	8.8	
22-Jun-08	3	3	2	1	2	2	5	4	8	8	6	6	7	10	12	10	15	12	15	12	7	3	3	2	6.5	15.0	
23-Jun-08	3	2	3	2	4	4	4	3	4	6	11	12	10	8	8	11	11	12	11	8	1	3	2	2	6.1	12.4	
24-Jun-08	2	1	1	1	2	2	3	2	2	4	3	4	10	7	5	5	7	6	13	14	6	4	3	3	4.5	13.9	
25-Jun-08	3	3	3	3	3	3	3	8	9	11	14	15	13	12	14	15	15	15	16	10	10	3	2	2	8.5	15.6	
26-Jun-08	3	3	3	9	12	12	4	2	5	9	14	11	15	15	14	9	4	9	10	7	8	7	6	7	8.2	15.1	
27-Jun-08	9	4	3	3	3	3	3	3	9	12	14	13	10	12	10	10	9	12	9	7	2	2	2	3	7.0	13.8	
28-Jun-08	4	4	3	2	2	2	2	4	5	5	5	6	5	4	5	7	3	3	3	4	4	3	3	2	3.7	7.3	
29-Jun-08	2	3	2	3	2	2	2	3	3	3	5	4	5	7	7	5	5	4	2	2	2	2	2	1	3.3	7.4	
30-Jun-08	2	2	2	2	2	3	2	3	5	7	5	9	11	13	13	11	10	10	10	6	2	1	1	1	5.7	13.2	
1-hr Average	3.3	2.9	2.9	3.4	3.7	3.6	3.4	4.3	5.2	6.1	6.8	6.8	6.9	7.2	7.5	7.6	6.8	6.5	6.5	5.8	5.0	3.9	3.3	3.1			
Hourly Max	10.3	9.1	8.5	10.1	11.5	11.6	7.8	9.8	11.1	13.6	14.5	14.6	14.7	15.1	14.3	17.0	15.0	15.0	15.6	13.9	9.8	8.2	7.5	9.9			

PASZA - Valleyview Vector Wind Speed Monthly Summary

Station: Valleyview
 Station Owner: PASZA

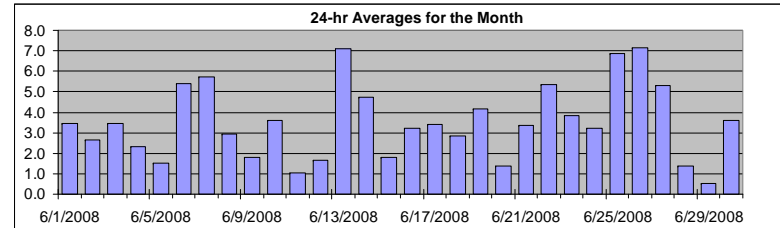
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Maximum 1-hr Average:	15.8	km/hr	5-Jun	15:00 16:00
Maximum 24-hr Value:	7.2	km/hr	26-Jun	



Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	14.1	11.2	6.4	3.5	2.1	0.9	0.4	5.4 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00				
1-Jun-08	2	3	0	6	4	1	2	6	4	7	11	8	7	5	3	3	2	1	2	5	5	5	4			3.5	11.4	
2-Jun-08	1	1	1	1	2	3	3	5	6	4	4	4	3	4	4	3	4	7	7	5	6	5	7	7			2.6	7.4
3-Jun-08	4	2	2	2	3	5	7	6	4	4	3	1	3	4	6	7	6	5	7	11	9	2	0	1			3.5	10.8
4-Jun-08	3	3	2	4	3	2	2	2	4	4	2	2	3	2	3	4	5	4	7	3	3	6	7	3			2.3	7.3
5-Jun-08	3	4	3	2	1	2	3	4	2	1	2	1	3	2	9	16	8	5	4	2	3	6	1	1			1.5	15.8
6-Jun-08	3	1	2	5	6	4	3	8	7	4	4	5	2	8	9	8	9	9	4	2	5	6	7	10			5.4	9.8
7-Jun-08	10	9	8	7	6	7	2	3	7	8	11	11	7	8	7	6	5	3	2	5	7	2	1	2			5.7	11.5
8-Jun-08	2	2	3	10	9	2	3	6	7	4	6	9	5	4	2	4	3	2	2	2	2	1	1	2			2.9	10.1
9-Jun-08	2	2	2	2	1	2	1	1	1	3	6	8	4	7	6	7	7	5	4	6	3	3	0	1			1.8	8.4
10-Jun-08	1	4	7	8	7	8	6	5	6	7	3	2	2	6	2	6	4	4	3	4	2	1	2	5			3.6	8.4
11-Jun-08	5	3	4	3	4	3	2	1	2	1	1	1	1	3	4	3	4	3	5	5	4	3	3	2			1.0	5.1
12-Jun-08	2	2	1	2	1	2	3	3	3	3	3	2	2	2	1	2	1	2	2	4	7	3	3	2			1.7	7.0
13-Jun-08	3	2	1	2	7	3	5	10	8	13	9	8	12	13	11	10	12	7	8	7	6	8	5	5			7.1	13.1
14-Jun-08	6	2	0	3	2	3	3	3	4	5	6	5	5	5	6	7	6	9	9	11	9	8	3	3			4.7	10.9
15-Jun-08	2	2	2	4	4	6	8	7	7	7	5	6	4	5	5	3	3	2	3	2	2	1	2			1.8	7.6	
16-Jun-08	2	2	1	4	4	5	4	4	5	8	5	5	8	4	7	5	5	4	2	1	1	2	3	1			3.2	8.4
17-Jun-08	5	5	4	1	3	4	3	4	1	2	8	1	2	1	7	9	4	6	8	10	7	4	2	3			3.4	10.3
18-Jun-08	2	1	2	0	1	2	3	0	2	3	1	4	2	2	4	4	4	6	7	5	7	7	1	3			2.8	7.3
19-Jun-08	6	3	2	3	3	3	2	9	11	11	11	10	8	7	6	6	2	5	5	3	2	1	1	1			4.1	10.9
20-Jun-08	1	0	2	2	2	3	2	2	1	2	2	2	1	3	2	2	2	1	2	3	2	0	2	2			1.4	2.9
21-Jun-08	2	2	1	1	0	1	1	2	3	4	3	5	5	6	8	9	6	3	2	4	7	5	3	3			3.4	8.7
22-Jun-08	1	1	1	1	2	2	4	3	7	8	6	6	7	10	11	9	15	12	14	12	6	2	3	2			5.3	14.5
23-Jun-08	3	2	3	2	4	4	4	3	3	5	11	12	9	7	7	10	10	11	10	7	1	3	2	2			3.8	11.6
24-Jun-08	1	0	0	0	2	2	2	2	2	3	3	3	9	6	4	4	6	5	12	14	5	2	3	3			3.2	13.7
25-Jun-08	3	2	3	2	3	3	3	8	8	10	14	14	12	12	13	14	14	15	15	9	10	2	2	2			6.9	15.4
26-Jun-08	3	3	3	8	11	11	4	2	4	8	13	10	14	15	12	5	4	6	10	7	8	7	6	7			7.2	14.7
27-Jun-08	9	4	3	3	3	3	3	3	8	11	13	12	9	11	10	9	8	12	9	7	1	2	2	3			5.3	13.2
28-Jun-08	4	4	3	1	2	2	2	3	5	5	5	6	5	1	4	7	3	2	3	3	3	3	1			1.4	6.6	
29-Jun-08	1	1	1	3	2	2	2	3	3	2	4	1	3	6	6	4	4	3	2	1	2	2	2	0			0.5	6.4
30-Jun-08	2	1	2	2	2	3	2	1	5	7	4	8	11	12	13	10	10	10	10	6	2	1	0	0			3.6	12.7
1-hr Vector	1.7	1.2	1.2	1.5	1.7	1.6	1.9	2.6	3.1	3.6	3.8	3.7	3.4	4.1	4.2	4.5	3.3	3.0	2.9	2.9	2.4	1.6	1.3	1.4				
Hourly Max	10.2	9.0	8.4	10.1	11.2	11.4	7.6	9.6	10.7	13.0	14.1	14.0	14.3	14.7	13.4	15.8	14.5	14.7	15.4	13.7	9.6	7.7	7.3	9.8				

PASZA - Valleyview Wind Direction Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	352.7	332.4	292.9	213.1	180.1	35.9	8.7	280 deg

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	0:00	0:00
1-Jun-08	340	343	220	186	188	160	117	189	179	184	186	180	182	195	187	59	51	303	191	165	182	169	182	183	181	S
2-Jun-08	26	1	14	340	202	196	196	192	195	200	173	141	168	147	140	50	76	54	71	78	135	145	156	171	136	SE
3-Jun-08	177	184	164	199	192	185	184	191	188	179	155	157	125	141	169	164	65	167	195	273	294	228	202	206	186	S
4-Jun-08	223	197	192	191	166	178	174	198	323	317	216	298	345	356	254	213	265	256	190	212	193	185	182	168	222	SW
5-Jun-08	170	185	185	189	232	202	187	201	216	189	104	194	189	178	301	306	298	105	331	359	267	351	110	187	256	WSW
6-Jun-08	302	274	301	310	302	273	320	295	297	278	273	295	338	314	314	313	316	356	324	303	309	320	329	319	311	NW
7-Jun-08	323	320	320	311	297	289	254	251	292	306	320	334	304	305	325	348	331	321	273	263	288	250	205	210	307	NW
8-Jun-08	176	173	246	273	289	295	274	291	308	331	310	319	332	324	245	227	217	236	191	157	186	207	36	180	282	WNW
9-Jun-08	254	190	220	180	168	185	194	285	86	18	17	17	68	45	52	53	59	76	114	179	206	261	25	59	62	ENE
10-Jun-08	188	6	25	18	10	17	31	28	18	15	30	194	355	316	273	324	50	31	359	14	331	235	280	304	4	N
11-Jun-08	298	292	290	296	311	346	296	254	299	304	195	193	161	336	351	332	2	203	156	151	175	164	177	175	268	W
12-Jun-08	179	192	229	195	204	190	189	186	189	170	141	169	170	192	261	304	48	182	155	259	284	321	308	246	217	SW
13-Jun-08	172	136	259	292	296	322	293	286	281	275	277	280	294	298	289	296	298	260	277	322	319	283	310	320	290	WNW
14-Jun-08	307	246	273	180	182	194	195	183	234	280	283	309	322	319	316	306	285	308	290	291	291	286	257	265	286	WNW
15-Jun-08	219	199	282	315	325	300	291	293	305	300	314	331	56	75	46	45	121	47	55	63	155	184	193	194	331	NNW
16-Jun-08	192	160	158	185	186	186	193	200	259	281	261	281	280	315	295	293	257	273	227	199	186	195	224	333	253	WSW
17-Jun-08	327	200	242	176	257	176	195	180	214	318	318	7	259	259	321	306	288	279	296	316	335	3	286	275	289	WNW
18-Jun-08	174	142	45	217	227	186	155	295	270	340	312	273	295	285	269	272	260	273	256	256	290	316	200	218	271	W
19-Jun-08	264	234	214	209	189	189	215	277	285	284	286	297	309	292	292	297	285	329	6	56	103	105	280	185	284	WNW
20-Jun-08	201	117	189	182	193	192	180	151	100	80	133	82	197	182	199	214	265	16	42	255	279	250	179	194	179	S
21-Jun-08	199	191	194	195	351	201	158	168	138	161	188	149	168	159	145	129	127	128	170	145	128	97	40	22	144	SE
22-Jun-08	334	333	91	231	191	187	277	286	258	273	290	287	300	297	318	325	307	298	312	318	327	258	208	204	297	WNW
23-Jun-08	205	187	197	203	193	188	190	195	231	264	285	304	301	316	313	307	322	332	342	344	176	193	196	187	293	WNW
24-Jun-08	187	228	183	214	193	189	186	189	176	228	207	225	183	182	190	174	208	257	292	287	295	252	203	195	227	SW
25-Jun-08	191	177	172	170	183	201	208	273	276	270	275	279	287	296	314	309	303	320	318	309	297	247	204	191	287	WNW
26-Jun-08	201	191	217	306	308	311	261	221	279	299	292	279	283	292	328	329	196	287	309	288	276	267	270	272	289	WNW
27-Jun-08	284	259	181	148	162	164	170	225	282	288	300	296	284	293	288	272	293	296	306	338	138	190	197	191	281	WNW
28-Jun-08	193	185	188	198	183	190	189	186	188	186	188	181	186	280	250	290	300	86	26	14	353	339	358	1	219	SW
29-Jun-08	307	48	282	182	180	196	172	160	156	149	335	268	251	322	335	341	17	44	83	152	193	196	189	164	299	WNW
30-Jun-08	182	186	162	197	178	180	183	216	326	359	15	335	335	347	335	8	33	31	29	36	46	222	11	317	360	N
Hourly Avg	253	220	232	239	253	228	215	239	267	280	284	288	283	300	302	314	315	317	308	303	281	259	225	239		

PASZA - Valleyview Standard Deviation of Wind Direction Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: June 1, 2008 to July 1, 2008

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	720 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	89.0	79.1	47.8	27.3	16.3	9.8	7.7

Status Flag Characters

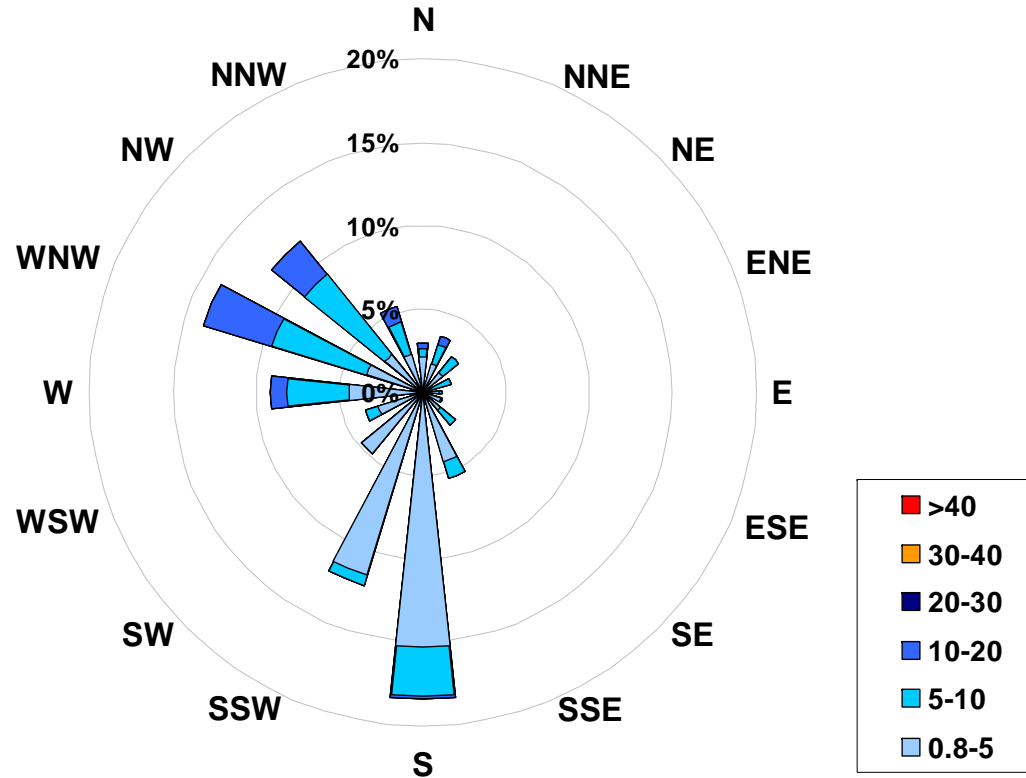
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day Mountain Standard Time

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-Jun-08	61	26	81	39	27	72	38	28	39	14	12	24	34	46	67	73	64	69	38	36	18	11	9	26	80.6		
2-Jun-08	86	62	59	59	15	9	18	14	13	28	31	54	59	52	59	70	57	23	27	19	34	18	12	10	85.8		
3-Jun-08	18	35	16	40	11	10	11	10	21	36	65	80	52	53	36	39	28	57	12	44	18	56	88	51	87.8		
4-Jun-08	20	25	19	11	25	28	34	37	40	48	69	60	56	85	36	27	26	34	10	19	22	15	12	20	84.8		
5-Jun-08	16	13	11	29	47	28	19	14	44	71	71	84	61	76	37	26	76	52	52	90	56	39	66	76	89.9		
6-Jun-08	58	72	31	15	16	19	35	15	13	26	17	17	37	13	13	14	11	24	15	27	14	9	9	8	72.2		
7-Jun-08	9	7	10	11	13	9	44	39	10	16	17	14	20	14	23	26	28	43	36	14	13	38	37	29	43.6		
8-Jun-08	22	12	35	6	11	62	26	16	15	42	56	23	56	52	72	40	26	31	18	22	15	56	79	21	78.7		
9-Jun-08	43	37	30	18	50	14	41	57	73	58	45	29	54	36	44	29	31	30	27	19	21	22	92	86	92.4		
10-Jun-08	67	25	10	6	9	8	14	16	13	11	65	60	89	32	53	21	42	17	31	13	21	59	50	13	88.5		
11-Jun-08	12	23	15	23	25	22	42	44	78	65	72	79	90	62	68	69	55	57	29	21	13	23	30	37	89.7		
12-Jun-08	20	19	54	18	26	22	13	18	36	35	41	61	73	66	77	81	68	65	22	38	37	54	16	36	81.3		
13-Jun-08	11	42	69	61	12	49	49	16	24	17	23	40	27	21	23	28	22	22	19	18	9	21	20	13	69.3		
14-Jun-08	8	47	88	13	14	16	14	32	43	52	41	51	51	63	58	35	37	17	8	9	8	13	40	32	88.2		
15-Jun-08	29	27	38	18	15	18	12	11	16	15	22	45	25	31	34	43	43	45	69	33	47	21	58	29	69.1		
16-Jun-08	25	18	82	12	14	11	10	25	35	25	37	52	29	63	31	57	45	39	31	41	85	48	44	88	88.4		
17-Jun-08	12	26	35	89	48	16	12	17	67	46	18	87	73	82	24	22	47	27	13	15	12	29	32	39	89.1		
18-Jun-08	28	52	54	73	24	20	21	95	69	73	78	44	83	72	44	48	47	33	18	13	18	15	70	29	94.8		
19-Jun-08	15	24	28	22	26	14	44	18	15	17	25	24	38	41	43	47	75	47	41	23	20	65	79	80	80.2		
20-Jun-08	78	85	27	39	30	18	23	19	56	46	71	73	83	60	56	65	65	89	28	50	49	97	29	16	96.6		
21-Jun-08	9	9	19	22	94	70	60	35	28	22	32	24	24	29	19	13	14	49	70	67	24	34	41	34	93.7		
22-Jun-08	60	79	63	62	42	36	45	48	22	10	13	14	13	14	23	19	14	13	14	10	7	53	21	24	78.8		
23-Jun-08	20	35	5	43	8	28	23	28	37	23	20	22	22	37	31	28	20	20	19	18	76	14	19	29	76.1		
24-Jun-08	42	85	77	79	18	14	20	22	24	48	29	42	11	24	25	35	19	32	15	10	26	49	15	8	85.4		
25-Jun-08	11	35	14	26	11	24	25	15	18	22	15	18	22	21	20	20	18	12	9	13	10	48	11	8	47.7		
26-Jun-08	11	8	37	10	14	10	34	32	26	23	13	16	14	14	61	70	13	54	15	13	10	8	7	9	69.7		
27-Jun-08	11	15	30	13	15	8	14	43	22	17	16	19	25	23	22	22	37	14	17	15	60	35	15	11	59.6		
28-Jun-08	10	14	11	70	37	23	16	22	13	14	13	16	22	86	52	26	54	35	16	28	42	59	31	80	85.6		
29-Jun-08	51	86	78	17	23	12	21	13	18	39	55	86	60	49	37	50	41	42	36	26	9	22	59	90	90.4		
30-Jun-08	56	68	53	27	29	23	24	72	32	21	39	26	18	15	16	25	15	15	13	19	47	56	85	87	87.1		

Hourly Max	86	86	88	89	94	72	60	95	78	73	78	87	90	86	77	81	76	89	70	90	85	97	92	90
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1-hr Average Wind Rose (in km/hr) Located at the Valleyview Site for June 2008



Calms: 0%

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	440
5	to	10	211
10	to	20	69
20	to	30	0
30	to	40	0
	>	40	0
Total Non-Zero Values			720

PASZA

Monthly Passive Data Summary

PASZA Passive Stations for June 2008

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
Duplicates					
2a	Bay Tree	0.1	25.8	1.7	
2b	Bay Tree	0.1	26.9	1.6	
10a	Woking	0.2	32.7	0.8	
10b	Woking	0.2	35.6	0.8	
11a	Webber Creek	0.2	31.9	1.8	
11b	Webber Creek	0.2	28.1	2.0	
18a	Saddle Hills	0.2	32.6	0.7	
18b	Saddle Hills	0.1	35.1	0.9	
35a	Jean Cote	0.2	27.5	2.4	
35b	Jean Cote	0.1	29.2	2.4	
51a	Bear Canyon	N/A	29.3	N/A	
51b	Bear Canyon	0.4	30.4	0.3	
49a	Grande Prairie HP	0.1	40.3	3.6	
49b	Grande Prairie HP	0.2	42.3	3.6	
1	Silver Valley	0.1	28.4	1.1	08-27-081-11 W6M
2	Bay Tree	0.1	26.3	1.7	13-16-078-13 W6M
3	Forth Creek	0.1	34.2	1.0	04-13-082-07 W6M
4	Gordondale	0.1	32.8	1.0	04-34-078-10 W6M
5	Boone Creek	0.2	30.1	1.0	01-23-076-11 W6M
7	Steeprock Creek	0.1	34.1	0.3	09-35-072-13 W6M
9	Spirit River	0.2	29.4	2.0	08-12-079-07 W6M
10	Woking	0.2	34.1	0.8	01-13-076-07 W6M
11	Webber Creek	0.2	30.0	1.9	09-36-074-09 W6M
12	Hythe	0.1	34.6	1.5	14-36-072-11 W6M
14	Sylvester	0.1	27.1	0.6	08-06-069-12 W6M
16	Beaverlodge	0.1	38.9	1.1	15-36-071-10 W6M
17	Poplar	0.2	30.6	1.8	13-06-073-08 W6M
18	Saddle Hills	0.1	33.8	0.8	04-25-074-07 W6M
19	Wanham	0.2	33.0	0.9	16-22-077-03 W6M
20	Shaftesbury	0.1	26.0	0.7	04-03-082-23 W5M
21	Eaglesham	0.2	24.4	1.3	16-21-079-25 W5M
23	Bear Lake	0.1	35.1	2.0	15-31-072-06 W6M

Table 1. PASZA Passive Stations for June 2008 (Continued)

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
24	Wembley	0.1	29.0	1.2	12-31-070-08 W6M
25	Pinto Creek	0.0	30.0	0.6	04-24-069-11 W6M
26	Flyingshot	0.1	31.7	0.9	15-36-070-07 W6M
27	Grande Prairie I	0.1	35.2	2.6	08-15-071-06 W6M
28	Clairmont Lake	0.2	39.9	1.3	09-06-073-04 W6M
29	Smoky Heights	0.2	37.3	1.9	04-06-075-02 W6M
30	Fitzsimmons	0.1	28.0	1.1	15-36-072-03 W6M
32	Gold Creek	0.2	12.1	0.7	06-33-067-05 W6M
33	Wapiti	0.1	38.2	1.0	02-25-071-03 W6M
34	Puskwaskau	0.0	25.3	0.4	15-35-074-25 W5M
35	Jean Cote	0.1	28.3	2.4	12-35-079-21 W5M
36	Guy	0.1	27.3	1.9	03-04-076-22 W5M
37	Crooked Creek	0.2	30.6	0.9	16-01-071-26 W5M
39	Clouston Creek	0.1	31.9	0.6	12-01-073-22 W5M
40	McLennan	0.2	29.3	2.2	03-29-077-19 W5M
41	Valleyview	0.2	36.4	0.5	09-30-069-22 W5M
42	Sunset House	0.1	35.4	0.4	05-32-070-19 W5M
43	High Prairie	0.1	29.8	0.9	16-13-074-17 W5M
44	Peavine	0.1	26.5	0.4	03-05-079-15 W5M
45	Gift Lake	0.1	25.1	0.3	10-07-079-12 W5M
46	Little Smoky	0.1	22.8	1.0	12-01-065-21 W5M
47	Kinuso	0.0	22.4	0.4	12-10-073-10 W5M
48	Deer Mountain	0.1	23.3	0.4	15-22-068-09 W5M
49	Grande Prairie HP	0.2	41.3	3.6	17-26-071-06 W6M
50	Clear River	0.1	29.2	1.1	SE-03-084-12 W6M
51	Bear Canyon	0.4	29.9	0.3	SE-28-085-12 W6M
52	Worsley	0.1	28.6	1.8	NE-34-085-07 W6M
53	Hines Creek	0.1	26.9	1.5	SW-09-084-04 W6M
54	Ronan	0.1	26.8	3.5	SE-03-082-04 W6M
55	Cadotte Lake School	0.1	21.9	0.6	NE-23-086-16 W5M
56	Simon Lake Store	0.2	24.3	0.4	SE-32-086-17 W5M
57	Dixonville	0.1	27.0	0.7	SE-14-087-24 W5M
58	Queen Elizabeth Park	0.1	33.4	1.3	NW-19-083-23 W5M
59	Blue Sky	0.1	27.7	2.0	SW-35-081-02 W6M
60	Gerry Lake	0.1	27.0	0.4	SW-22-084-02 W6M
61	Musreau Lake	0.0	30.2	0.3	NE-22-064-05 W6M

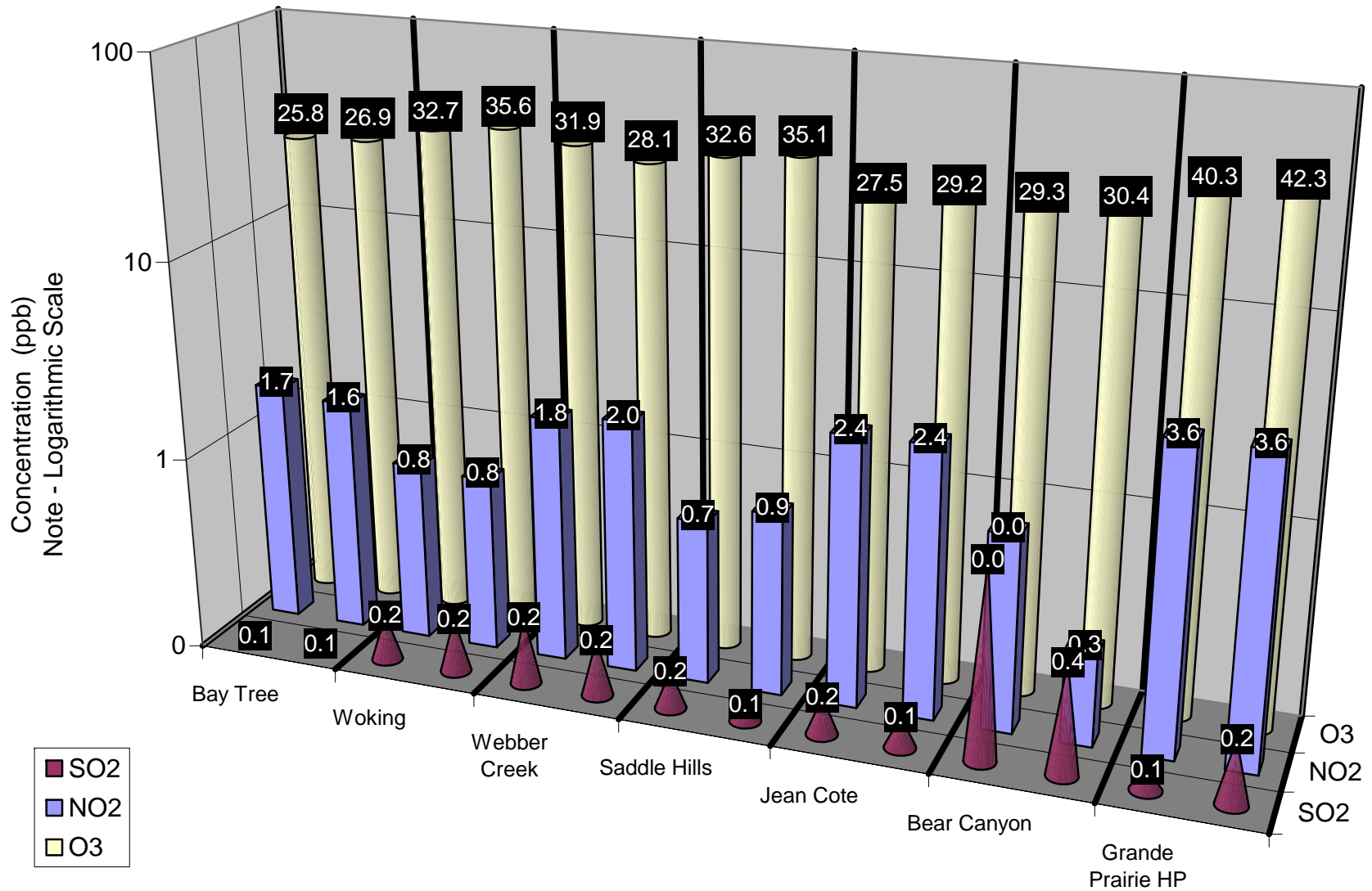


Figure 64. Duplicate Summary Chart

Table 1. Passive Summary Results for May 2008

Stats	Sulphur Dioxide SO ₂	Ozone O ₃	Nitrogen Dioxide NO ₂
	ppb	ppb	ppb
Passive Summary for June 2008 (PASZA Zone)			
Mean	0.1	29.9	1.2
Standard Deviation	0.1	5.2	0.8
Minimum	0.0	12.1	0.3
Minimum At	Pinto Creek (#25)	Gold Creek (#32)	Musreau Lake (#61)
Maximum	0.4	41.3	3.6
Maximum At	Bear Canyon (#51b)	Grande Prairie HP (#49)	Grande Prairie HP (#49)
Comparison between Continuous and Passive monitoring at Beaverlodge (passive #16 Beaverlodge)			
	SO ₂	O ₃	NO ₂
PASZA Beaverlodge station	0.3	30.8	1.9
PASZA Beaverlodge passive	0.1	38.9	1.1
Comparison between Continuous and Passive monitoring at Henry Pirker (passive #49 Grande Prairie HP)			
	SO ₂	O ₃	NO ₂
PASZA Henry Pirker station	0.2	31.5	4.8
PASZA Grande Prairie passive	0.2	41.3	3.6
Comparison between Continuous and Passive monitoring at Spirit River (passive #9 Spirit River)			
	SO ₂	O ₃	NO ₂
PASZA Portable Spirit River station	0.2	29.9	3.4
PASZA Spirit River passive	0.2	29.4	2.0

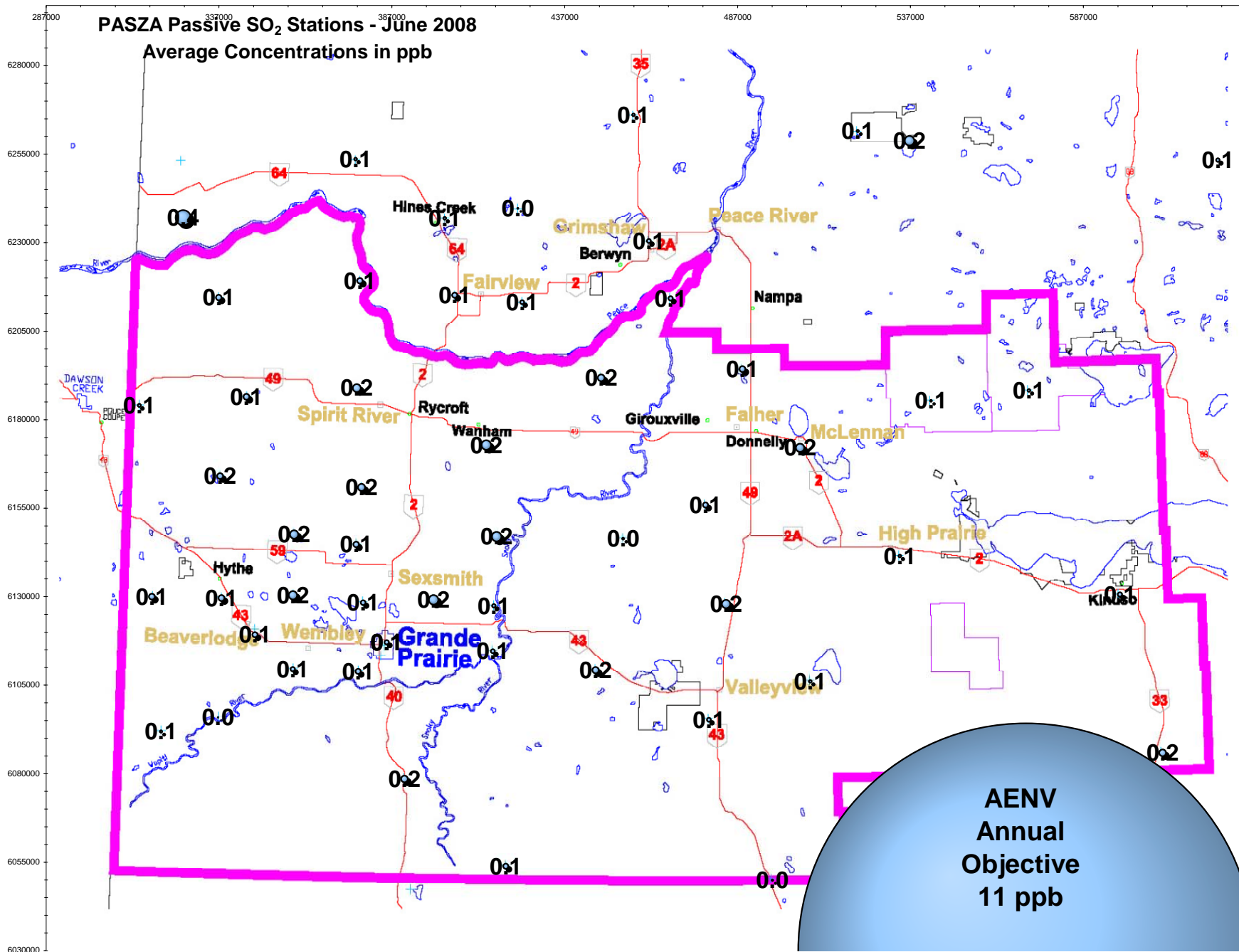


Figure 65. SO₂ Bubble Chart

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

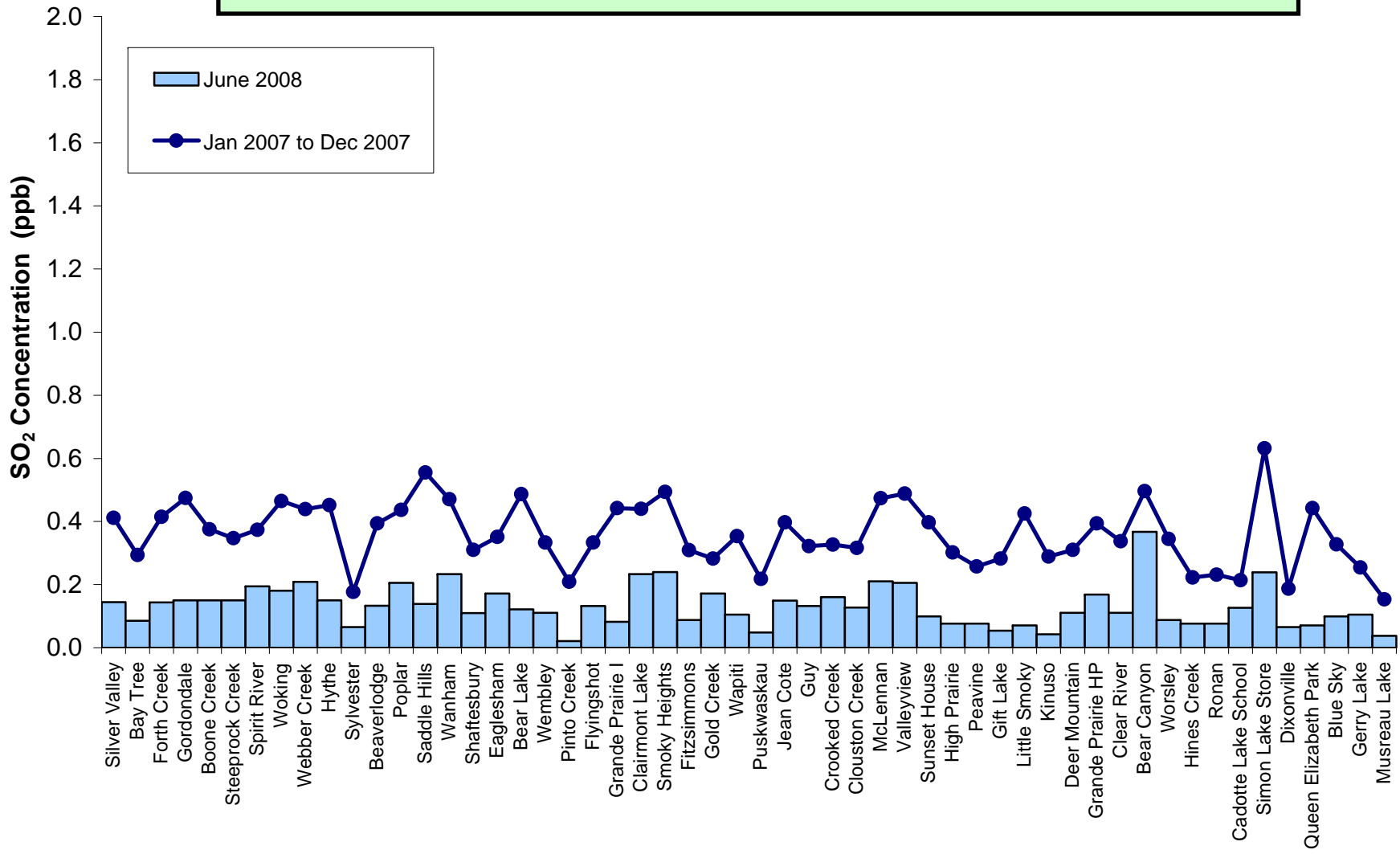


Figure 66. SO₂ Summary Chart

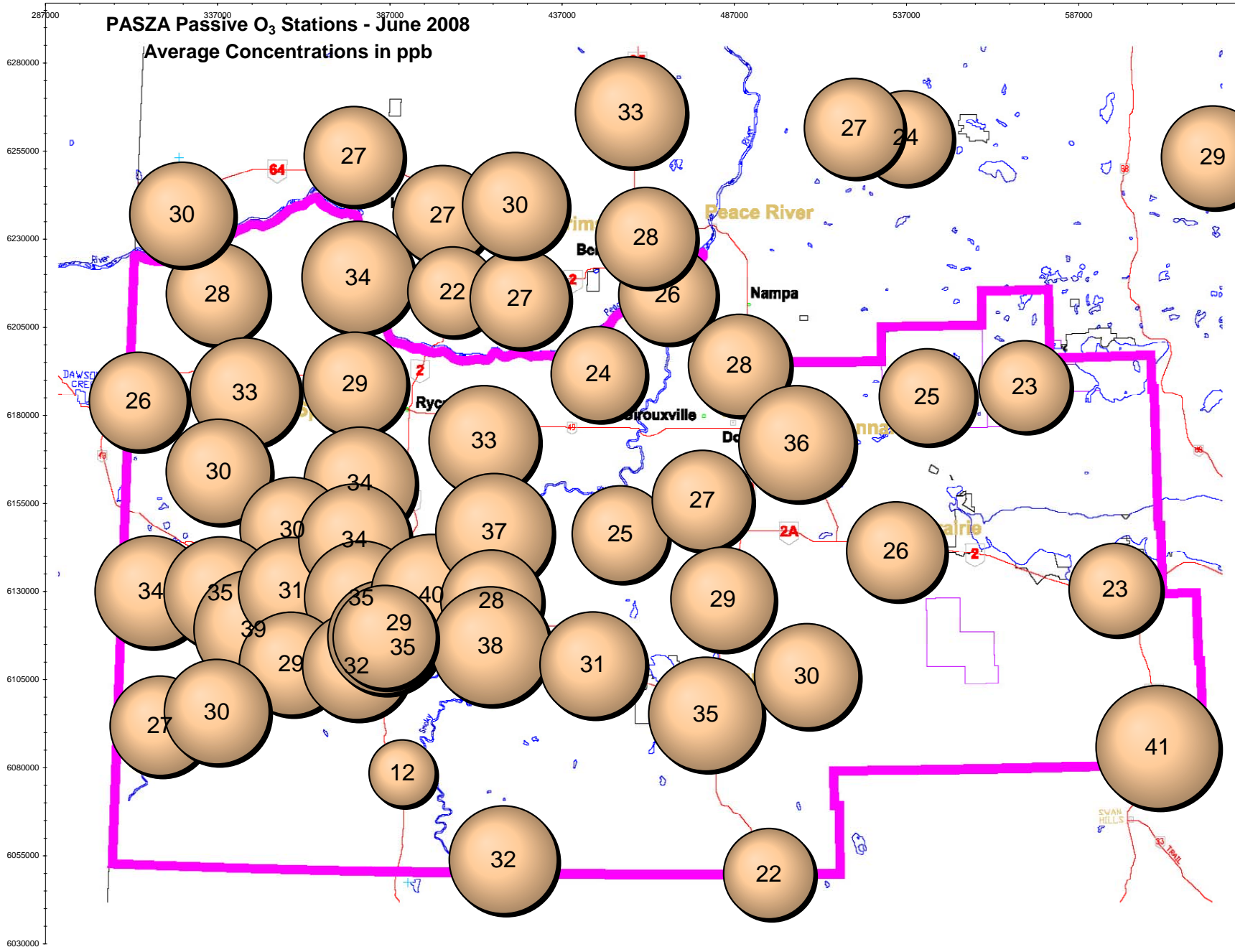


Figure 67. O₃ Bubble Chart

Alberta Ambient Air Quality Objective - No Annual O₃ Objective

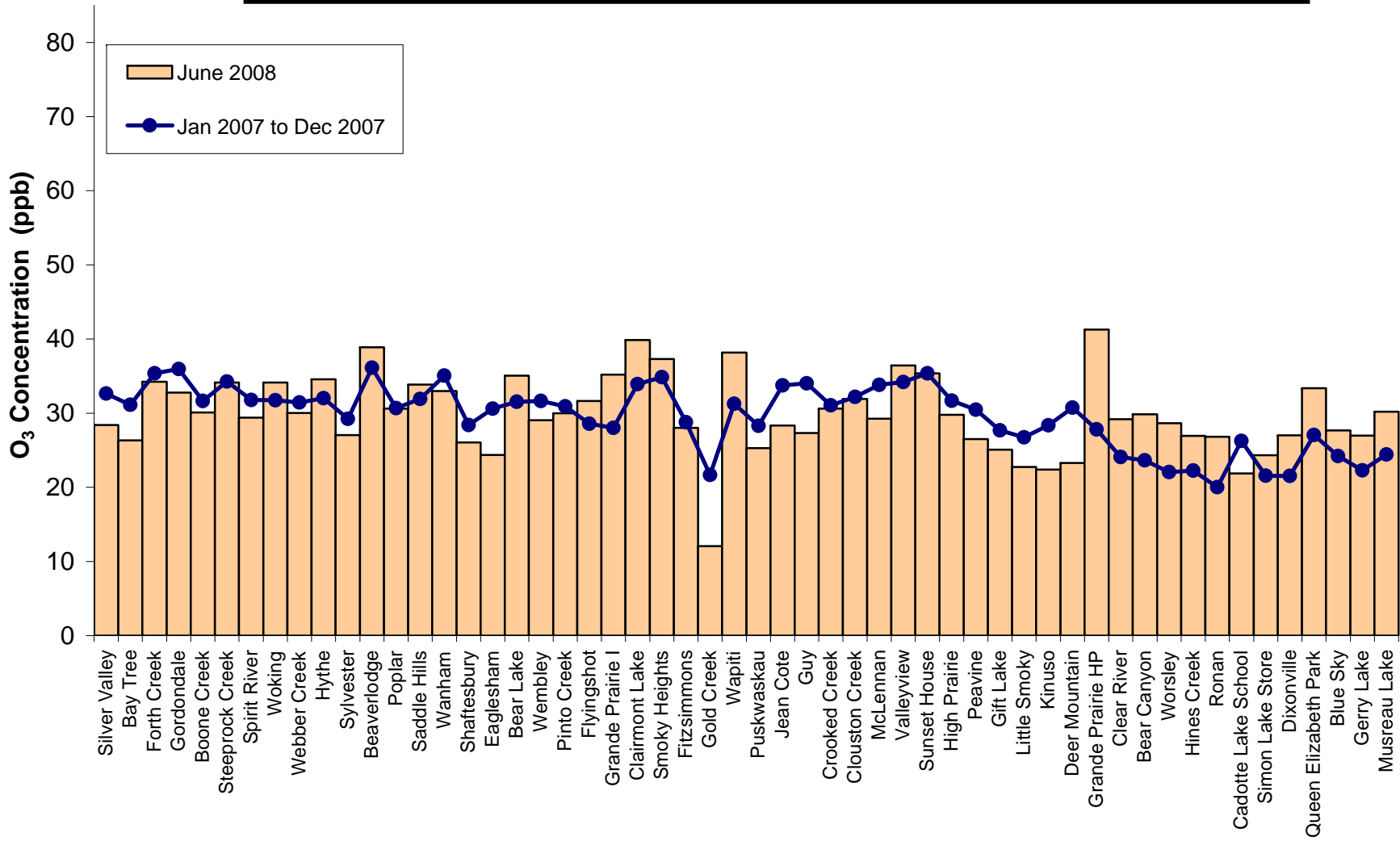


Figure 68. O₃ Summary Chart

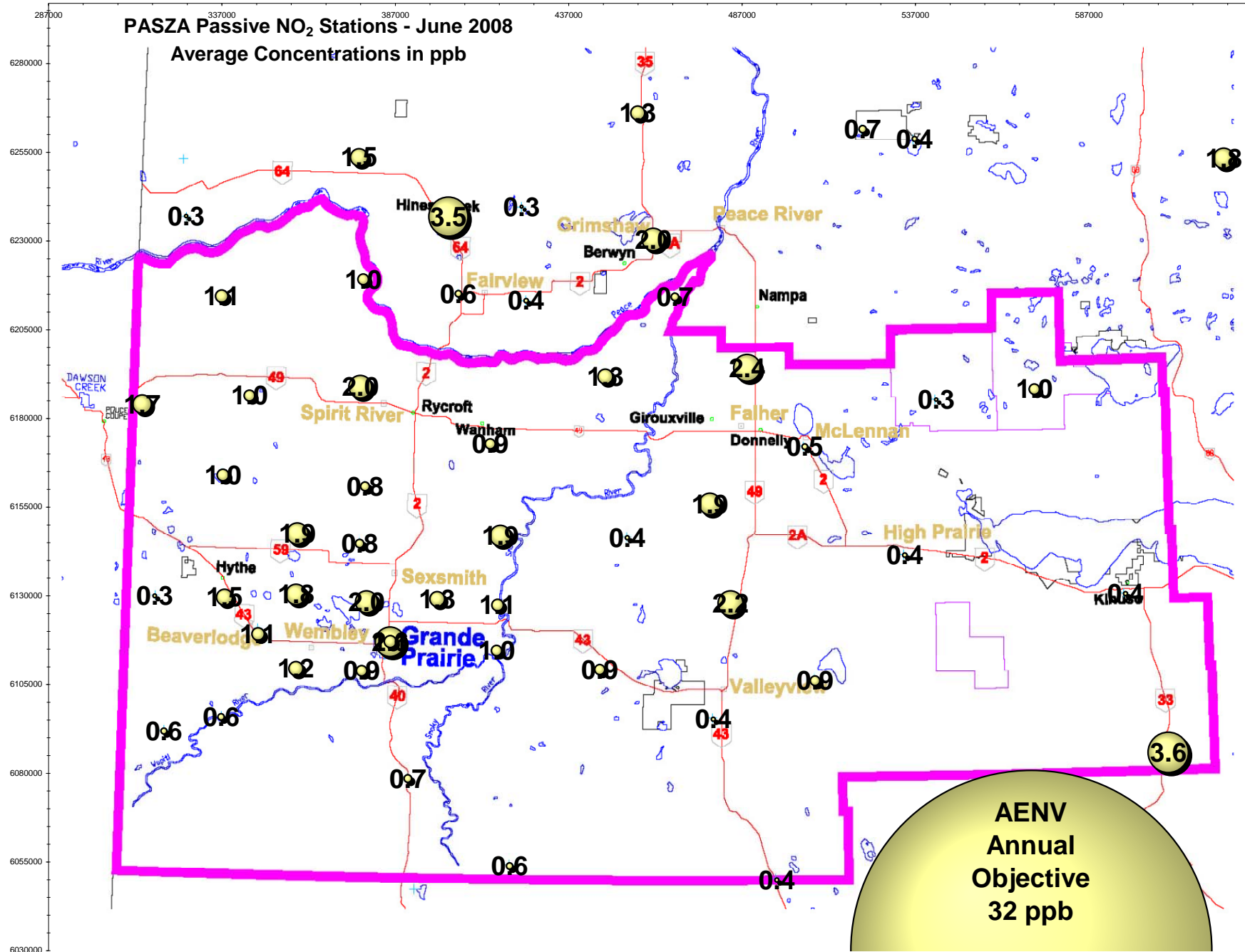


Figure 69. NO₂ Bubble Chart

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

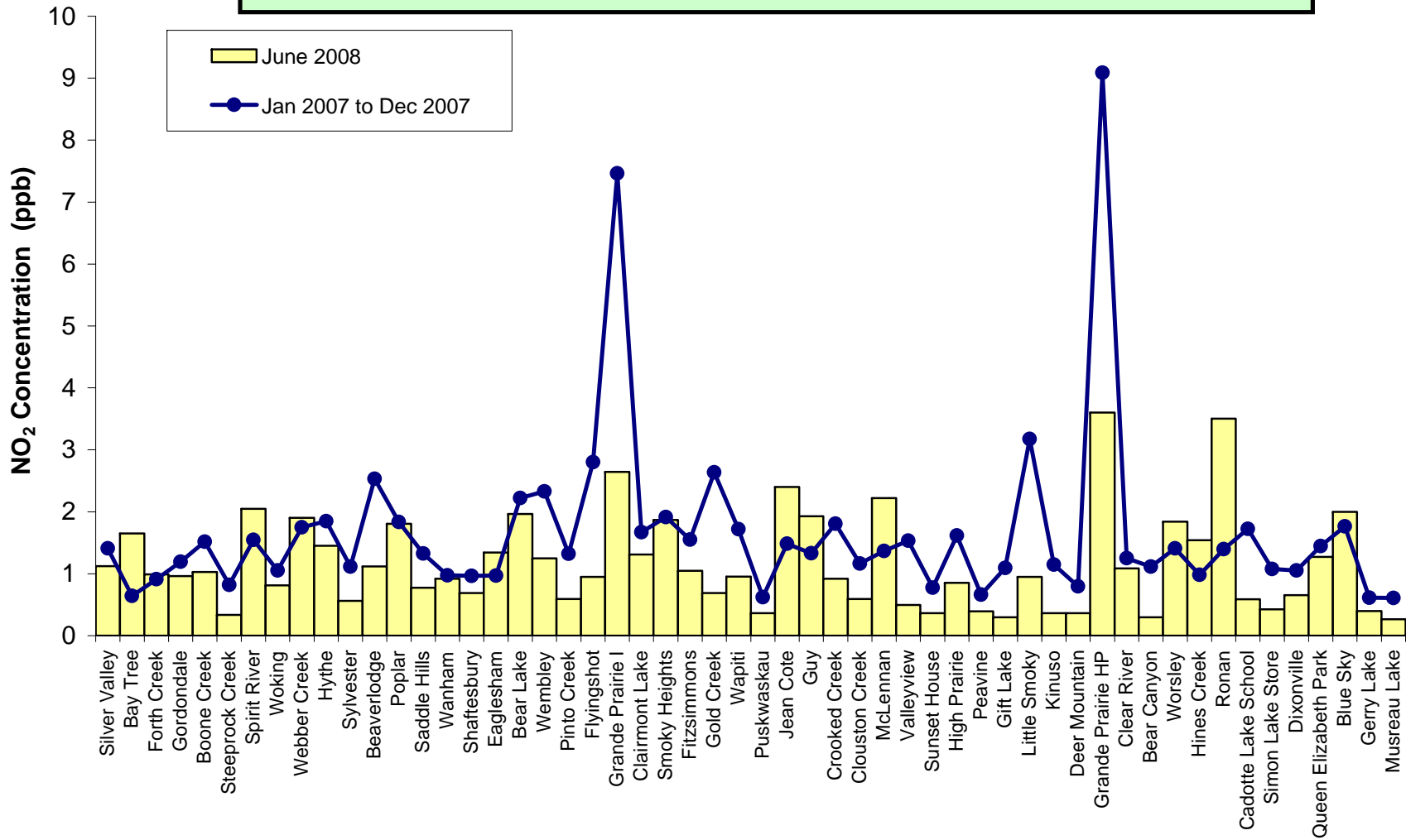


Figure 70. NO₂ Summary Chart

June 2008 Calibration Reports

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

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

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

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

Calibration Date	June 4, 2008	Previous Calibration	May 6, 2008
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)	11:30	End Time (MST)	13:45
Barometric Pressure	0.915 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	1.001323	Calculated slope	1.001323
Calculated intercept	-0.936299	Calculated intercept	-0.936299
Analyzer make	TEI 43C	Analyzer serial #	610816292

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	7.6		7.6	
Coefficient	.800		.800	
Pressure	637.6	mm Hg	637.6	mm Hg
Flow	0.481	lpm	0.481	lpm
Lamp Voltage	44657	Hz	44657	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)
4988	0.00	0.0	0.0	N/A
4988	39.86	398.8	398.6	1.0004
4988	19.89	199.8	201.2	0.9929
4988	9.93	99.9	101.5	0.9845
4988	0.00	0.0	0.0	As Found Zero
4988	39.82	398.4	398.6	As Found Span
Average Correction Factor				0.9926

Calculated value of As Found Response: 398.2 ppb Percent Change of As Found: 0.0%

	before calibration		after calibration	
Auto zero	-0.2	ppb	-0.2	ppb
Auto span	334.1	ppb	334.1	ppb

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

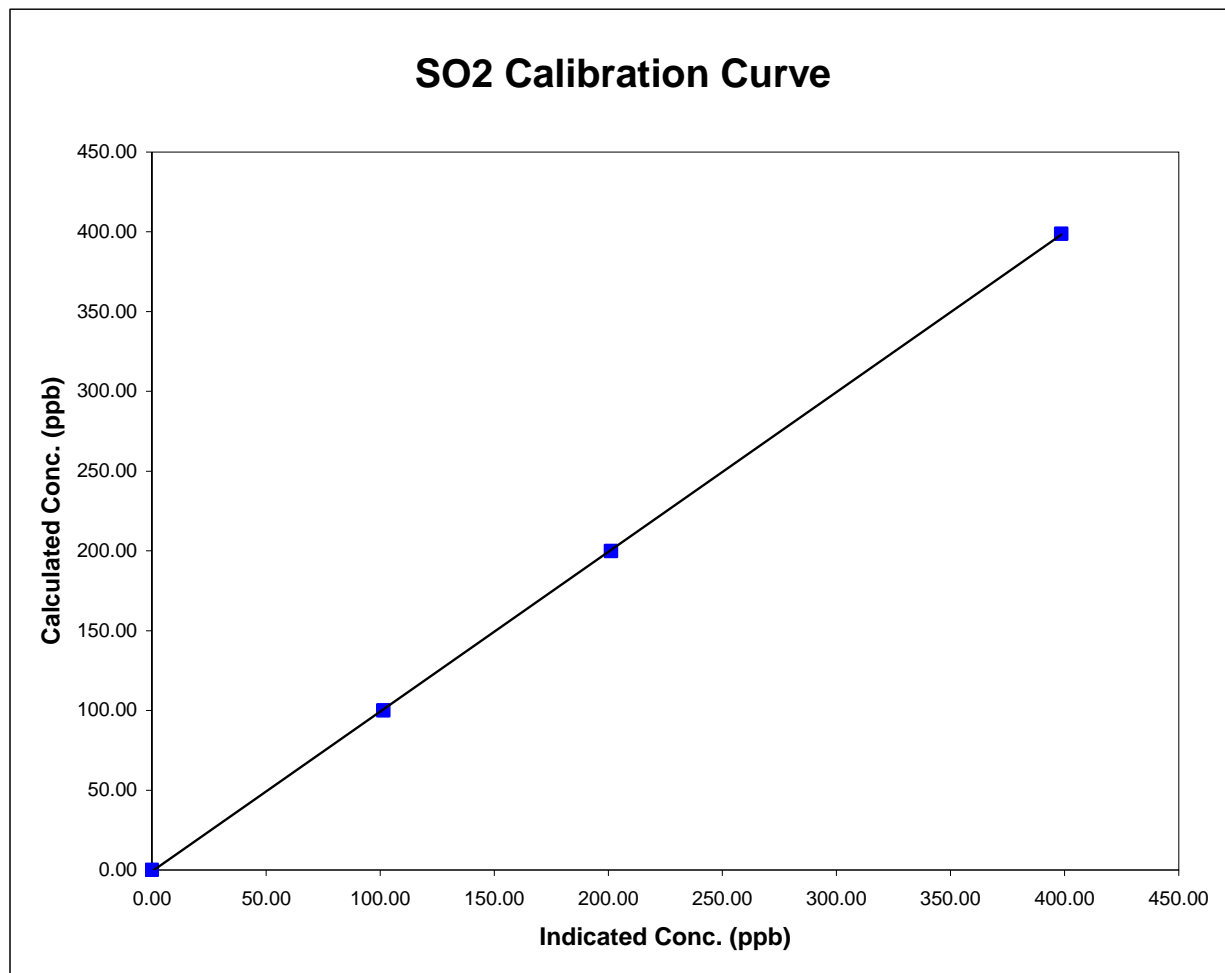
Parameter **SO2**Air Monitoring Network **PASZA**

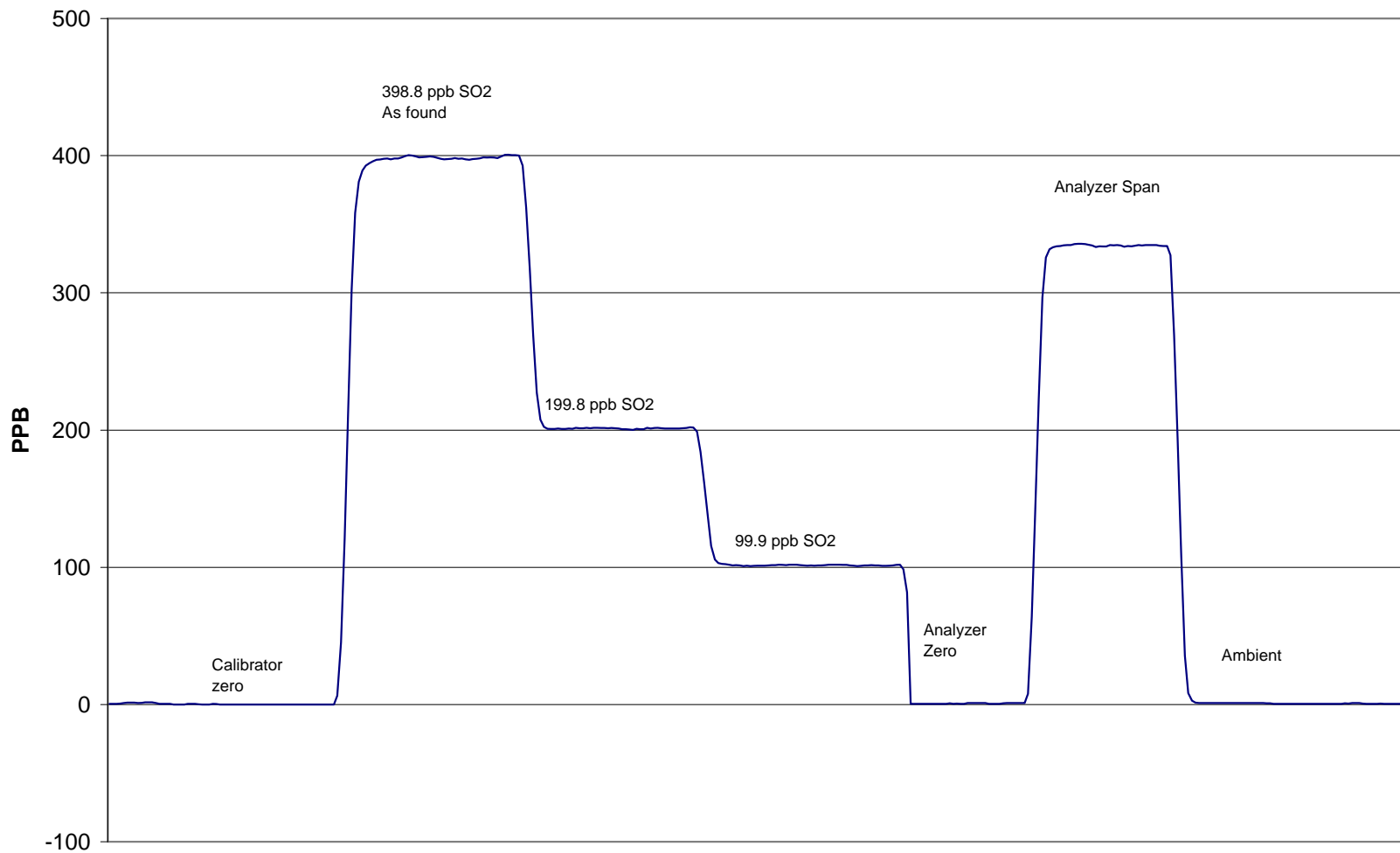
Station Information

Calibration Date	June 4, 2008	Previous Calibration	May 6, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:30	End Time (MST)	13:45
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		
398.8	398.6	1.0004	Correlation Coefficient	0.999972
199.8	201.2	0.9929		
99.9	101.5	0.9845		
			Slope	1.001323
			Intercept	-0.936299



Henry Pirker SO₂ Calibration**June 4, 2008**

Calibration Report

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

**Station Information**

Calibration Date June 4, 2008 Previous Calibration May 6, 2008
 Station Number 1 Station Location Henry Pirker

Reason: Routine Installation Removal Other: _____

Start Time (MST) 11:30 End Time (MST) 15:30
 Barometric Pressure 0.915 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	1.019407	1.018414	1.018011
	Data Offset	0.025816	-1.632066	-1.803434
After	Data Slope	1.007537	1.006633	1.005686
	Data Offset	-0.062223	-2.476862	-2.455456
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	7.9	ppb	7.9	mV
NOx background	8.3	ppb	8.3	mV
NO coefficient	0.694		0.684	
NOx coefficient	0.999		0.997	
Chamber Temp	49.9	Deg C	50.0	Deg C
Cooler Temp	-2.5	Deg C	-2.4	Deg C
Converter Temp	318.0	Deg C	318.0	Deg C
Vacuum	167.9	mm Hg	168.8	mm Hg

Notes: Span Adjusted

Calibration Report



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

Station Information

Calibration Date: June 4, 2008 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	4990	0.00	0.0	0.0	0.0	0.5	0.4	0.0	N/A	N/A
1	4990	39.85	387.4	387.4	0.0	386.3	386.6	-0.3	1.0029	1.0021
2	4990	19.92	194.4	194.4	0.0	196.7	196.9	-0.2	0.9885	0.9877
3	4990	9.91	96.9	96.9	0.0	100.6	100.8	-0.3	0.9632	0.9611
AFZ	4990	0.00	0.0	0.0	0.0	0.5	0.4	0.0	0.0000	0.0000
AFS	4990	39.85	387.4	387.4	0.0	373.5	373.3	0.2	1.0372	1.0380
Average Correction Factor									0.9849	0.9837

As Found Concentrations: NO_x= 371.3 NO= 371.0 As Found Percent Change NO_x= -4.2% NO= -4.2%

GPT Calibration Data

Dilution Flow 4990 ccm Source Gas Flow 39.88 ccm

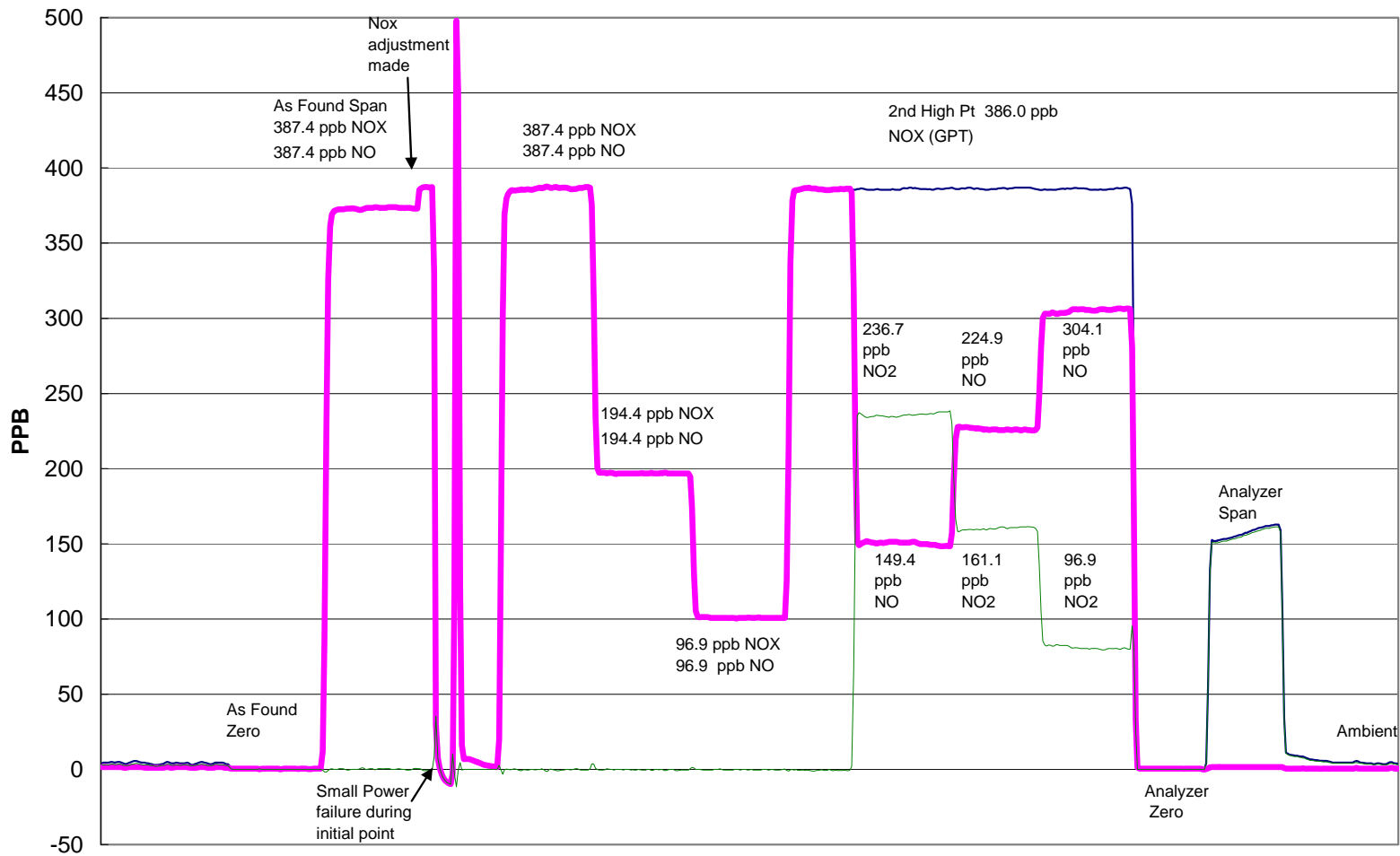
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	386.0	385.7	0.3	385.3	386.0	-0.7	1.0019	0.9993	N/A	N/A
300	386.0	149.4	236.7	385.6	151.0	234.8	1.0010	0.9894	1.0079	99.2%
200	386.0	224.9	161.1	386.2	226.1	160.2	0.9997	0.9948	1.0056	99.4%
100	386.0	304.1	82.0	386.1	304.8	81.4	0.9999	0.9976	1.0077	99.2%
Average Correction Factor							1.0002	0.9940	1.0070	99.3%

AIC Data

Parameter	Previous calibration				Current calibration			
	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	0.9	5.9	-348.6	ppb	0.2	1.0	0.2	ppb
Auto span	165.7	166.1	-0.3	ppb	158.1	159.1	-1.0	ppb

Calibration Performed By: Conor Whiteley

Henry Pirker NOx Calibration



June 4, 2008

Calibration Summary

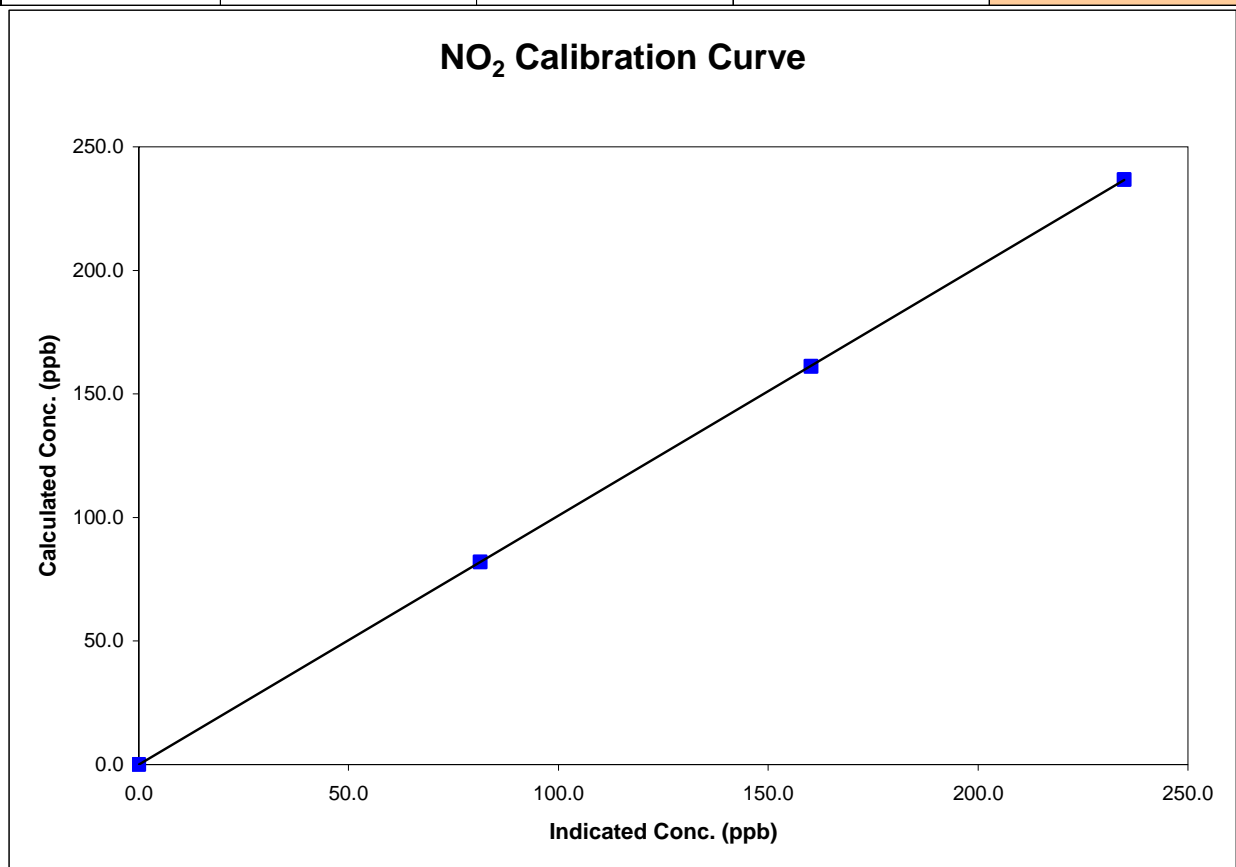
Parameter **NO₂**Air Monitoring Network **PASZA**

Station Information

Calibration Date	June 4, 2008	Previous Calibration	May 6, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:30	End Time (MST)	15:30
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	0.0000		
236.7	234.8	1.0079	Correlation Coefficient	0.999997
161.1	160.2	1.0056		
82.0	81.4	1.0077	Slope	1.007537
			Intercept	-0.062223



Calibration Summary

Parameter **NO_x**

Air Monitoring Network **PASZA**

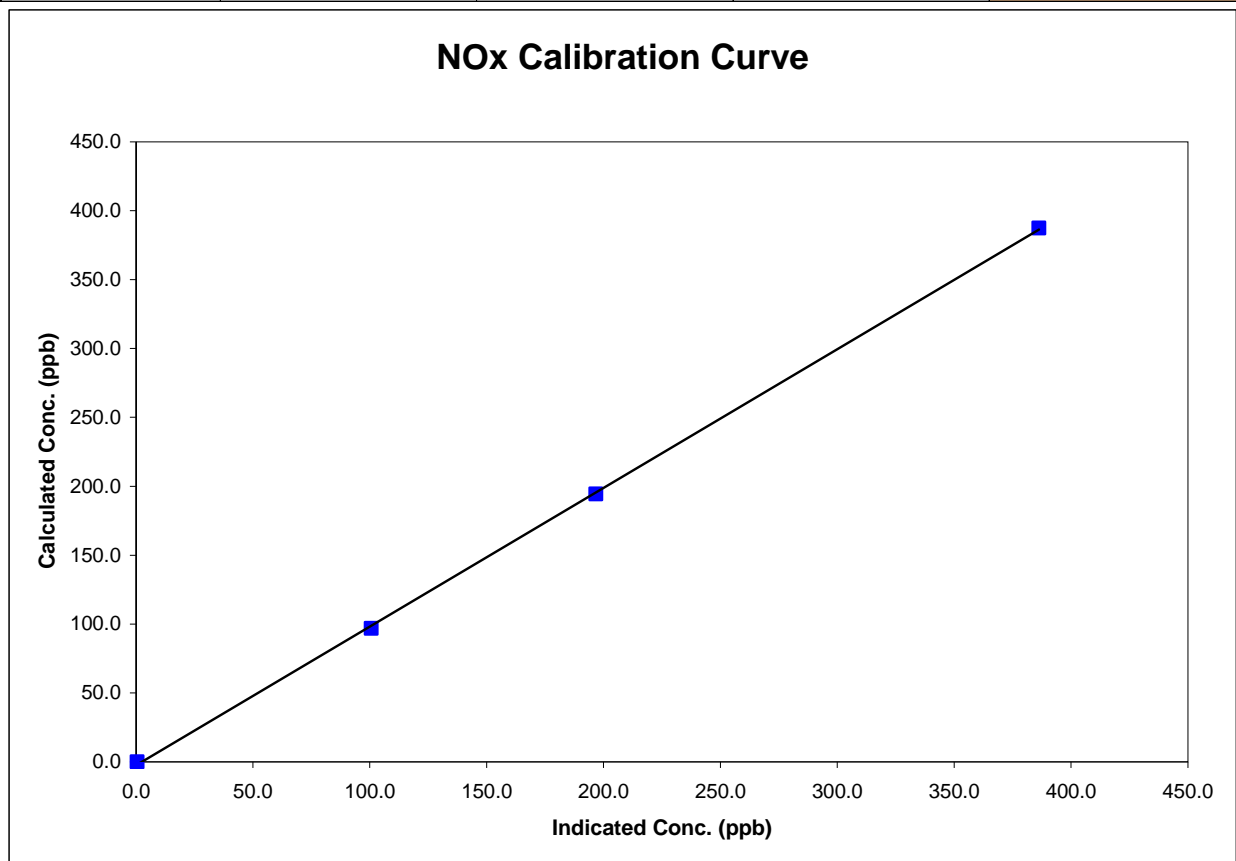


Station Information

Calibration Date	June 4, 2008	Previous Calibration	May 6, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:30	End Time (MST)	15:30
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.5	0.0000	Correlation Coefficient	0.999883
387.4	386.3	1.0029		
194.4	196.7	0.9885		
96.9	100.6	0.9632		
			Slope	1.006633
			Intercept	-2.476862



Calibration Summary

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

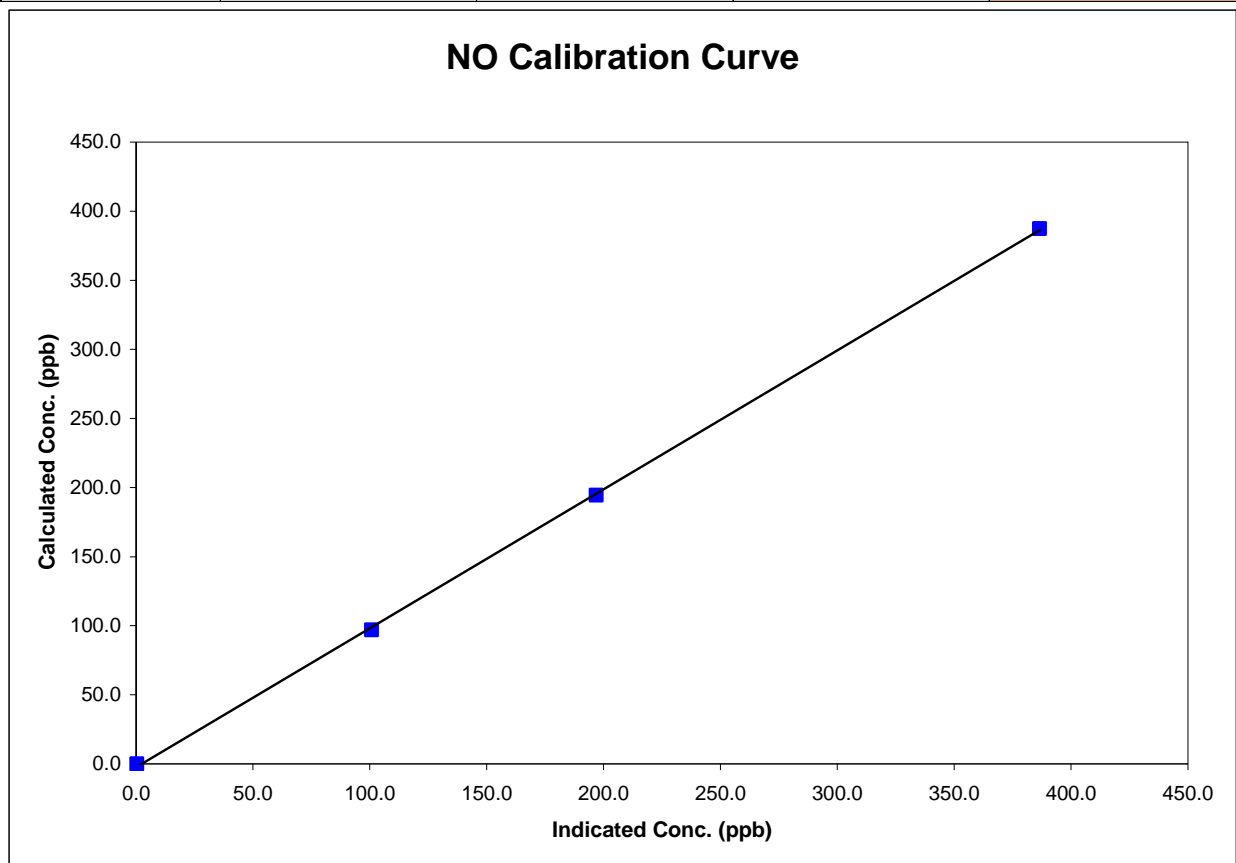


Station Information

Calibration Date	June 4, 2008	Previous Calibration	May 6, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:30	End Time (MST)	15:30
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.4	N/A	Correlation Coefficient	0.999870
387.4	386.6	1.0021		
194.4	196.9	0.9877	Slope	1.005686
96.9	100.8	0.9611		
			Intercept	-2.455456



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

Calibration Date	June 5, 2008	Previous Calibration	May 7, 2008
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:

Start Time (MST)	12:05	End Time (MST)	14:35
Barometric Pressure	0.911 atm	Station Temperature	20.0 Deg C
Calibrator	Enviroics 6103	Serial Number	2844
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA

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

Calculated slope	1.007435	Calculated slope	1.040061
Calculated intercept	0.260668	Calculated intercept	-0.295483

Analyzer make	TECO 49C	Analyzer serial #	607415761
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	before		after	
Concentration range	500	ppb	500	ppb
offset	-0.6	ppb	-0.6	ppb
slope	1.023		1.023	
O3 Lamp temp	71.1	Deg C	71	Deg C
Intensities	100377/80071	mV	100819/81123	mV
Pressure	709.1	inches Hg	708.9	inches Hg
Flow A	678	ccm	683	ccm
Flow B	696	Deg C	695	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	4990	0.0	0.2	N/A
300	4990	236.8	227.4	1.0410
200	4990	161.2	156.1	1.0329
100	4990	82.0	79.0	1.0387
0	4990	0.0	0.2	As found zero
300	4990	236.8	227.4	As found span
Average Correction Factor				1.0375

Calculated value of As Found Response: 229.2 ppm Percent Change of As Found: -3.2%

	before calibration		after calibration	
Auto zero	1.1	ppb	-1.0	ppb
Auto span	166.9	ppb	164.5	ppb

Notes: _____

Calibration Performed By: _____

Calibration Summary

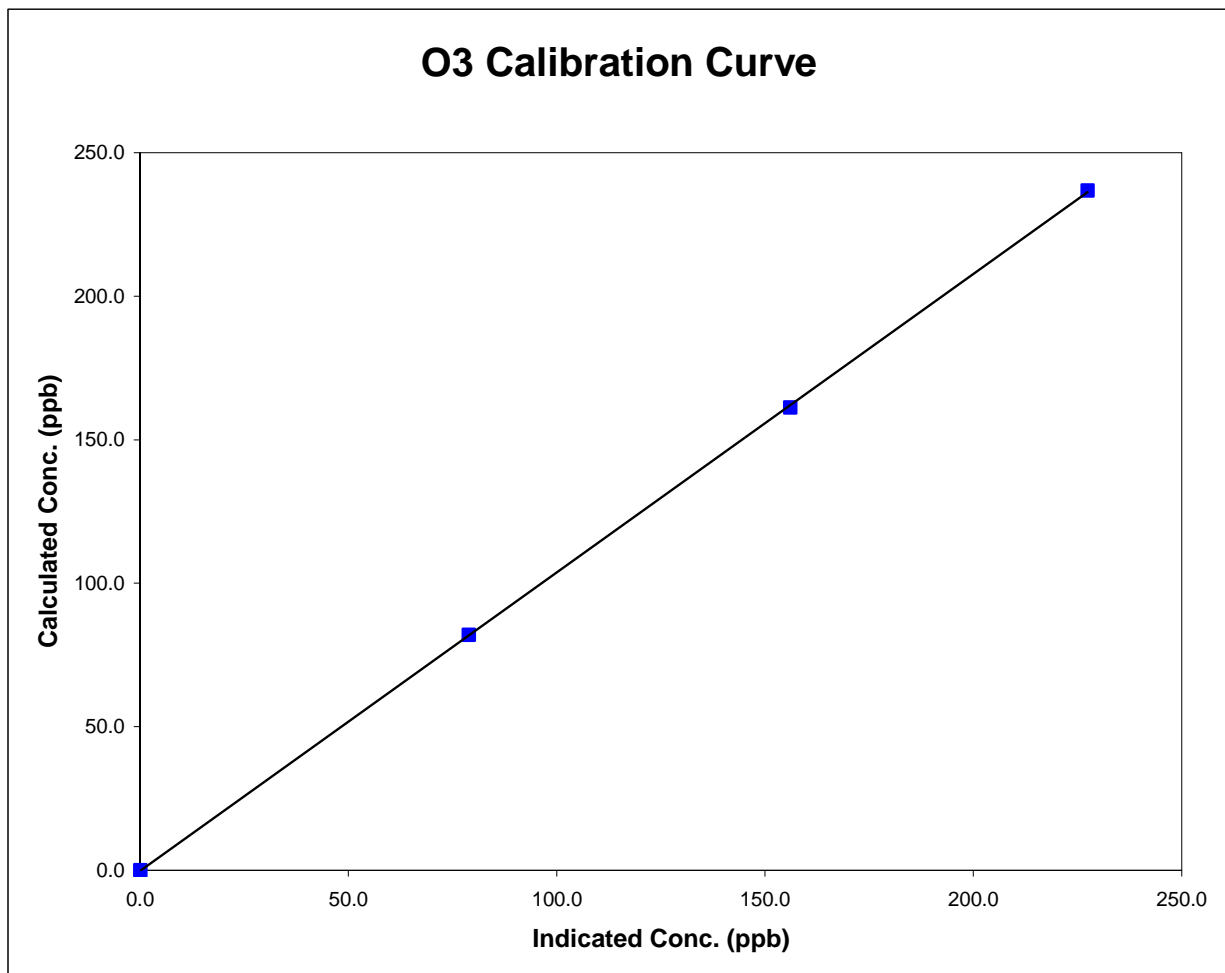
Parameter **O3**Air Monitoring Network **PASZA**

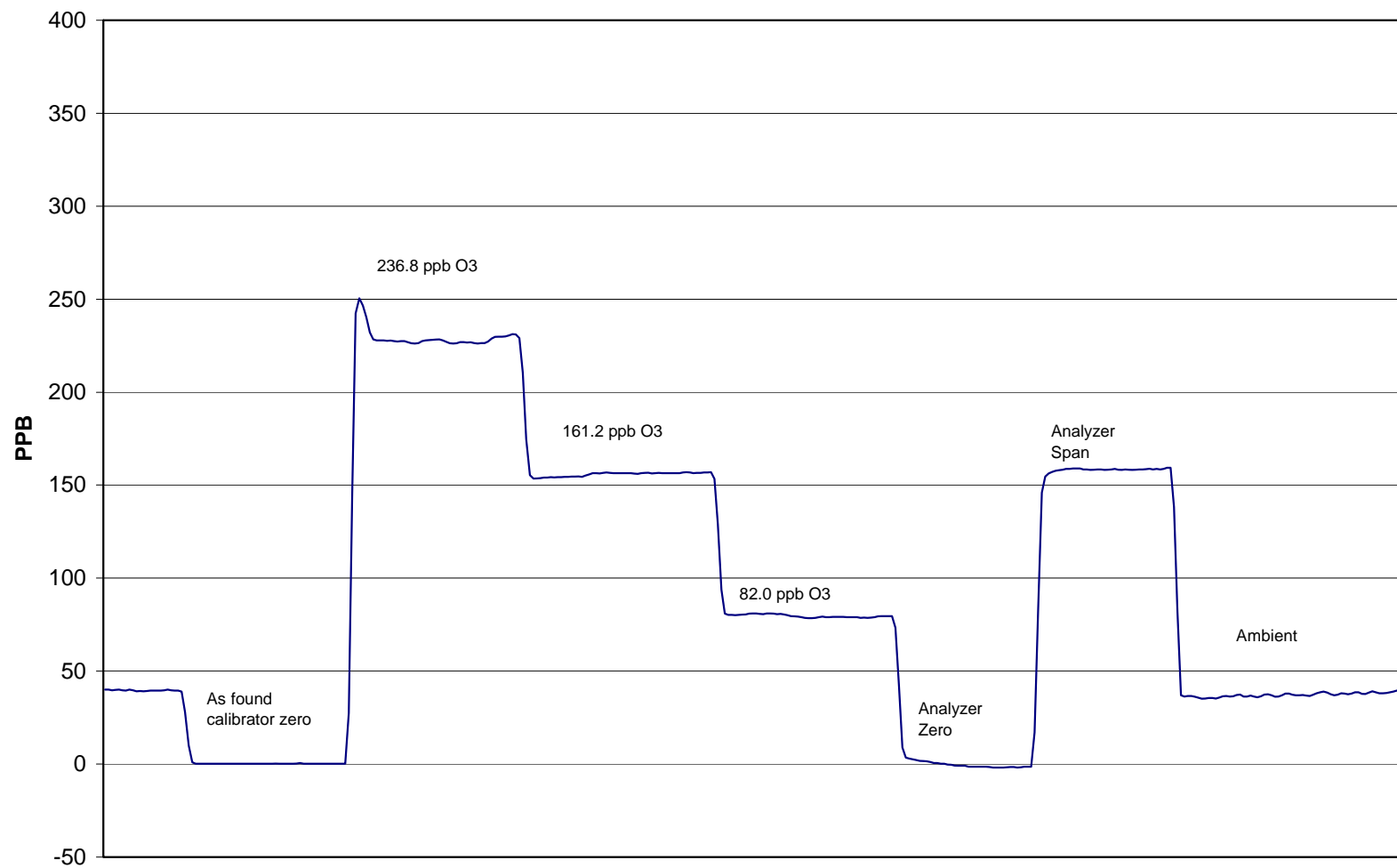
Station Information

Calibration Date	June 5, 2008	Previous Calibration	May 7, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	12:05	End Time (MST)	14:35
Analyzer make/model	TECO 49C	Analyzer serial #	607415761

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	NA		
236.8	227.4	1.0410	Correlation Coefficient	0.999968
161.2	156.1	1.0329		
82.0	79.0	1.0387	Slope	1.040061
			Intercept	-0.295483



Henry Pirker O₃ Calibration**June 5, 2008**

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

Calibration Date	June 5, 2008	Previous Calibration	May 7, 2008
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:

Start Time (MST)	13:50	End Time (MST)	16:20
Barometric Pressure	0.911 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	0.985651	Calculated slope	0.969704
Calculated intercept	-0.570672	Calculated intercept	-0.916098

Analyzer make	TEI Model 48C	Analyzer serial #	508011062
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	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO span setting	1.017		1.017	
CO zero setting	.808		.808	
Sample pressure	687.9	mm Hg	679.1	mm Hg
Sample Flow	1.13	LPM	1.12	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)
4989	0.00	0.00	0.90	N/A
4989	39.87	23.78	25.47	0.9339
4989	19.93	11.94	13.23	0.9025
4989	9.91	5.95	7.15	0.8314
4989	0.00	0.00	0.90	As Found Zero
4989	39.86	23.78	25.47	As Found Span
Average Correction Factor				0.8893

Calculated value of As Found Response: 23.642 ppm Percent Change of As Found: 0.6%

	before calibration		after calibration	
Auto zero	0.03	ppm	0.00	ppm
Auto span	17.46	ppm	17.89	ppm

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary

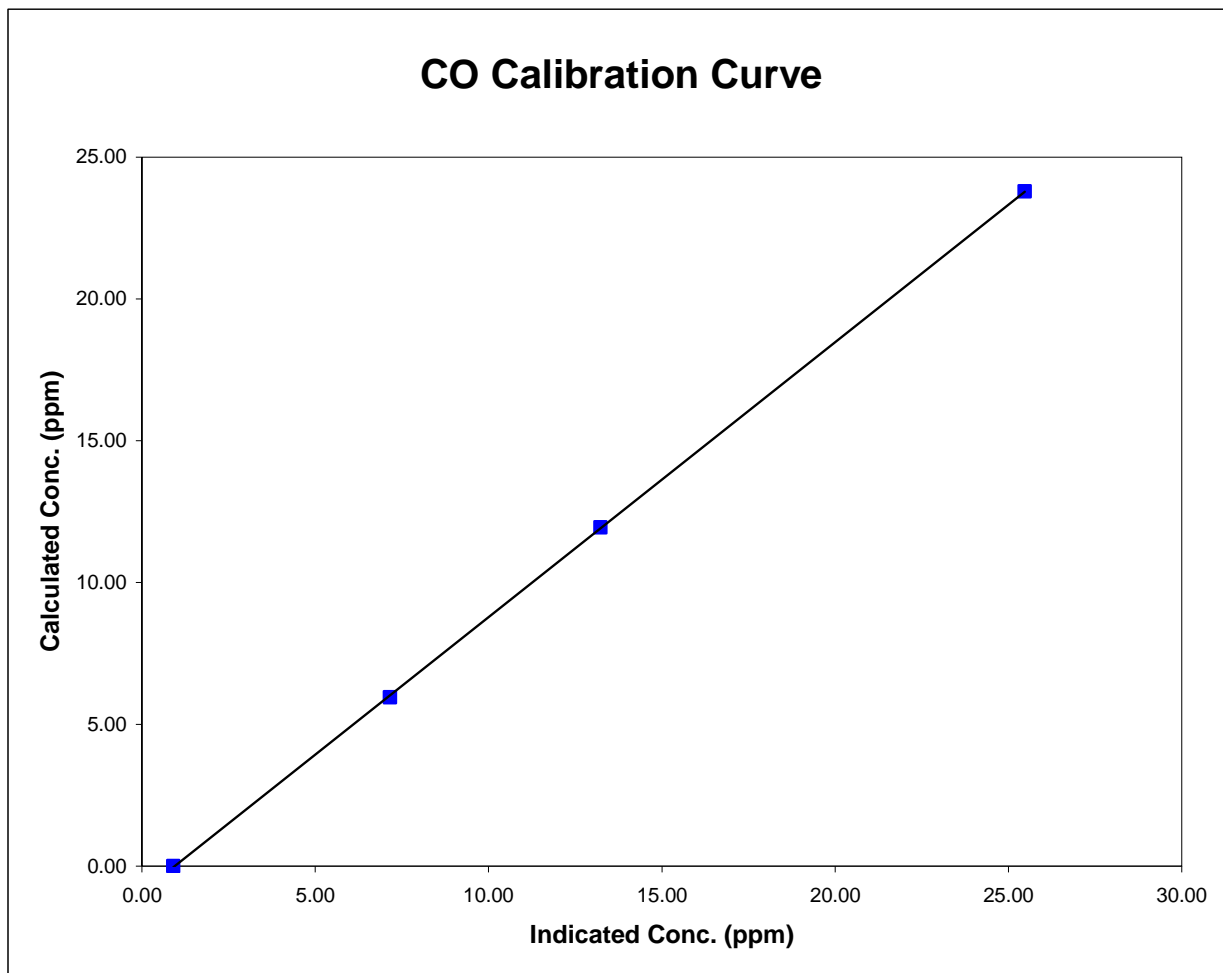
Parameter **CO**Air Monitoring Network **PASZA**

Station Information

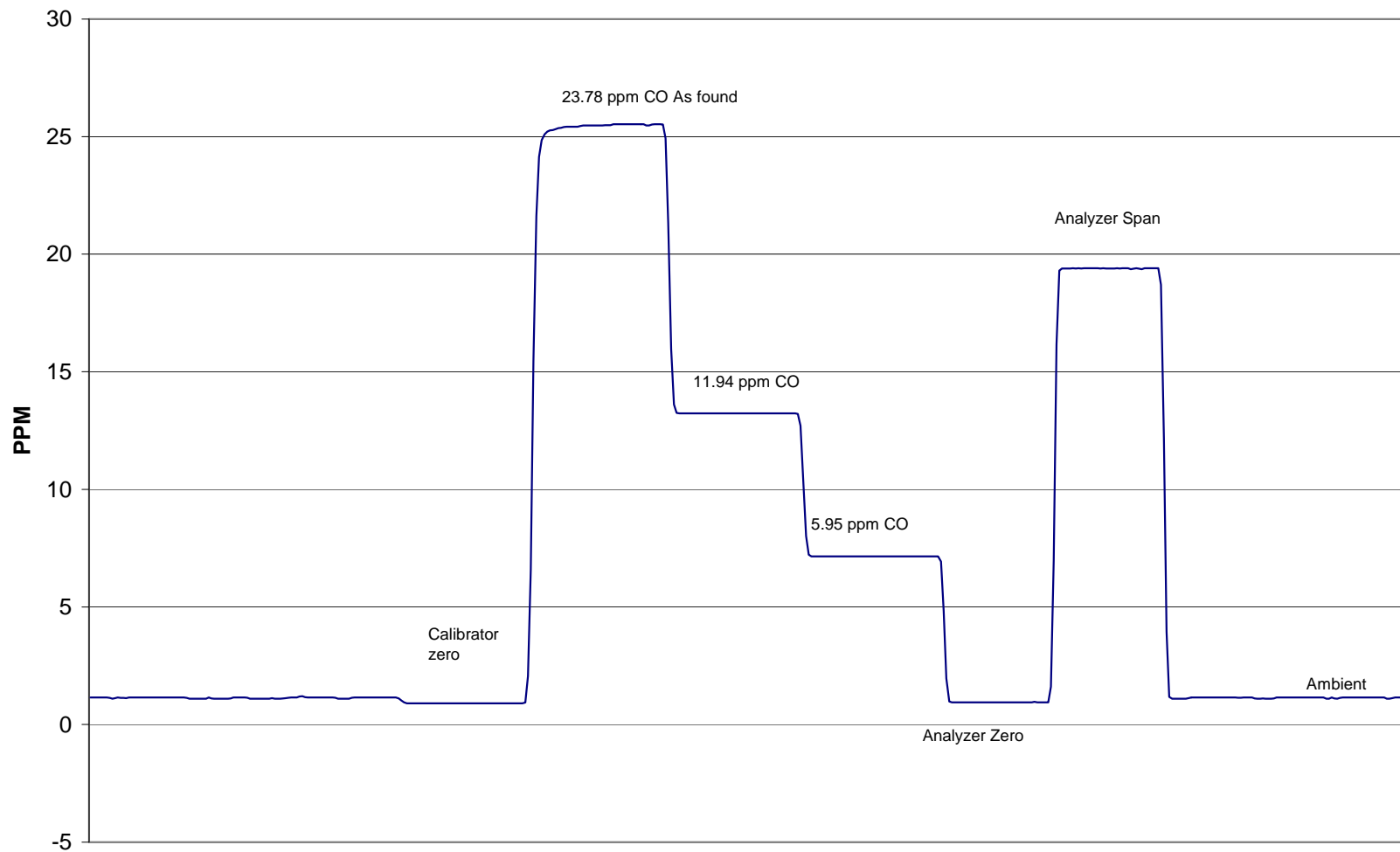
Calibration Date	June 5, 2008	Previous Calibration	May 7, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	13:50	End Time (MST)	16:20
Analyzer make/model	TEI Model 48C	Analyzer serial #	508011062

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.902	N/A		
23.785	25.467	0.9339	Correlation Coefficient	0.999975
11.937	13.227	0.9025		
5.947	7.153	0.8314	Slope	0.969704
			Intercept	-0.916098



Henry Pirker CO Calibration



June 5, 2008

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

Calibration Date	June 9, 2008	Previous Calibration	June 6, 2008
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:

Start Time (MST)	9:00	End Time (MST)	13:00
Barometric Pressure	0.911 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	0.970099	Calculated slope	1.013090
Calculated intercept	-0.919543	Calculated intercept	-0.076448

Analyzer make	TEI Model 48C	Analyzer serial #	508011062
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	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO span setting	1.017		1.017	
CO zero setting	.808		.808	
Sample pressure	679.1	mm Hg	687.9	mm Hg
Sample Flow	1.12	LPM	1.13	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)
4991	0.00	0.00	0.00	N/A
4991	39.83	23.75	23.49	1.0113
4991	19.92	11.93	11.87	1.0051
4991	9.92	5.95	6.04	0.9845
4991	0.00	0.00	0.90	As Found Zero
4991	39.86	23.77	25.45	As Found Span
Average Correction Factor				1.0003

Calculated value of As Found Response: 22.902 ppm Percent Change of As Found: 3.7%

	before calibration		after calibration	
Auto zero	0.00	ppm	-0.03	ppm
Auto span	17.90	ppm	17.88	ppm

Notes: Adjusted ZeroCalibration Performed By: Conor Whiteley

Calibration Summary

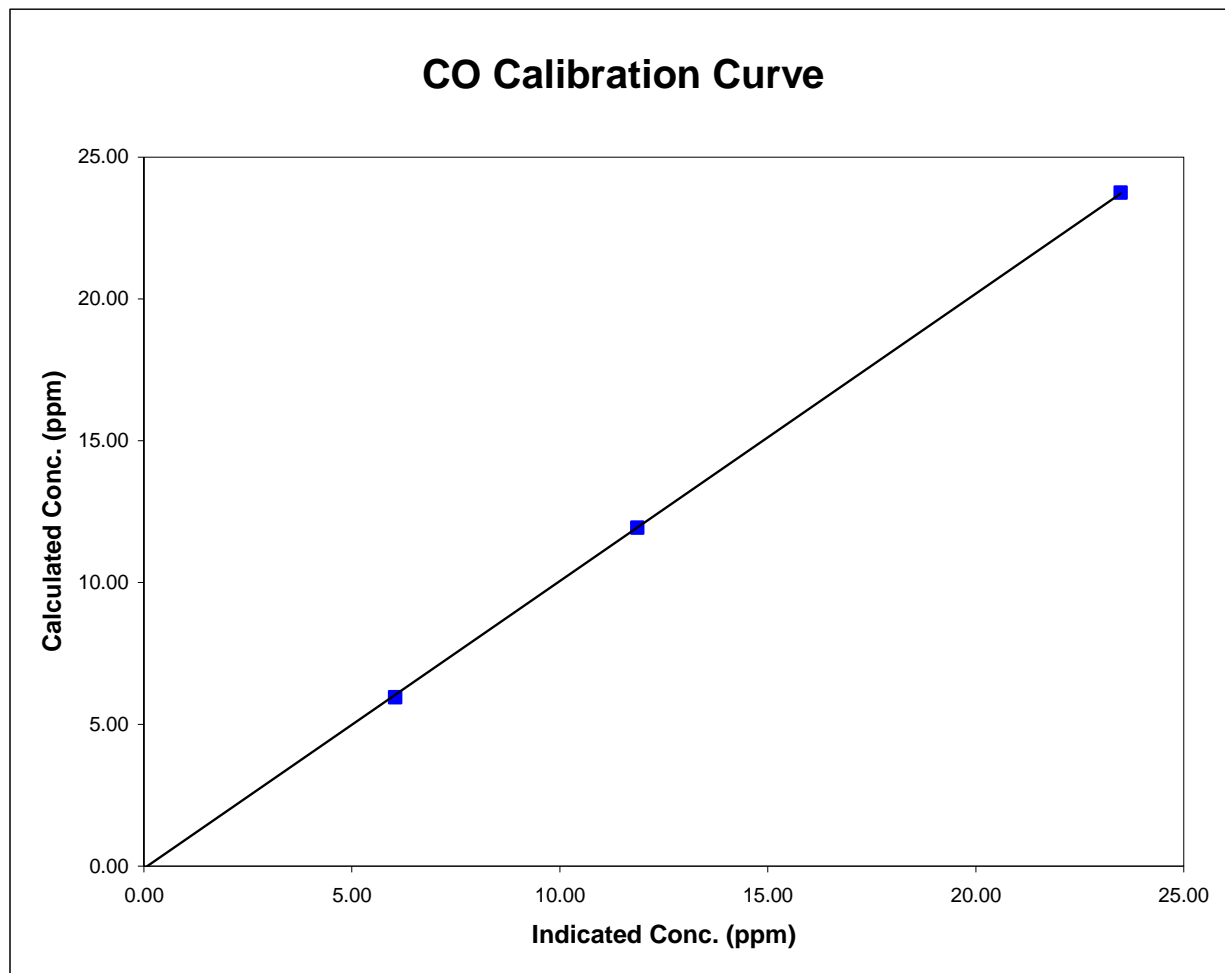
Parameter **CO**Air Monitoring Network **PASZA**

Station Information

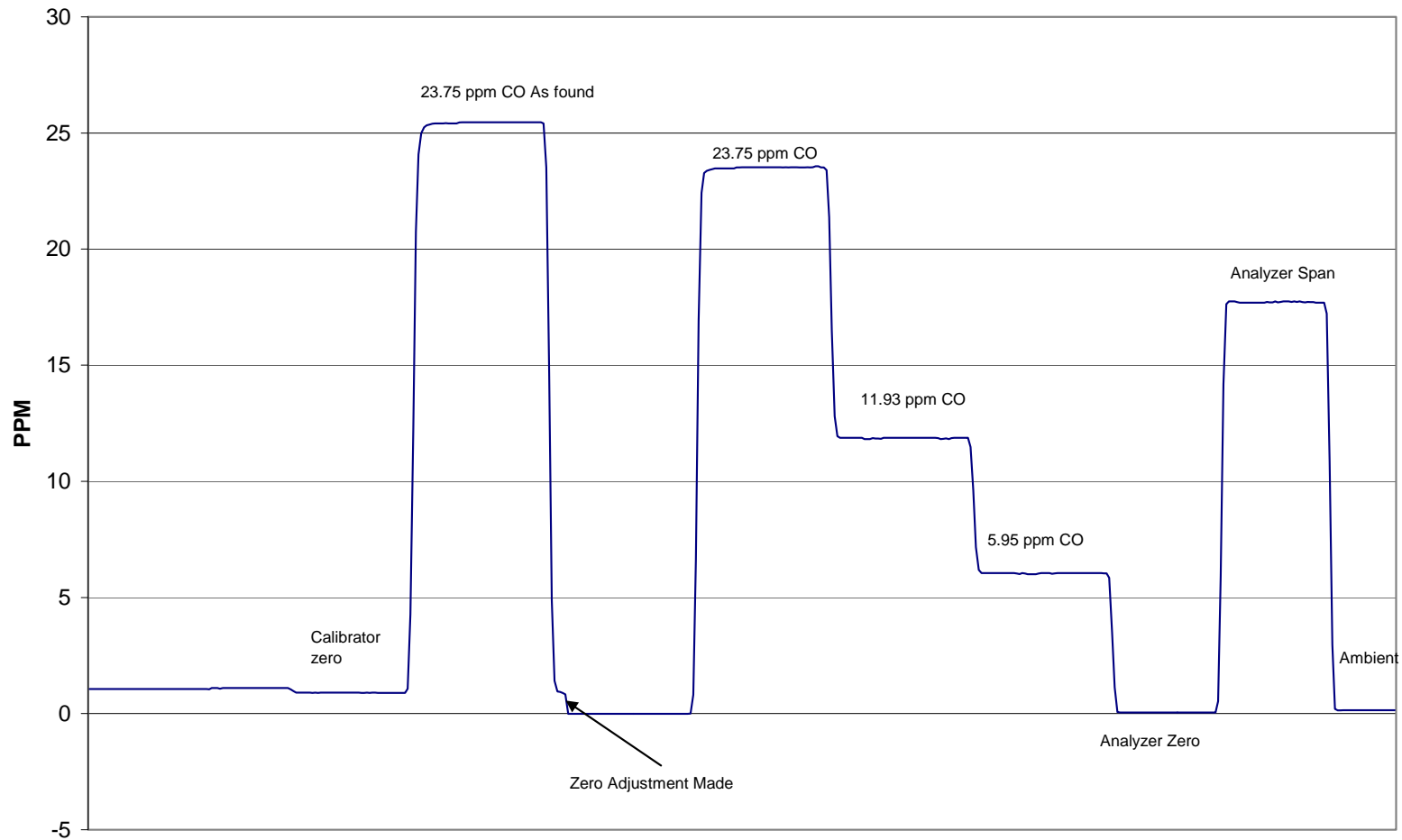
Calibration Date	June 9, 2008	Previous Calibration	June 6, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:00	End Time (MST)	13:00
Analyzer make/model	TEI Model 48C	Analyzer serial #	508011062

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.004	N/A		
23.752	23.486	1.0113	Correlation Coefficient	0.999944
11.926	11.866	1.0051		
5.951	6.044	0.9845	Slope	1.013090
			Intercept	-0.076448



Henry Pirker CO Calibration



June 9, 2008

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

Calibration Date	June 6, 2008	Previous Calibration	May 8, 2008
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)	8:56	End Time (MST)	11:20
Barometric Pressure	0.925 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentration	701 ppm CH4/ 299 ppm C3H8	Cal Gas Expiry Date	12/10/2005
Cal Gas CH4 equiv	1523.25 ppm	Cal Gas Cylinder #	ALM 005412
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>

Calculated slope	0.997090	Calculated slope	1.003289
Calculated intercept	-0.005710	Calculated intercept	0.171179

Analyzer make	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390
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	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
THC sample pressure	6.11	psi	6.11	psi
THC span counts	7170	capture	7170	capture
THC zero counts	1121	capture	1121	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)
4990	0.00	0.00	-0.20	N/A
4990	69.83	21.02	20.79	1.0111
4990	29.88	9.07	8.83	1.0271
4990	9.93	3.03	2.90	1.0422
4990	0.00	0.00	-0.20	As Found Zero
4990	69.82	21.02	20.79	As Found Span
Average Correction Factor				1.0268

Calculated value of As Found Response: 20.922 ppm Percent Change of As Found: 0.5%

	before calibration		after calibration	
Auto zero	-0.01	ppm	-0.01	ppm
Auto span	24.92	ppm	25.20	ppm

Notes: _____

_____Calibration Performed By: Conor Whiteley

Calibration Summary

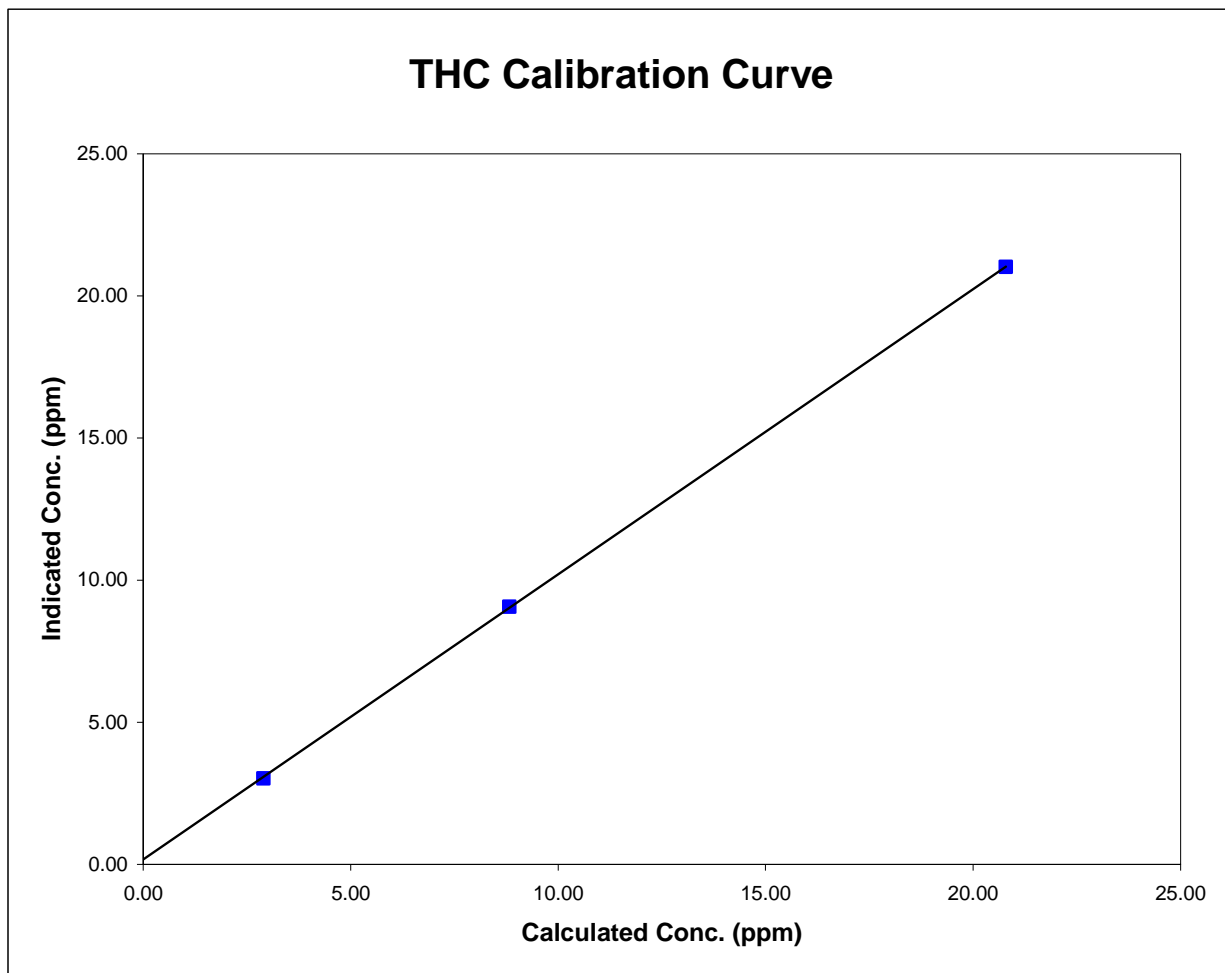
Parameter **THC**Air Monitoring Network **PASZA**

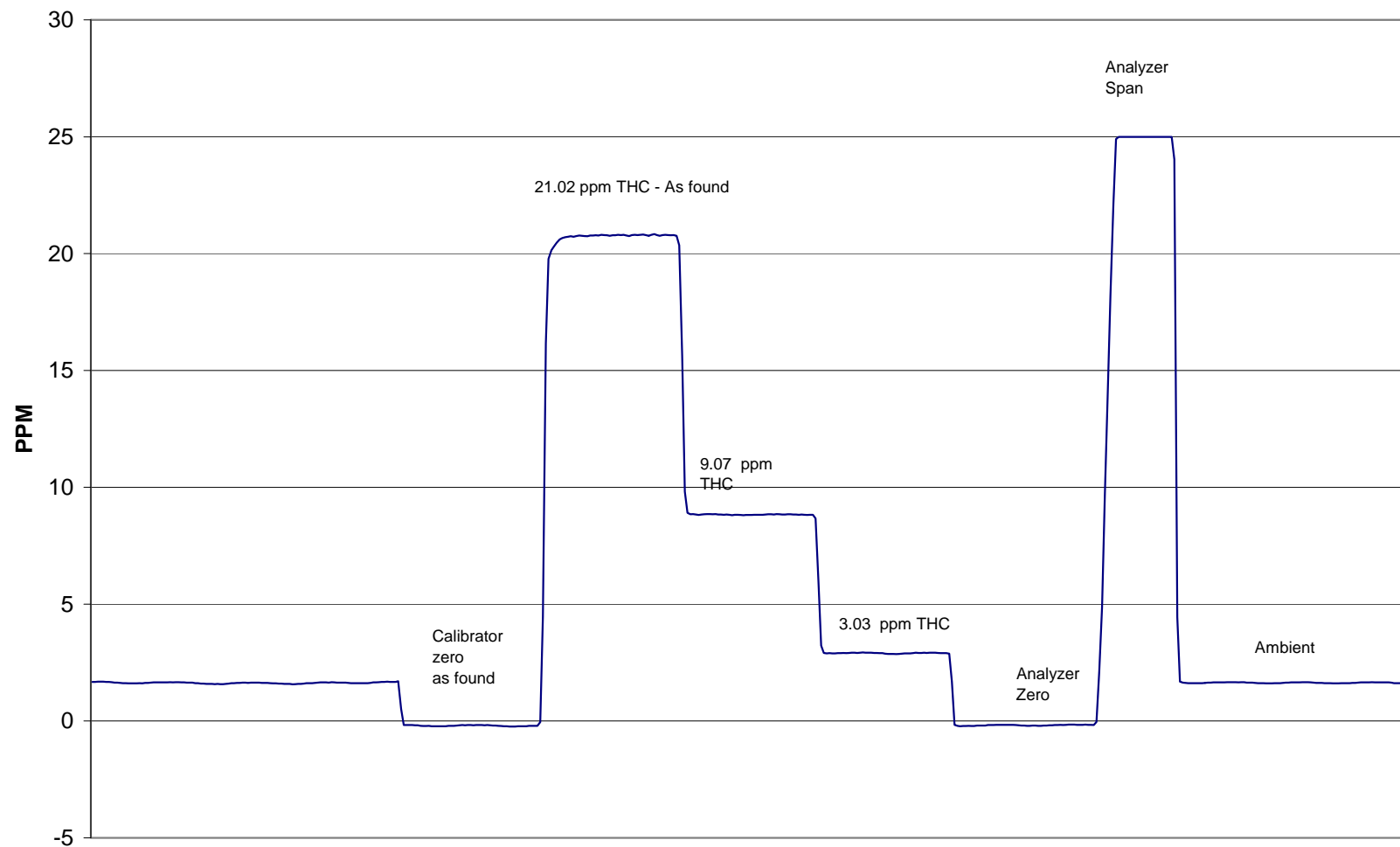
Station Information

Calibration Date	June 6, 2008	Previous Calibration	May 8, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	8:56	End Time (MST)	11:20
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	-0.198	N/A		
21.022	20.791	1.0111	Correlation Coefficient	0.999978
9.067	8.828	1.0271		
3.025	2.903	1.0422	Slope	1.003289
			Intercept	0.171179



Henry Pirker THC Calibration**June 6, 2008**

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

Calibration Date	June 3, 2008	Previous Calibration	May 7, 2008
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:

Start Time (MST)	13:50	End Time (MST)	16:30
Barometric Pressure	0.910 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	5.1 ppb	Cal Gas Expiry Date	7/31/2008
		Cal Gas Cylinder #	ALM013295
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>

Calculated slope	0.975725	Calculated slope	0.987290
Calculated intercept	0.728797	Calculated intercept	0.859327

Analyzer make	TEI 45C	Analyzer serial #	630718528
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	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Coefficient	0.871		0.871	
Background	17.9		18.0	
Pressure	657	mm Hg	651	mm Hg
Flow	459	ccm	456	ccm
Lamp Voltage	851	V	847	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)
4990	0.00	0.00	-1.12	N/A
4990	79.68	80.16	80.23	0.9991
4990	39.87	40.43	40.19	1.0059
4990	9.92	10.12	9.61	1.0531
4990	0.00	0.00	-1.12	As Found Zero
4990	79.68	80.16	80.23	As Found Span
Average Correction Factor				1.0194

Calculated value of As Found Response: 80.1 ppb Percent Change of As Found: 0.1%

	before calibration		after calibration	
Auto zero	0.02	ppb	-0.08	ppb
Auto span	34.81	ppb	36.13	ppb

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary

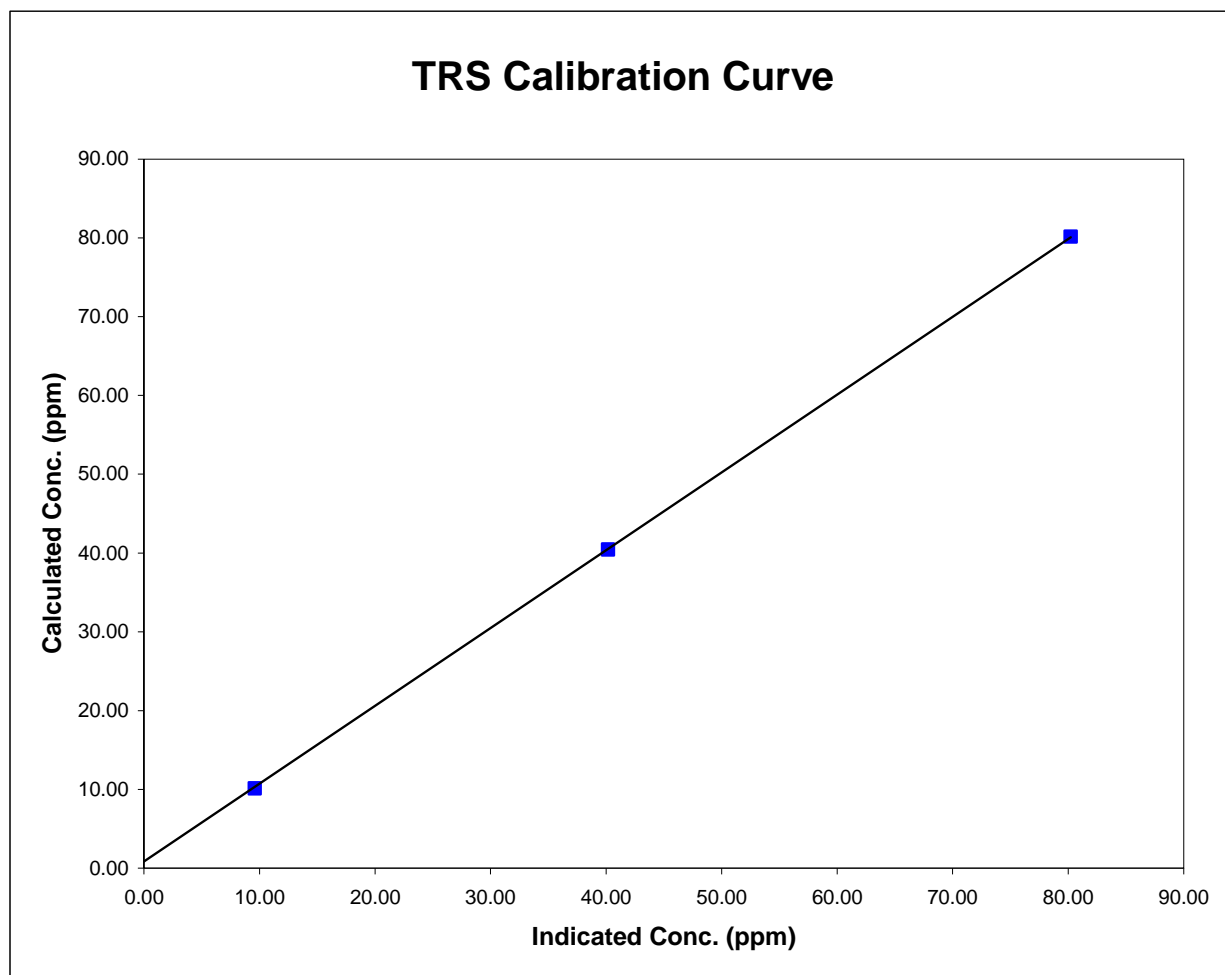
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

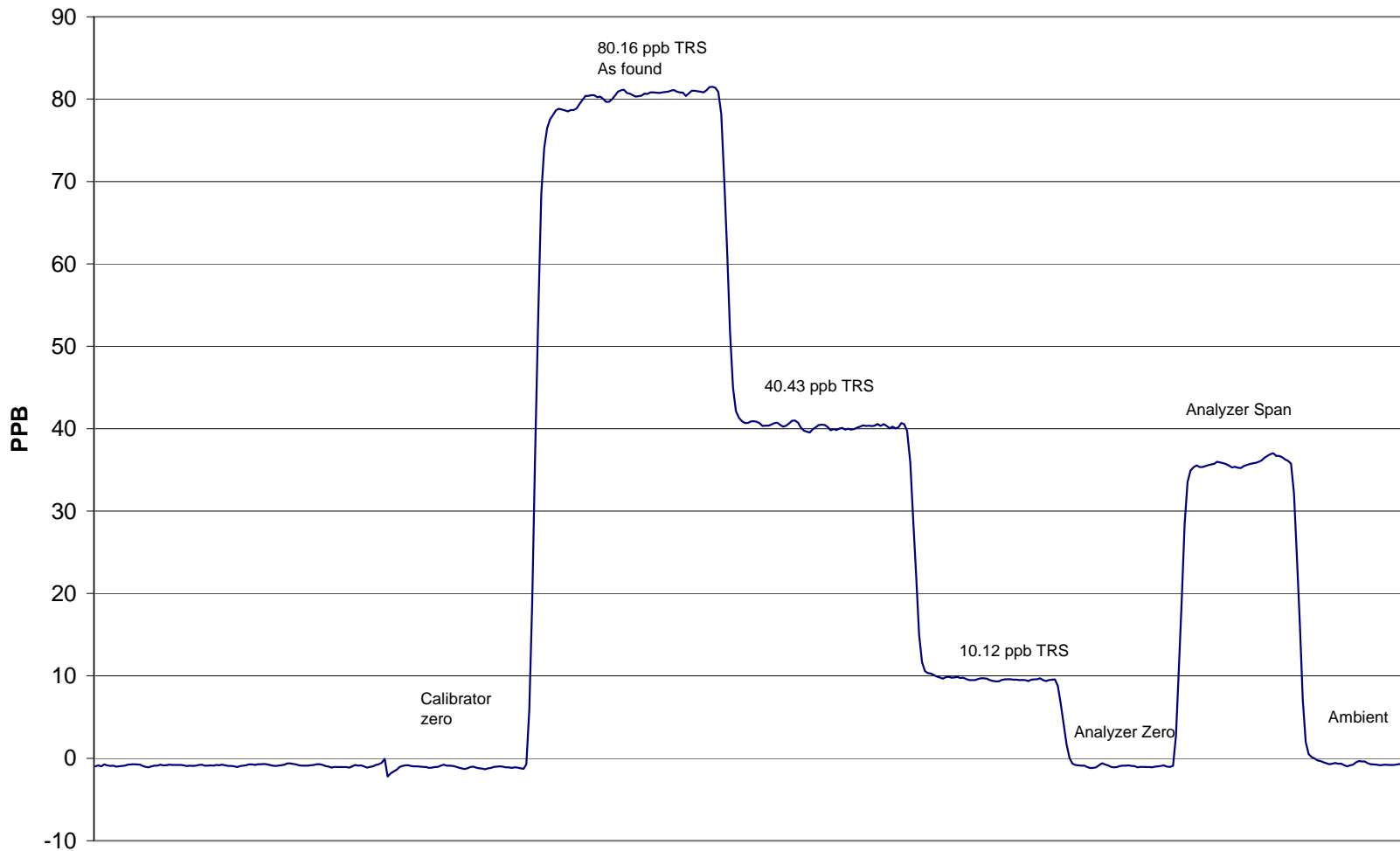
Calibration Date	June 3, 2008	Previous Calibration	May 7, 2008
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	13:50	End Time (MST)	16:30
Analyzer make/model	TEI 45C	Analyzer serial #	630718528

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-1.125	N/A		
80.157	80.231	0.9991	Correlation Coefficient	0.999966
40.426	40.187	1.0059		
10.119	9.608	1.0531	Slope	0.987290
			Intercept	0.859327



Henry Pirker TRS Calibration



June 3, 2008

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

Calibration Date	June 24, 2008	Previous Calibration	May 9, 2008
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)	14:20	End Time (MST)	16:55
Barometric Pressure	0.920 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	0.031273	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	1.002706	Calculated slope	1.035591
Calculated intercept	-2.207150	Calculated intercept	-1.889055
Analyzer make	Teco 43i	Analyzer serial #	701120008

	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
Background	9		9	
coefficient	0.928		0.928	
Lamp Voltage	837	volts	837	volts
Chamber Temp	45	Deg C	45	Deg C
Perm Gas Temp	44.25	Deg C	44.25	Deg C
Pressure	659.5	mm Hg	659.5	mm Hg
Sample Flow	440	ccm	440	ccm
Lamp Intensity	89	%	89	%

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4991	0.0	0.00	1.2	N/A
4991	39.80	397.94	385.7	1.0316
4991	19.91	199.86	195.2	1.0239
4991	9.90	99.58	98.6	1.0097
4991	0.0	0.00	1.2	As Found Zero
4991	39.80	397.94	385.7	As Found Span
Average Correction Factor				1.0218

Calculated value of As Found Response: 383.406 ppm Percent Change of As Found: 3.7%

	before calibration		after calibration	
Auto zero	-1.3	ppm	-0.7	ppm
Auto span	271.1	ppm	281.7	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

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

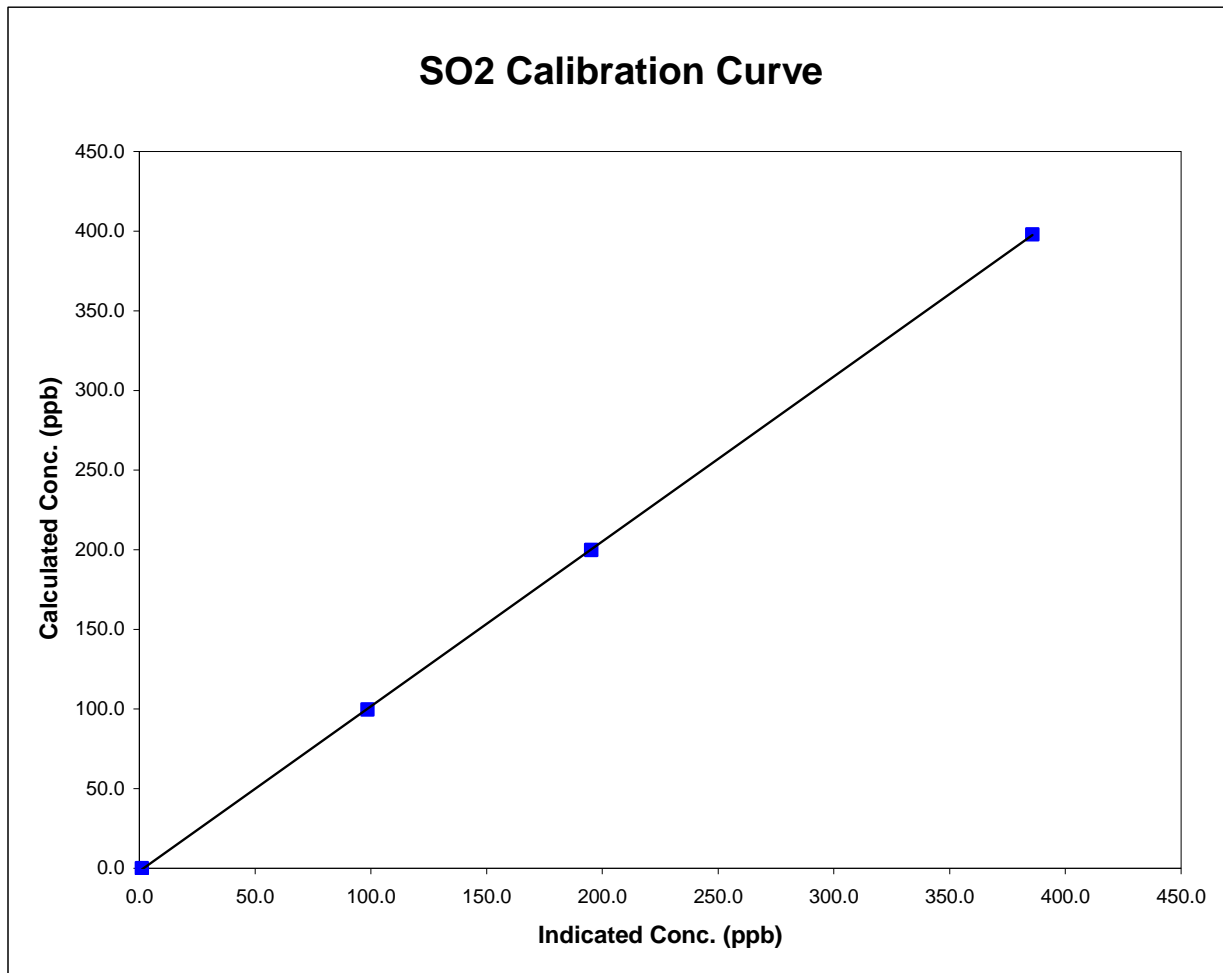


Station Information

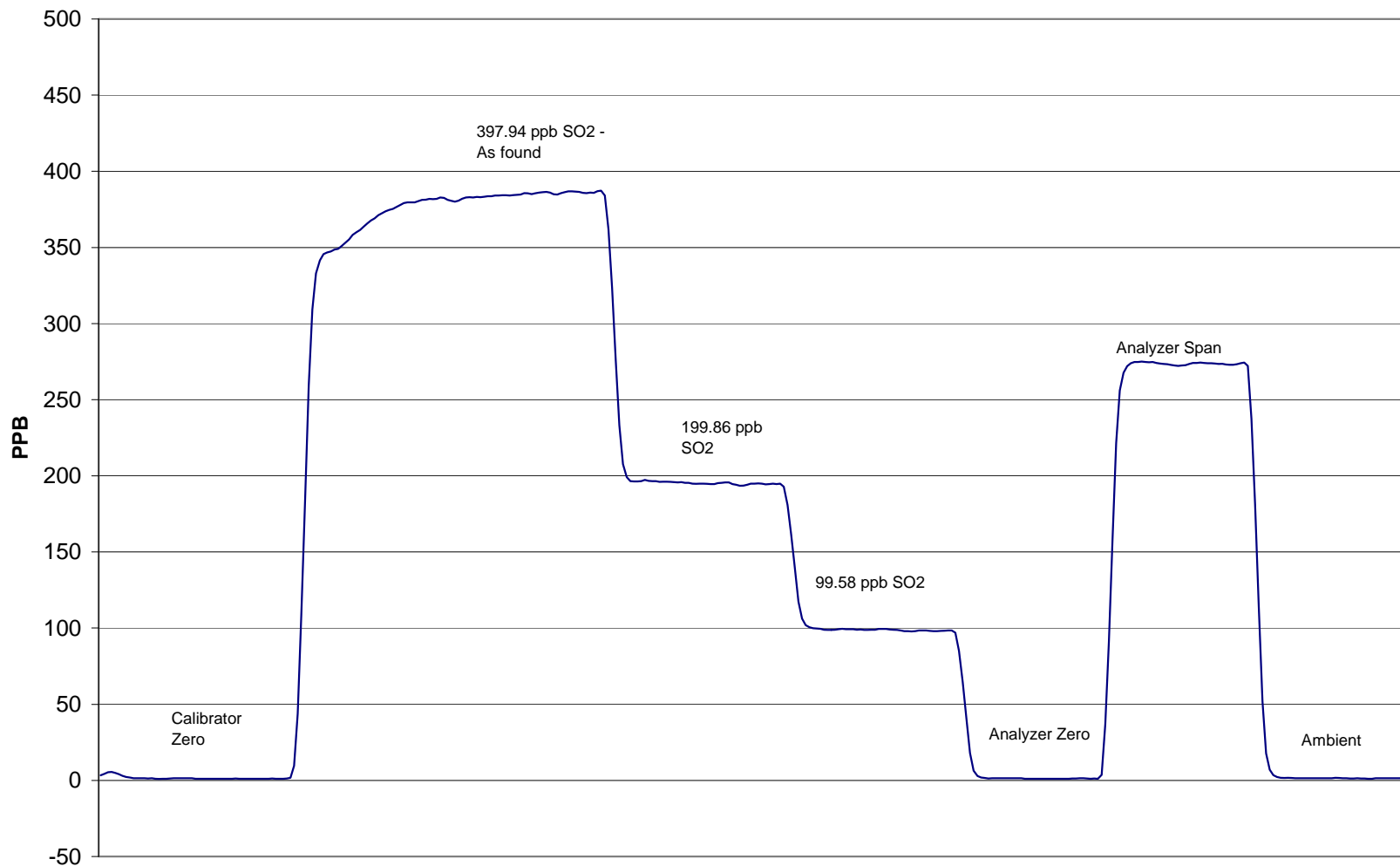
Calibration Date	June 24, 2008	Previous Calibration	May 9, 2008
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	14:20	End Time (MST)	16:55
Analyzer make/model	Teco 43i	Analyzer serial #	701120008

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.2	N/A		
397.9	385.7	1.0316	Correlation Coefficient	0.999986
199.9	195.2	1.0239		
99.6	98.6	1.0097	Slope	1.035591
			Intercept	-1.889055



Evergreen Park SO₂ Calibration



June 24, 2008

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

Calibration Date	June 24, 2007	Previous Calibration	May 9, 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)	15:00
Barometric Pressure	0.920 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	5.1 ppm	Cal Gas Expiry Date	4/2/2009
Correction factor	0.031273	Cal Gas Cylinder #	ALM 013295
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	5
	<u>Before</u>		<u>After</u>
Calculated slope	0.971076	Calculated slope	0.970536
Calculated intercept	0.838816	Calculated intercept	0.732690
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	15.2	ppb	15.2	ppb
coefficient	0.616		0.616	
Lamp Voltage	823	volts	823	volts
Chamber Temp	44.2	Deg C	44.2	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	626.4	mm Hg	626.4	mm Hg
Sample Flow	462	ccm	462	ccm
Lamp Intensity	45,127	mv	45,127	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)
4990	0.00	0.00	-0.7	N/A
4988	79.72	80.23	82.0	0.9789
4991	39.88	40.43	40.8	0.9908
4990	9.94	10.14	9.7	1.0461
4990	0.00	0.00	-0.7	As Found Zero
4988	79.72	80.23	82.0	As Found Span
Average Correction Factor				1.0053

Calculated value of As Found Response: 81.11 ppm Percent Change of As Found: -1.1%

	before calibration		after calibration	
Auto zero	-0.2	ppm	-0.2	ppm
Auto span	68.5	ppm	69.2	ppm

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary

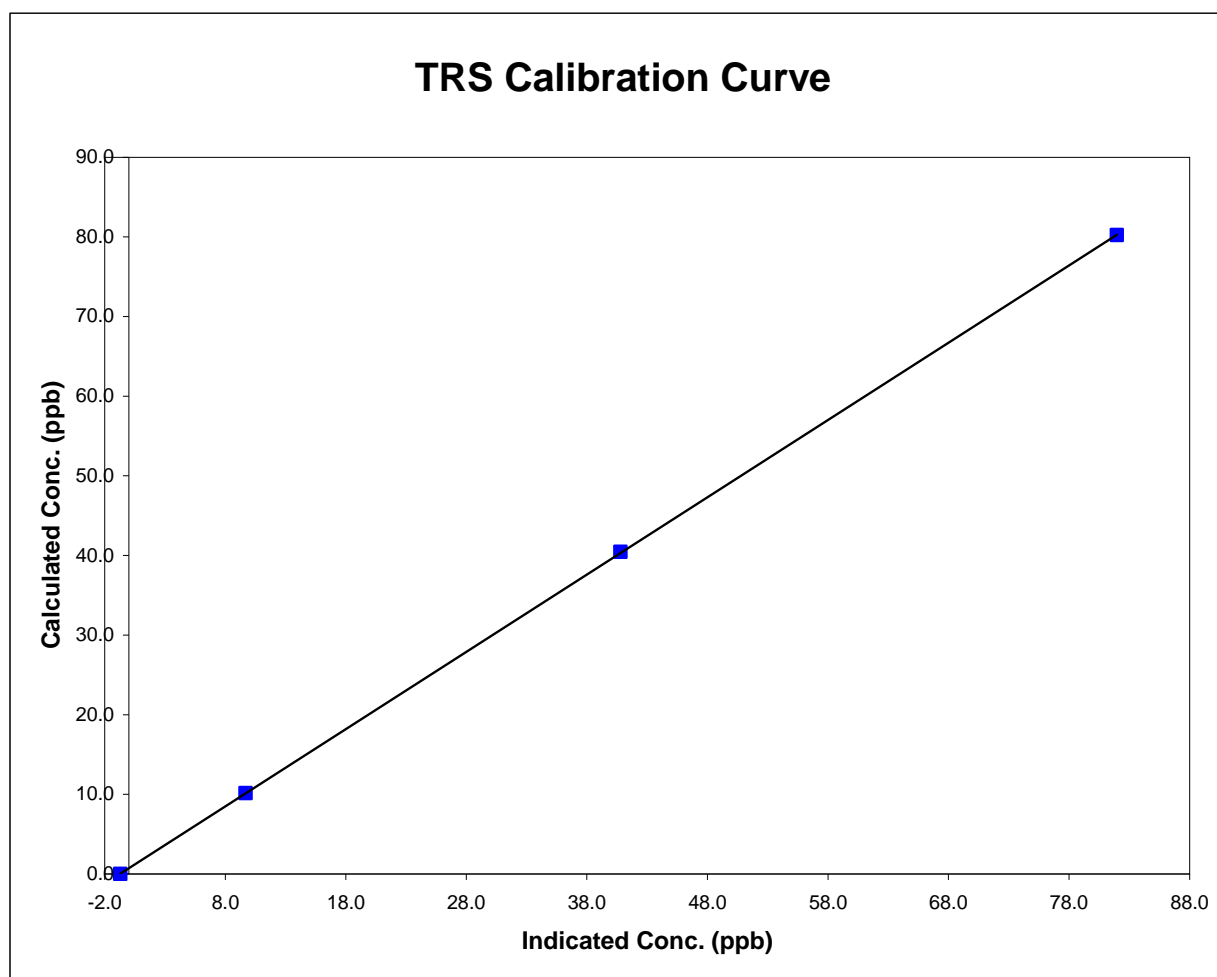
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

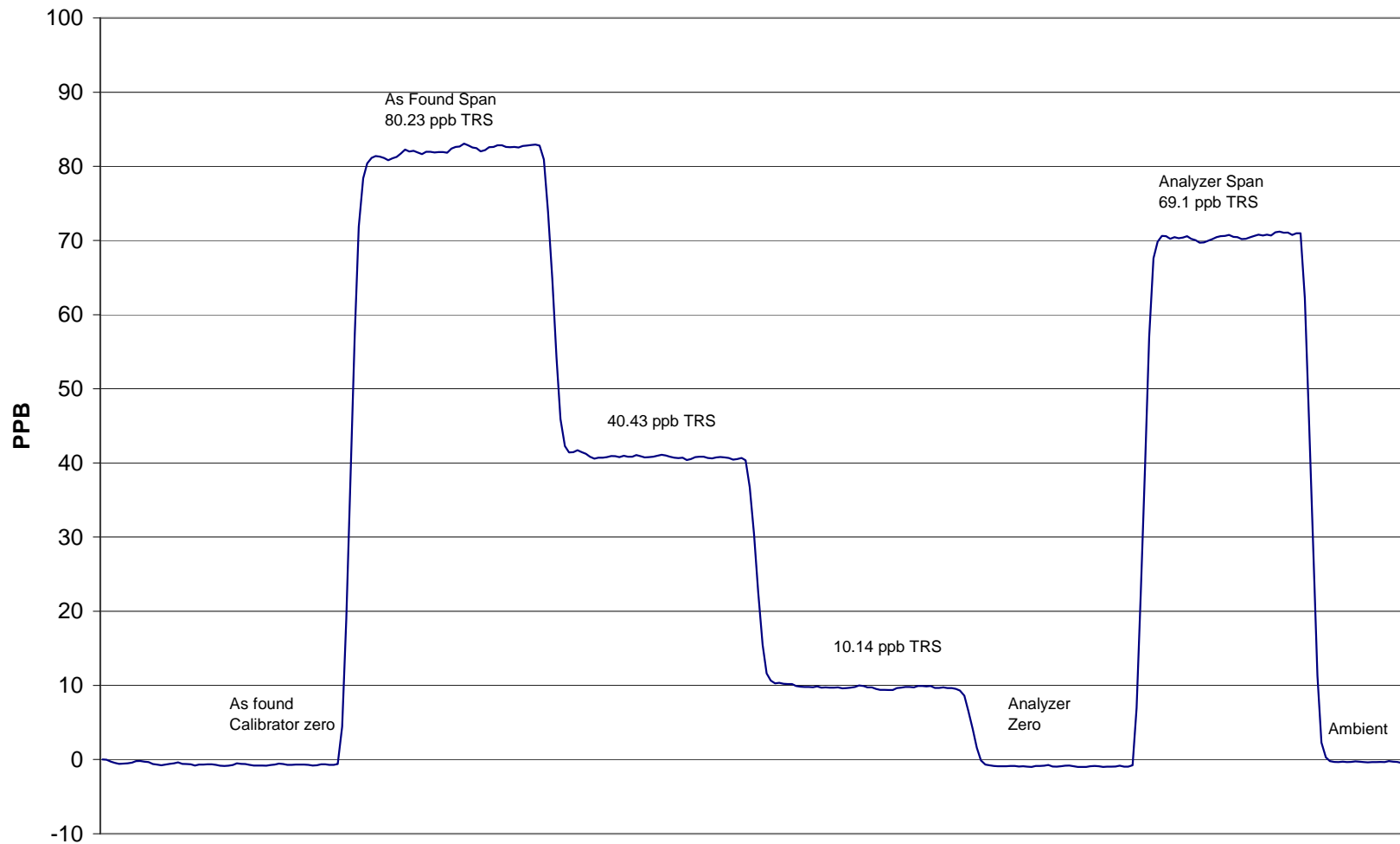
Calibration Date	June 24, 2007	Previous Calibration	May 9, 2007
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	12:30	End Time (MST)	15:00
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.7	N/A		
80.2	82.0	0.9789	Correlation Coefficient	0.999997
40.4	40.8	0.9908		
10.1	9.7	1.0461	Slope	0.970536
			Intercept	0.732690



Evergreen Park TRS Calibration



May 9, 2007

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

Calibration Date	June 23, 2008	Previous Calibration	May 23, 2008
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)	12:30	End Time (MST)	15:05
Barometric Pressure	0.924 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	0.031409	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	0.996186	Calculated slope	1.005782
Calculated intercept	-1.464891	Calculated intercept	-2.656522
Analyzer make	Teco 43i	Analyzer serial #	701120009

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	6.4		6.4	
coefficient	0.722		0.722	
Lamp Voltage	937	volts	937	volts
Chamber Temp	45.1	Deg C	45.1	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	678	mm Hg	678	mm Hg
Sample Flow	450	ccm	450	ccm
Lamp Intensity	87	%	87	%

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)
4990	0.0	0.00	0.6	N/A
4990	39.81	398.12	397.4	1.0017
4990	19.94	200.20	202.6	0.9881
4990	9.92	99.80	104.1	0.9589
4990	0.0	0.00	0.6	As Found Zero
4990	39.92	399.21	397.4	As Found Span
Average Correction Factor				0.9829

Calculated value of As Found Response: 393.888 ppm Percent Change of As Found: 1.3%

	before calibration		after calibration	
Auto zero	-1.1	ppm	-2.1	ppm
Auto span	304.5	ppm	310.8	ppm

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary

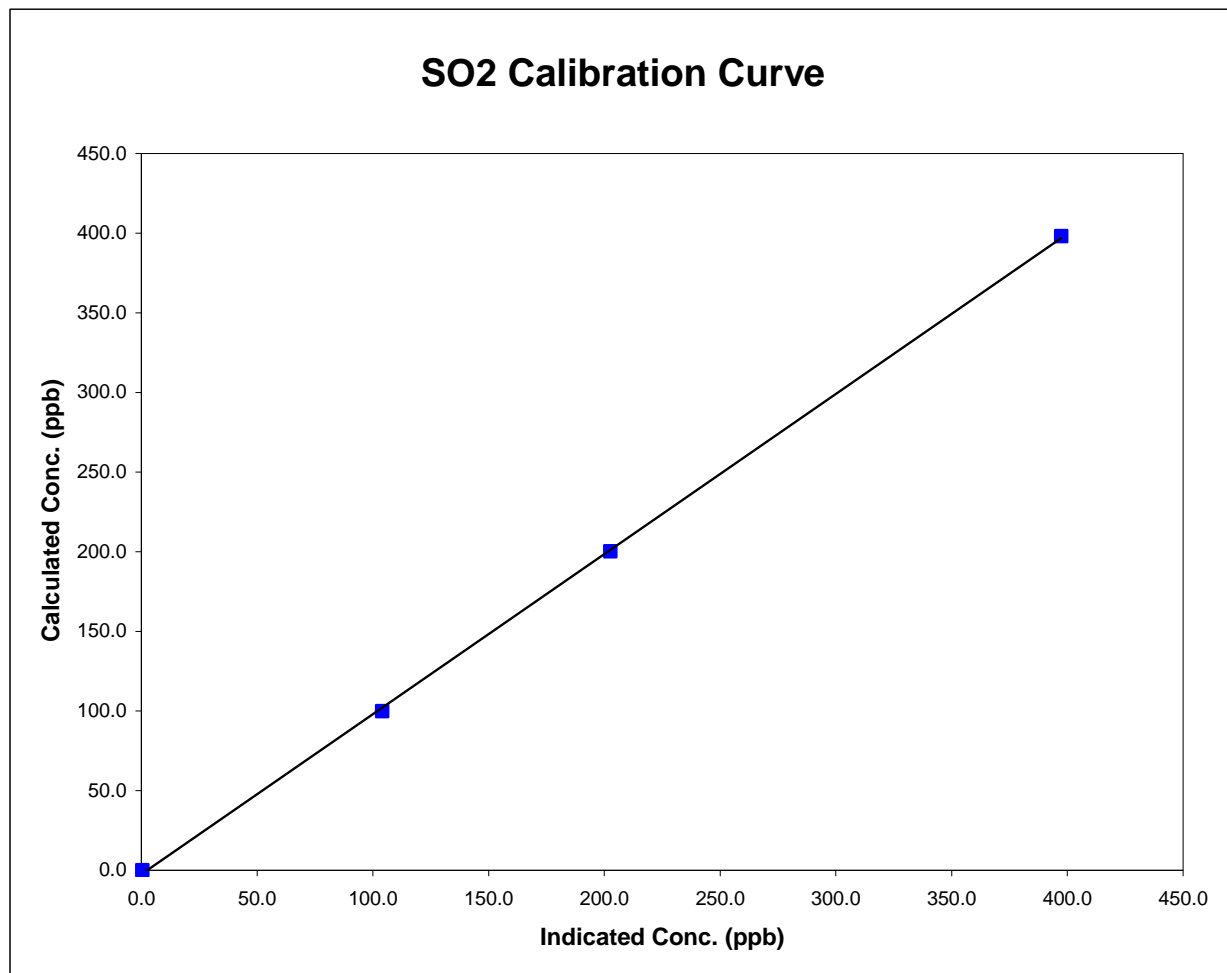
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

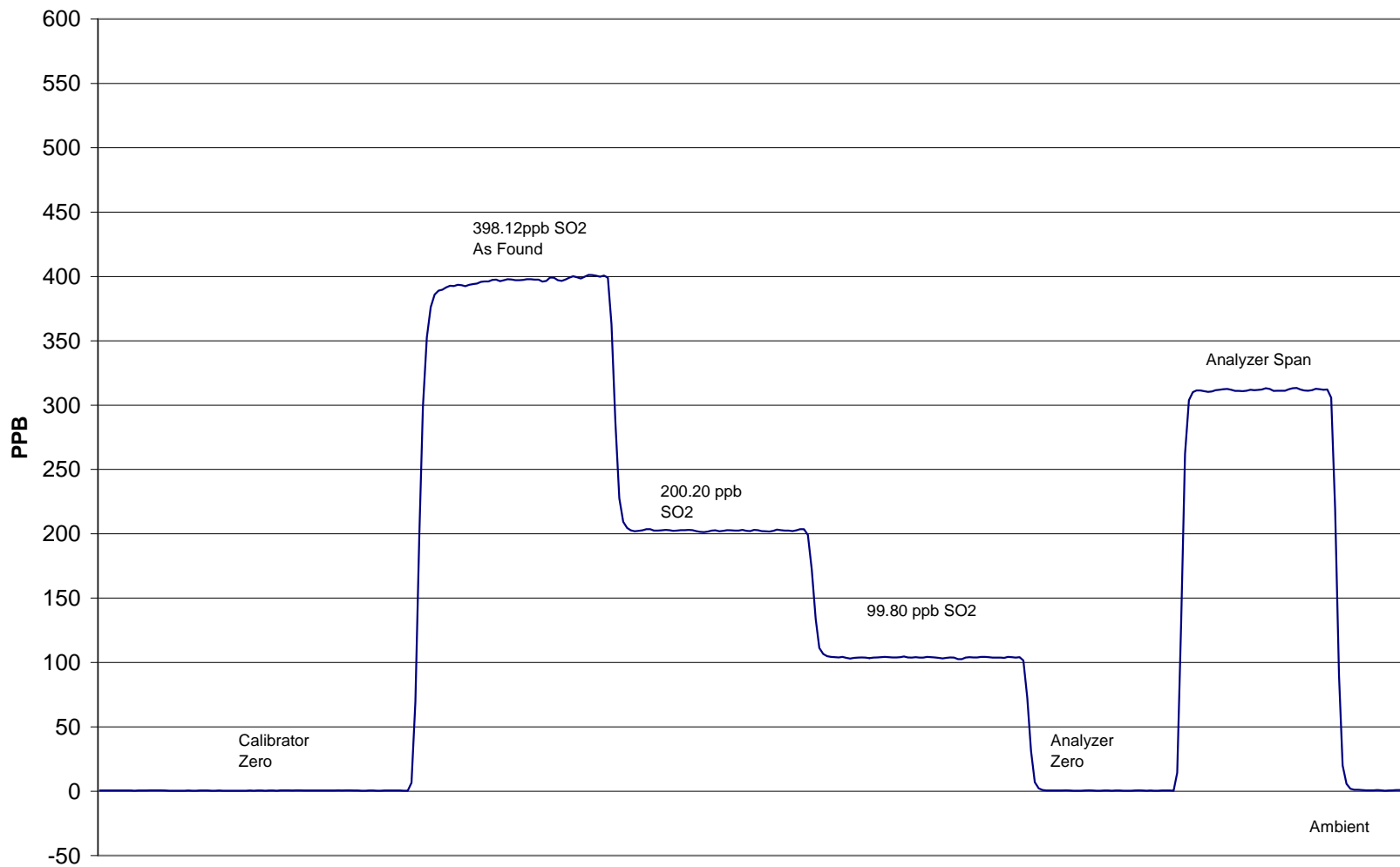
Calibration Date	June 23, 2008	Previous Calibration	May 23, 2008
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	12:30	End Time (MST)	15:05
Analyzer make/model	Teco 43i	Analyzer serial #	701120009

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.6	N/A		
398.1	397.4	1.0017	Correlation Coefficient	0.999870
200.2	202.6	0.9881		
99.8	104.1	0.9589	Slope	1.005782
			Intercept	-2.656522



Smoky Heights SO₂ Calibration



June 23, 2008

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

Calibration Date	June 23, 2008	Previous Calibration	May 23, 2008
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	10:40	End Time (MST)	13:10
Barometric Pressure	0.924 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	5.1 ppm	Cal Gas Expiry Date	4/2/2009
Correction factor	0.031409	Cal Gas Cylinder #	ALM013295
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	5
	<u>Before</u>		<u>After</u>
Calculated slope	1.002826	Calculated slope	1.007613
Calculated intercept	-0.895616	Calculated intercept	-1.204206
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	100	ppb	100	ppb
Background	11.5	ppb	11.5	ppb
coefficient	1.006		1.006	
Lamp Voltage	772	volts	772	volts
Chamber Temp	43.9	Deg C	43.9	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	482.4	mm Hg	482.4	mm Hg
Sample Flow	750	ccm	750	ccm
Lamp Intensity	32,422	mv	32,422	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)
4990	0.0	0.00	1.1	N/A
4990	79.84	80.31	80.8	0.9943
4990	39.81	40.37	41.5	0.9724
4990	9.92	10.12	11.2	0.9002
4990	0.0	0.00	1.1	As Found Zero
4990	79.84	80.31	80.8	As Found Span
Average Correction Factor				0.9556

Calculated value of As Found Response: 79.04 ppm Percent Change of As Found: 1.6%

	before calibration		after calibration	
Auto zero	0.0	ppm	-0.4	ppm
Auto span	42.3	ppm	42.5	ppm

Notes: _____

Calibration Performed By: Conor Whiteley

Calibration Summary

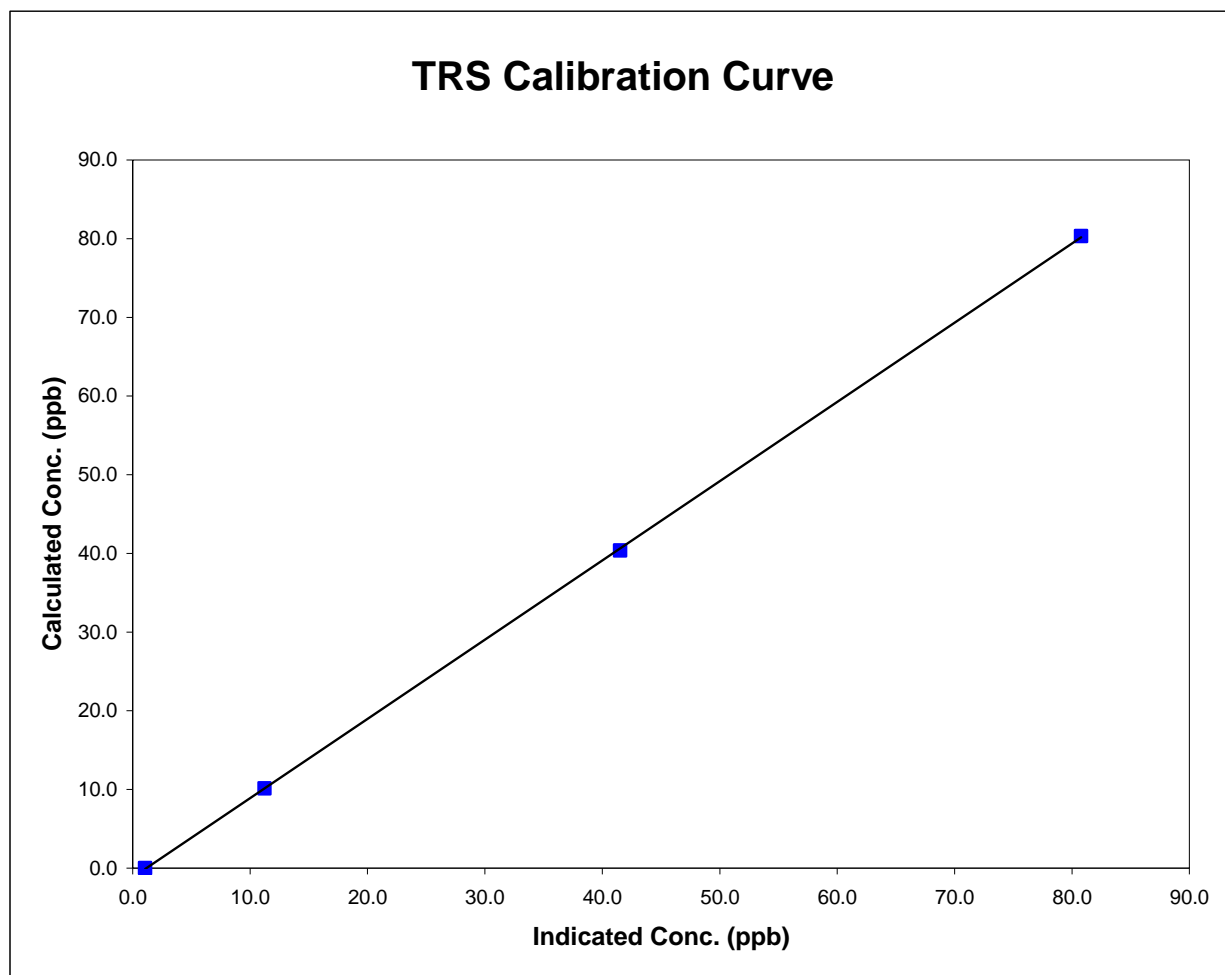
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

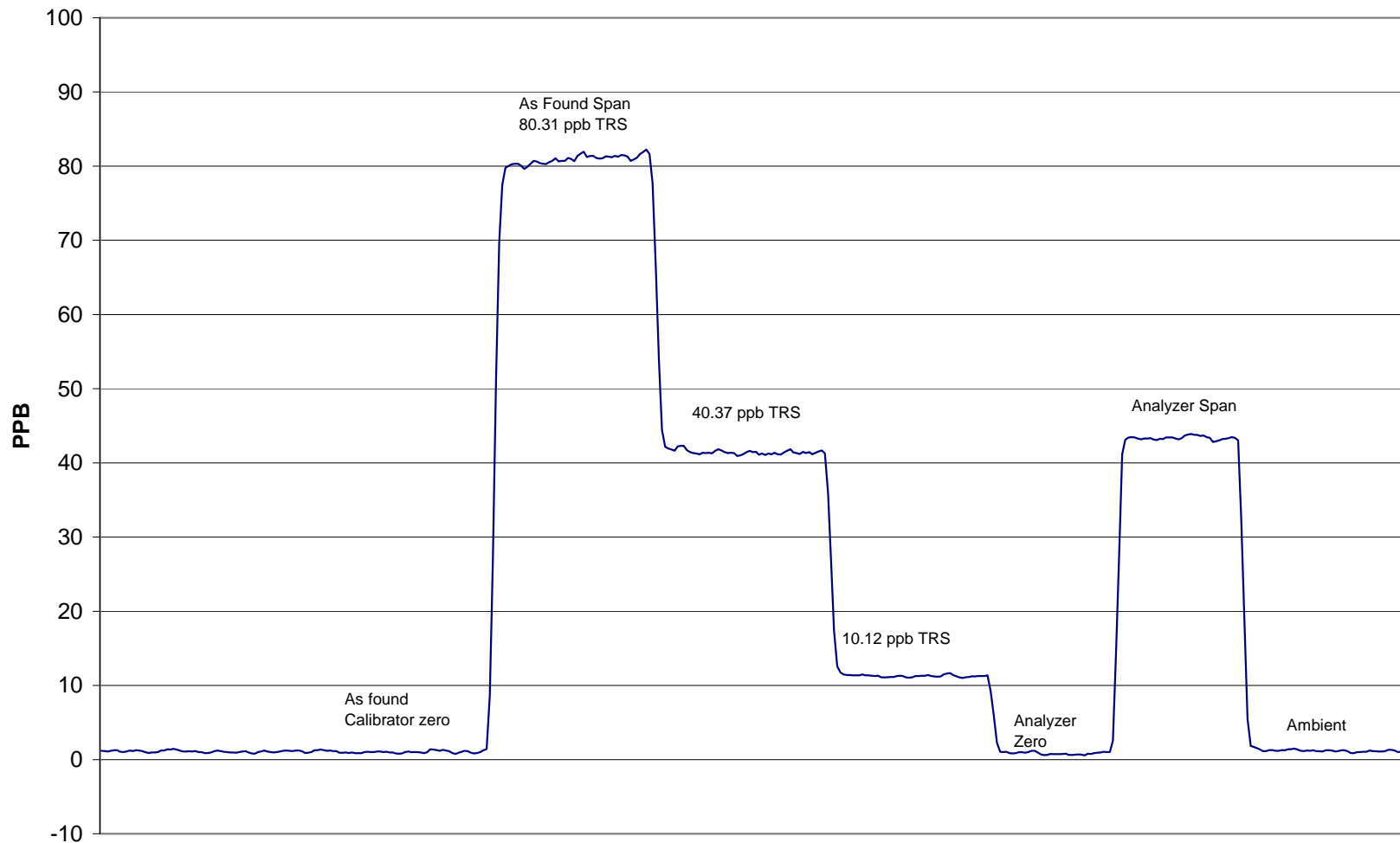
Calibration Date	June 23, 2008	Previous Calibration	May 23, 2008
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	10:40	End Time (MST)	13:10
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.1	N/A		
80.3	80.8	0.9943	Correlation Coefficient	0.999974
40.4	41.5	0.9724		
10.1	11.2	0.9002	Slope	1.007613
			Intercept	-1.204206



Smoky Heights TRS Calibration



May 23, 2008

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

Calibration Date	June 26, 2008	Previous Calibration	May 12, 2008
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)	8:30	End Time (MST)	11:33
Barometric Pressure	0.906 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	0.996265	Calculated slope	0.986307
Calculated intercept	-0.172236	Calculated intercept	-0.208823

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

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	2.56		2.53	
Coefficient	0.95		0.95	
PMT	-812	V	-812	V
UV Lamp Voltage	1038	V	1042	V
Chamber Temp	45	Deg C	45	Deg C
Pressure	660.7	mm Hg	664.7	mm Hg
Sample Flow	0.469	LPM	0.47	LPM
Lamp Intesity	84%	%	85%	%

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)
4990	0.00	0.0	-0.1	N/A
4988	39.84	79.7	80.8	0.9867
4991	19.91	40.0	41.1	0.9727
4989	9.92	20.0	20.7	0.9646
4990	0.00	0.0	-0.1	As found zero
4988	39.84	79.7	80.8	As found span
Average Correction Factor				0.9747

Calculated value of As Found Response: 80.458 ppm Percent Change of As Found: -0.9%

	before calibration		after calibration	
Auto zero	-0.4	ppm	-0.4	ppm
Auto span	55.3	ppm	55.3	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

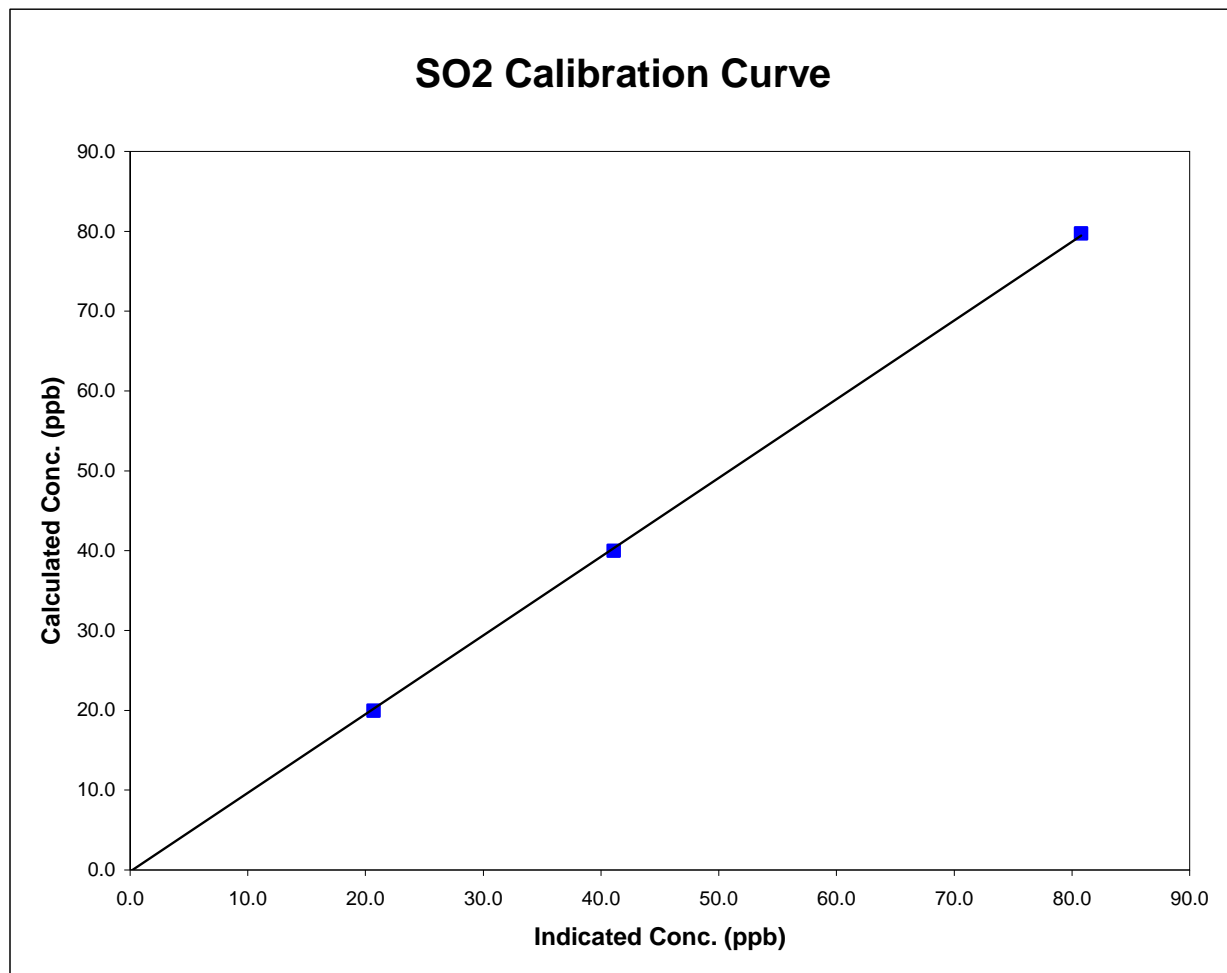
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

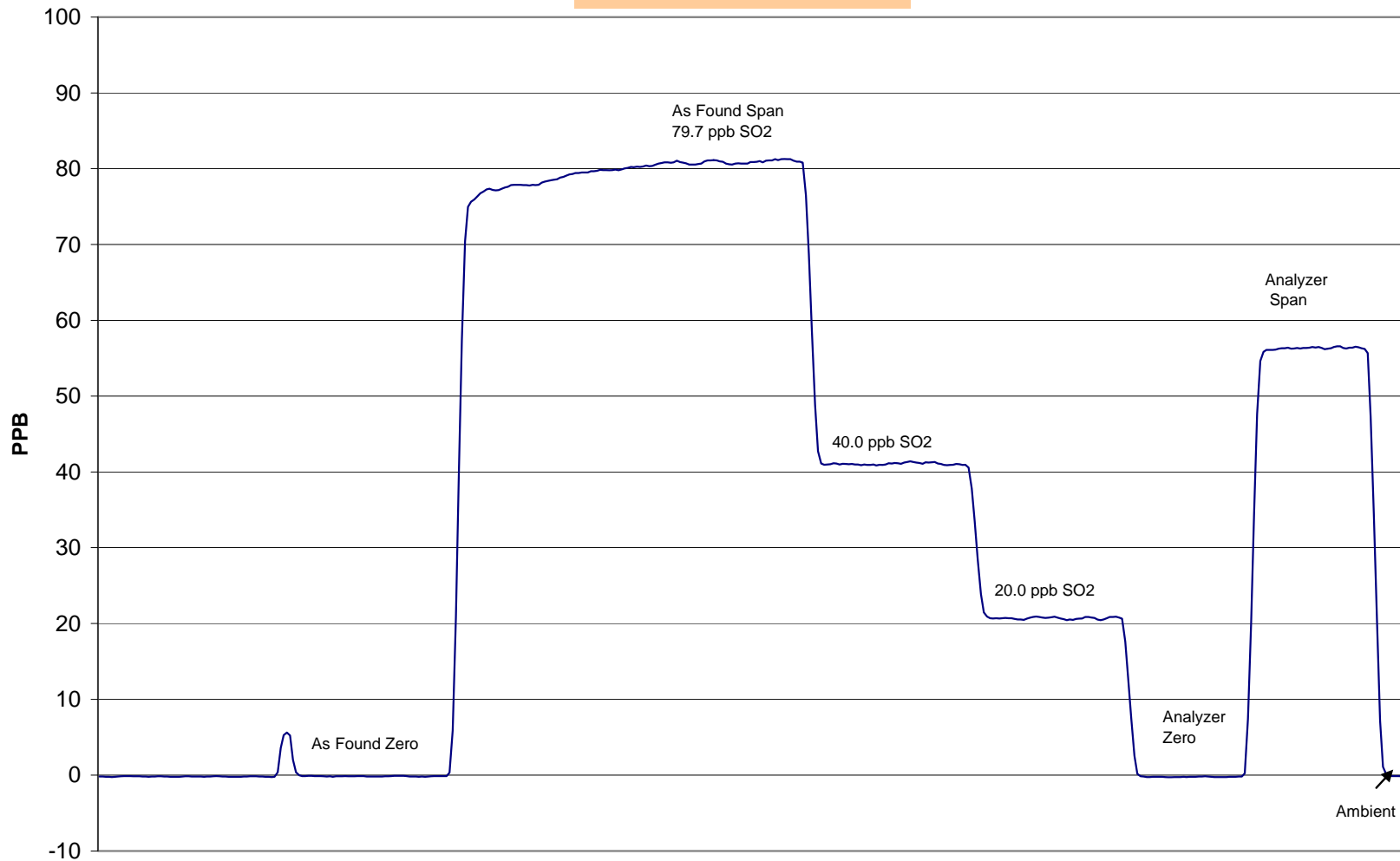
Calibration Date	June 26, 2008	Previous Calibration	May 12, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	8:30	End Time (MST)	11:33
Analyzer make/model	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A		
79.7	80.8	0.9867	Correlation Coefficient	0.999897
40.0	41.1	0.9727		
20.0	20.7	0.9646	Slope	0.986307
			Intercept	-0.208823



Beaverlodge SO₂ Calibration



June 26, 2008

Calibration Report

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

**Station Information**

Calibration Date June 26, 2008 Previous Calibration May 12, 2008
 Station Number 4 Station Location Beaverlodge

Reason: Routine Installation Removal Other: _____

Start Time (MST) 8:30:00 End Time (MST) 13:20:00
 Barometric Pressure 0.908 Atm Station Temperature 20.0 Deg C
 Calibrator EnviroNics 6100 Serial Number 3474
 NO Cal Gas Conc 50.1 ppm Cal Gas Cert. Date 2-Jan-07
 NOx Cal Gas Conc 50.2 ppm Cal Gas Serial # CC 114395

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	Data Slope	1.007093	1.003976	0.993529
	Data Offset	1.423461	-1.037129	-0.850922
After	Data Slope	1.006581	1.009623	1.002217
	Data Offset	1.798291	-1.504445	-1.205142
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

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

Test Point	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
NO background	1.3	ppb	1.3	mV
NOx background	1.3	ppb	1.4	mV
NO coefficient	1.074		1.094	
NOx coefficient	0.999		0.999	
PMT Voltage	-636	V	-636	V
Chamber Temp	49.2	Deg C	49.5	Deg C
Cooler Temp	-2.1	Deg C	-2.1	Deg C
Converter Temp	322.0	Deg C	322.0	Deg C
Sample Flow	0.780	LPM	0.779	LPM
Ozonator Flow	0.084	LPM	0.085	LPM
Pressure	173.7	mm Hg	177.4	mm Hg

Notes: _____

Calibration Report

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



Station Information

Calibration Date: **June 26, 2008** 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	4990	0.00	0.0	0.0	0.0	-0.1	-0.2	-0.2	N/A	N/A
1	4988	39.84	397.8	397.0	0.8	394.6	396.5	-2.3	1.0080	1.0011
2	4991	19.91	199.5	199.1	0.4	199.9	200.7	-1.0	0.9980	0.9920
3	4989	9.92	99.6	99.4	0.2	101.8	101.8	-0.7	0.9786	0.9771
AFZ	4990	0.00	0.0	0.0	0.0	-0.1	-0.2	-0.2	0.0000	0.0000
AFS	4988	39.84	397.8	397.0	0.8	386.1	387.5	-1.8	1.0302	1.0246
Average Correction Factor									0.9948	0.9901

As Found Concentrations: NO_x= 385.2 NO= 386.8 As Found Percent Change NO_x= -3.2% NO= -2.6%

GPT Calibration Data

Dilution Flow 4990 ccm Source Gas Flow 39.82 ccm

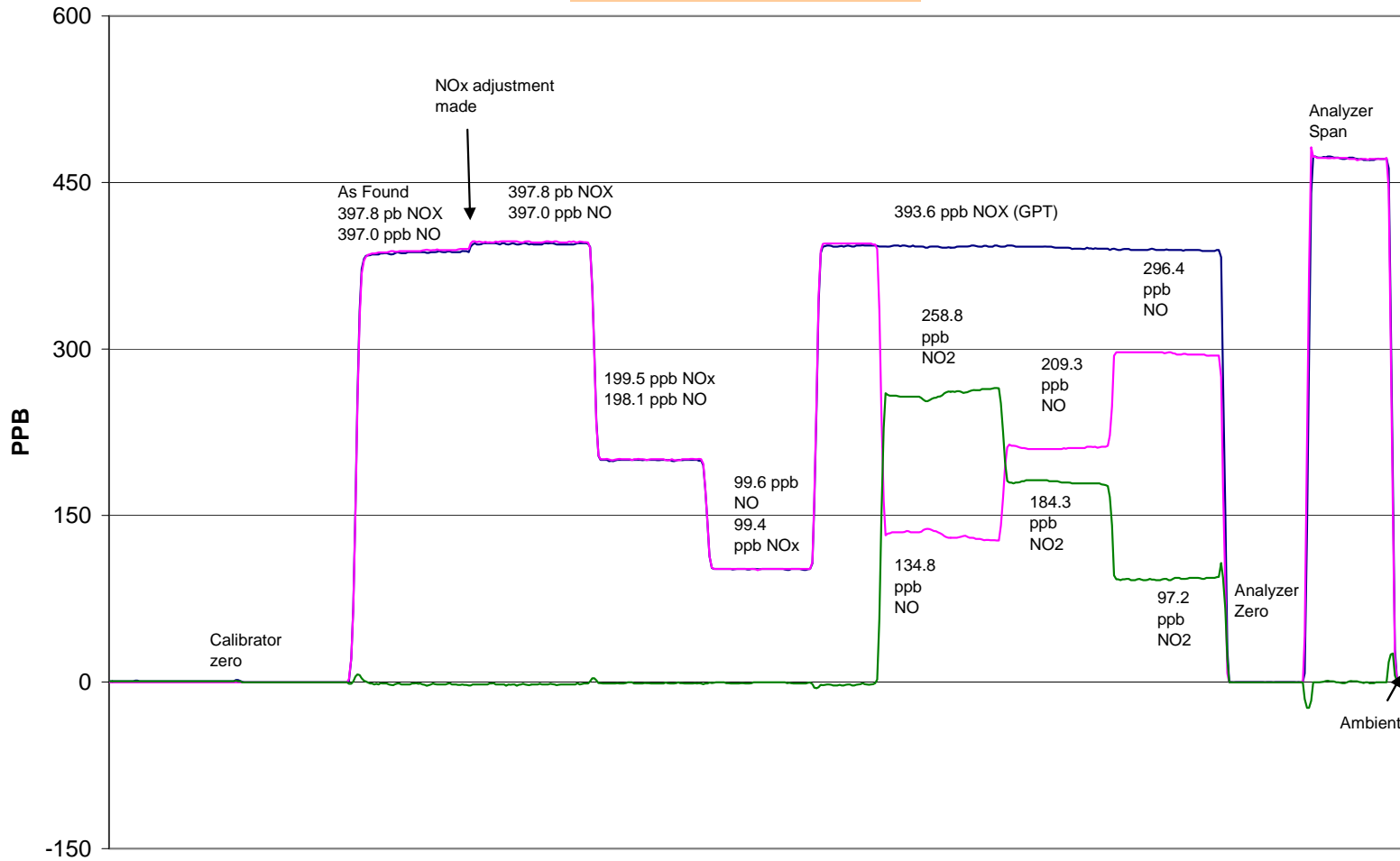
O3 Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	393.6	394.7	-1.1	392.8	395.1	-2.5	1.0020	0.9992	N/A	N/A
300	393.6	134.8	258.8	392.5	135.7	256.2	1.0028	0.9933	1.0101	99.0%
200	393.6	209.3	184.3	392.0	210.1	181.3	1.0041	0.9965	1.0165	98.4%
100	393.6	296.4	97.2	389.5	297.0	92.3	1.0104	0.9982	1.0532	94.9%
Average Correction Factor							1.0058	0.9960	1.0266	97.4%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	-1.2	1.2	-1.1	ppb	-1.6	1.7	-1.3	ppb
Auto span	484.4	-0.6	481.2	ppb	474.5	1.7	471.2	ppb

Calibration Performed By: Conor Whiteley

Beaverlodge NOx Calibration



June 26, 2008

Calibration Summary

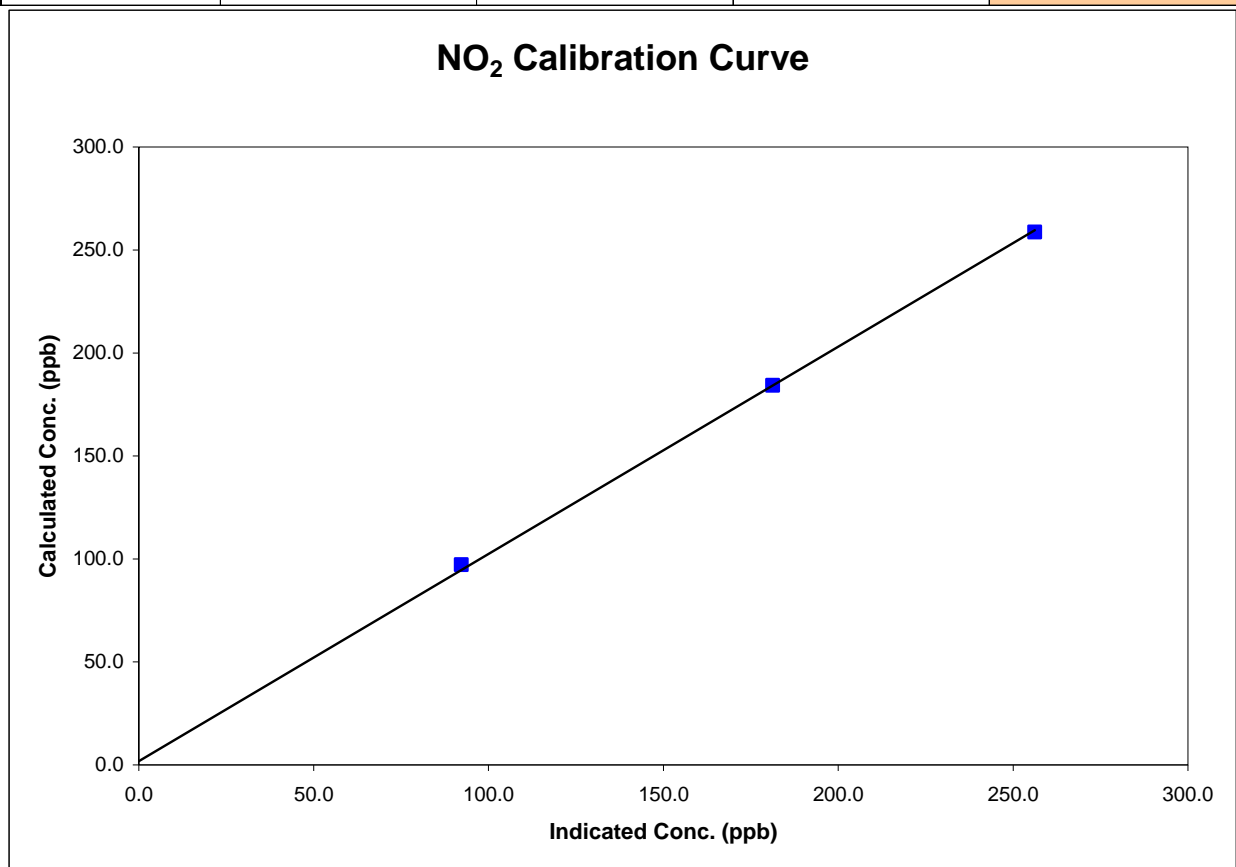
Parameter **NO₂**Air Monitoring Network **PASZA**

Station Information

Calibration Date	June 26, 2008	Previous Calibration	May 12, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	8:30	End Time (MST)	13:20
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	Correlation Coefficient	0.999742
258.8	256.2	1.0101		
184.3	181.3	1.0165	Slope	1.006581
97.2	92.3	1.0532		
			Intercept	1.798291



Calibration Summary

Parameter **NO_x**

Air Monitoring Network **PASZA**



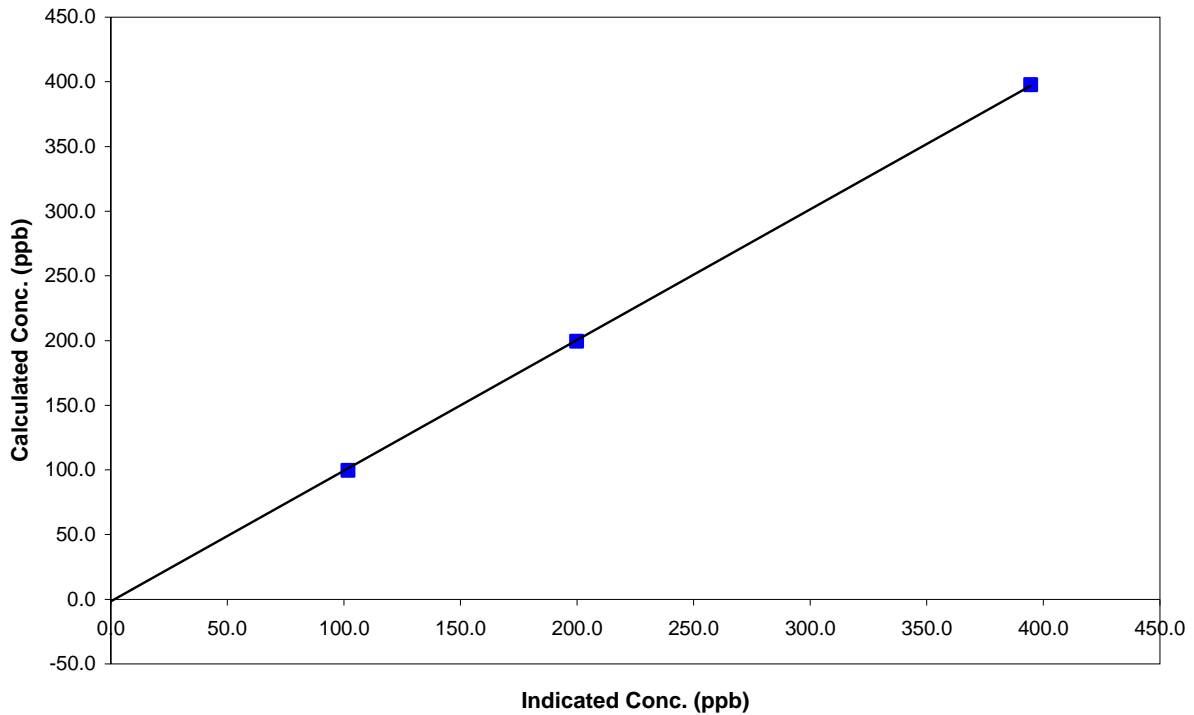
Station Information

Calibration Date	June 26, 2008	Previous Calibration	May 12, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	8:30	End Time (MST)	13:20
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	-0.1	0.0000	Correlation Coefficient	0.999921
397.8	394.6	1.0080		
199.5	199.9	0.9980		
99.6	101.8	0.9786		
			Slope	1.009623
			Intercept	-1.504445

NO_x Calibration Curve



Calibration Summary

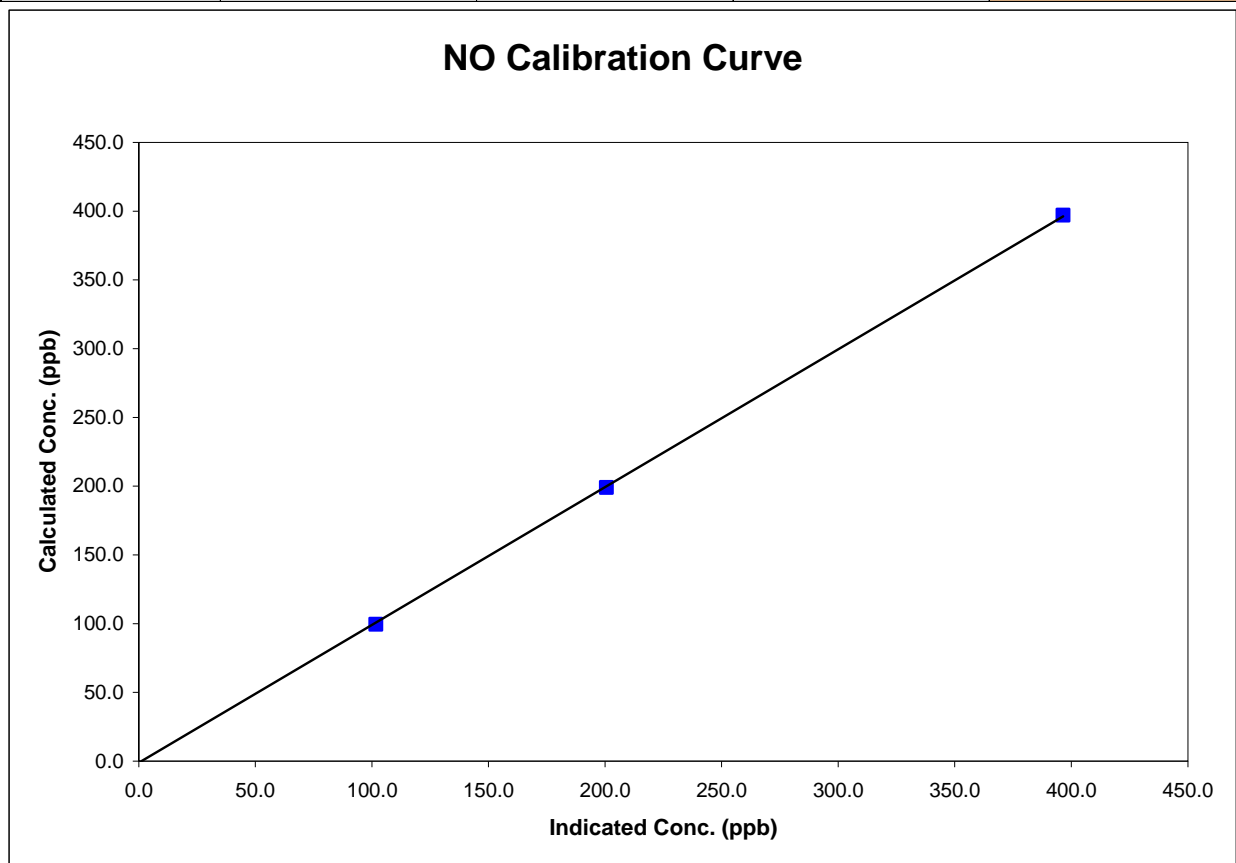
Parameter **NO**Air Monitoring Network **PASZA**

Station Information

Calibration Date	June 26, 2008	Previous Calibration	May 12, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	8:30	End Time (MST)	13:20
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	N/A		
397.0	396.5	1.0011	Correlation Coefficient	0.999940
199.1	200.7	0.9920		
99.4	101.8	0.9771	Slope	1.002217
			Intercept	-1.205142



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

Calibration Date	June 26, 2008	Previous Calibration	May 13, 2008
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)	12:40	End Time (MST)	15:45
Barometric Pressure	0.908 atm	Station Temperature	20.0 Deg C
Calibrator	Enviroics 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	0.997887	Calculated slope	1.004388
Calculated intercept	-0.585641	Calculated intercept	2.898456
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	1.023		0.963	
Lamp temp	56.4	mV	56.5	mV
Lamp Intensity A/B	79324/77530	mV	80716/78665	mV
Pressure	662.2	mm Hg	667.1	mm Hg
Flow A	730	ccm	735	ccm
Flow B	682	ccm	686	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)
4990	0.00	0.0	-0.3	N/A
4990	0.00	258.5	258.7	0.9992
4990	0.00	184.1	174.8	1.0532
4990	0.00	97.1	92.5	1.0492
4990	0.00	0.0	-0.3	As found zero
4990	0.00	258.5	273.3	As found span
Average Correction Factor				1.0339

Calculated value of As Found Response: 272.5 ppm Percent Change of As Found: 5.4%

	before calibration		after calibration	
Auto zero	-0.7	ppb	2.9	ppb
Auto span	117.2	ppb	119.6	ppb

Notes: O3 Adjustment MadeCalibration Performed By: Conor Whiteley

Calibration Summary

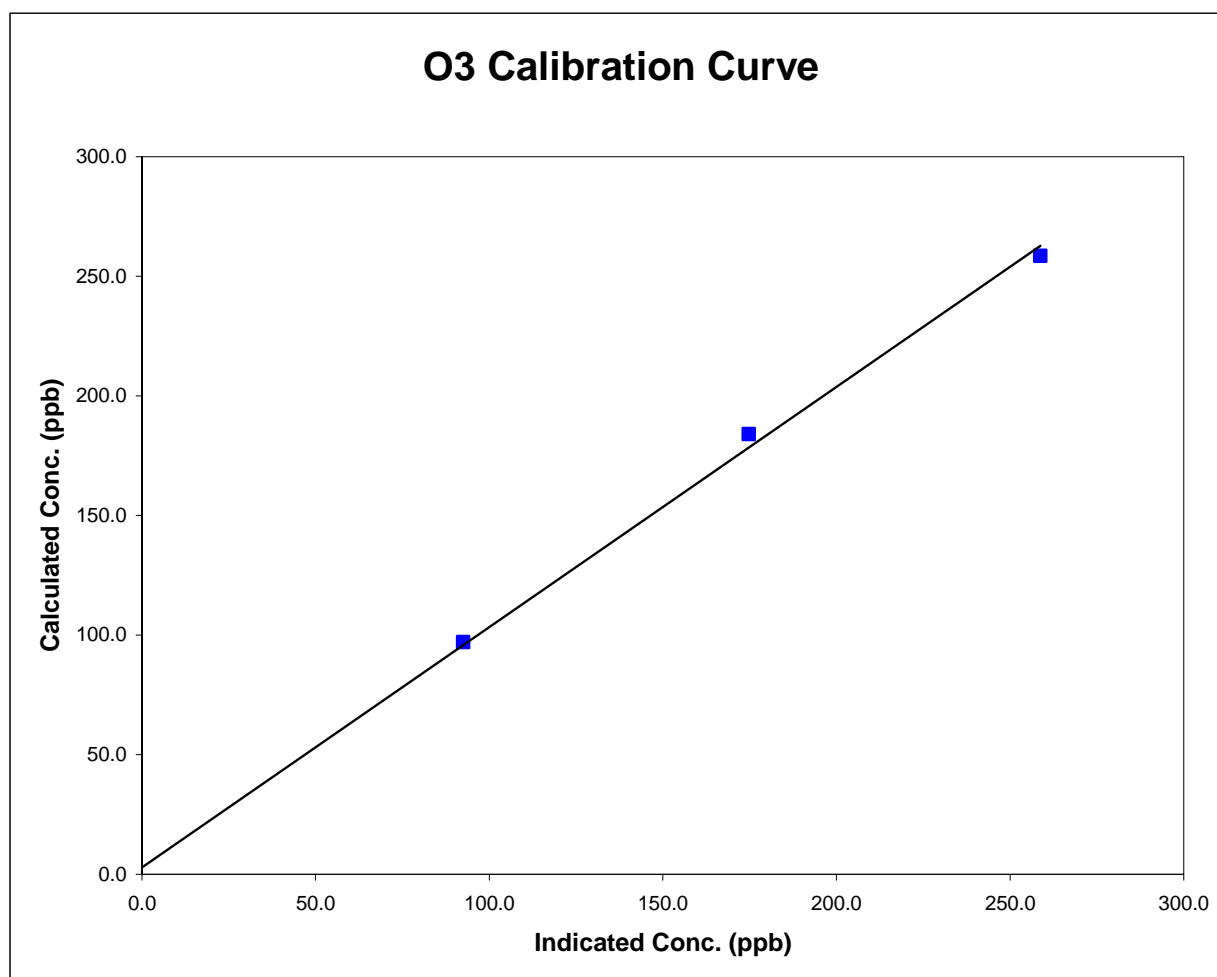
Parameter **O3**Air Monitoring Network **PASZA**

Station Information

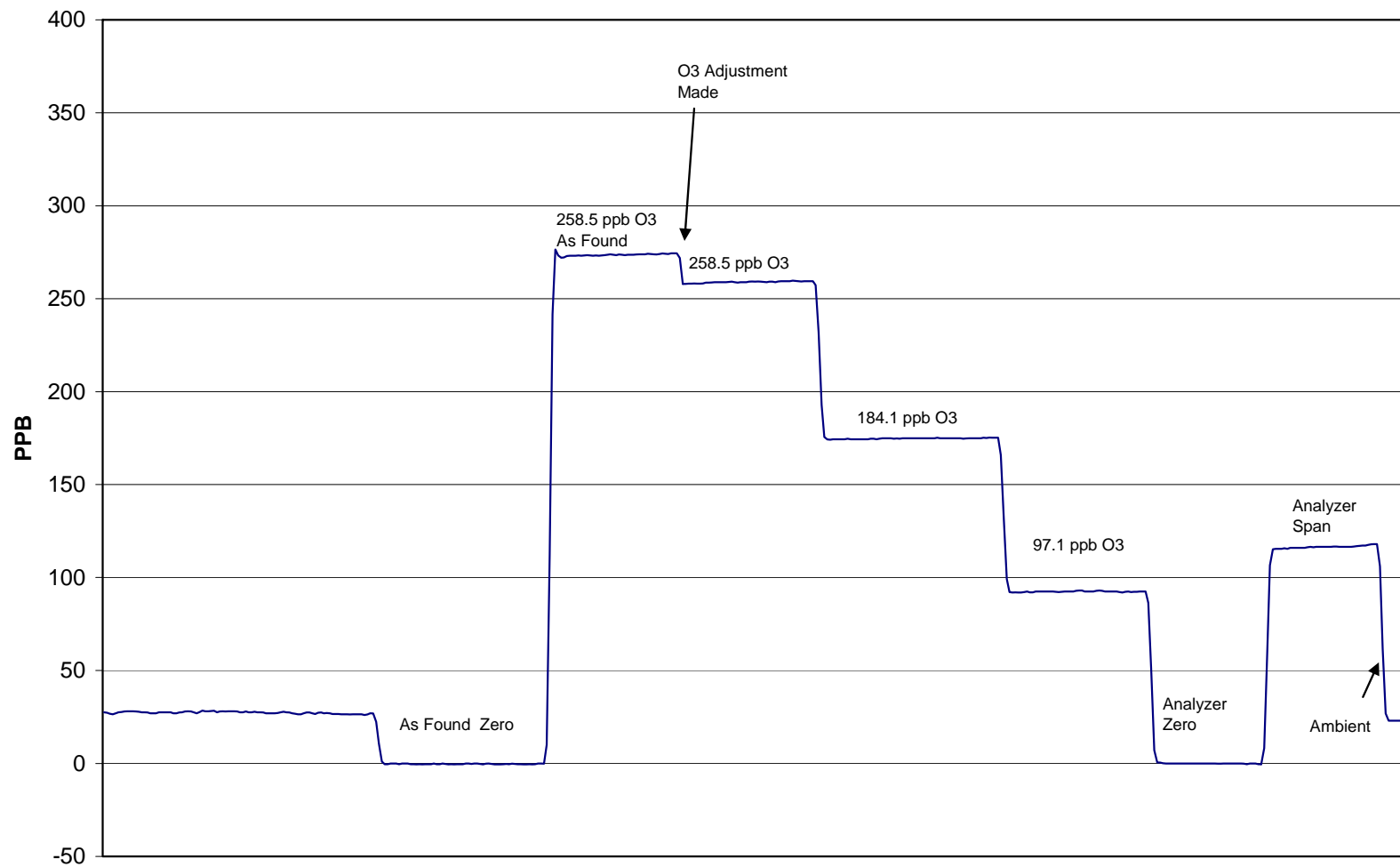
Calibration Date	June 26, 2008	Previous Calibration	May 13, 2008
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	12:40	End Time (MST)	15:45
Analyzer make/model	Teco 49C	Analyzer serial #	49C-76443-383

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	NA		
258.5	258.7	0.9992	Correlation Coefficient	0.998439
184.1	174.8	1.0532		
97.1	92.5	1.0492	Slope	1.004388
			Intercept	2.898456



Beaverlodge O₃ Calibration



June 26, 2008

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

Calibration Date	June 12, 2008	Previous Calibration	May 14, 2008
Station Number	8	Station Location	Rover - Spirit River
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:

Start Time (MST)	10:15	End Time (MST)	13:00
Barometric Pressure	27.69 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
	<u>Before</u>		<u>After</u>
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.013553	Calculated slope	1.023954
Calculated intercept	-1.645856	Calculated intercept	-2.047840

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	733	V	733	V
Chamber Temp	44.6	C	44.6	C
Perm Gas Temp	44.99	C	44.99	C
Pressure	678	mm Hg	678	mm Hg
Sample Flow	488	LPM	488	LPM
Lamp Intesity	34390	Hz	34390	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)
4990	0.00	0.0	0.0	N/A
4990	39.94	399.4	390.8	1.0219
4990	19.85	199.3	198.2	1.0057
4990	9.91	99.7	101.1	0.9863
4990	0.00	0.0	0.0	As found zero
4990	39.94	399.4	390.8	As found span
Average Correction Factor				1.0046

Calculated value of As Found Response: 394.520 ppm Percent Change of As Found: 1.2%

	before calibration		after calibration	
Auto zero	-1.5	ppm	-1.8	ppm
Auto span	258.1	ppm	259.1	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

Parameter **SO2**

Air Monitoring Network **PASZA**

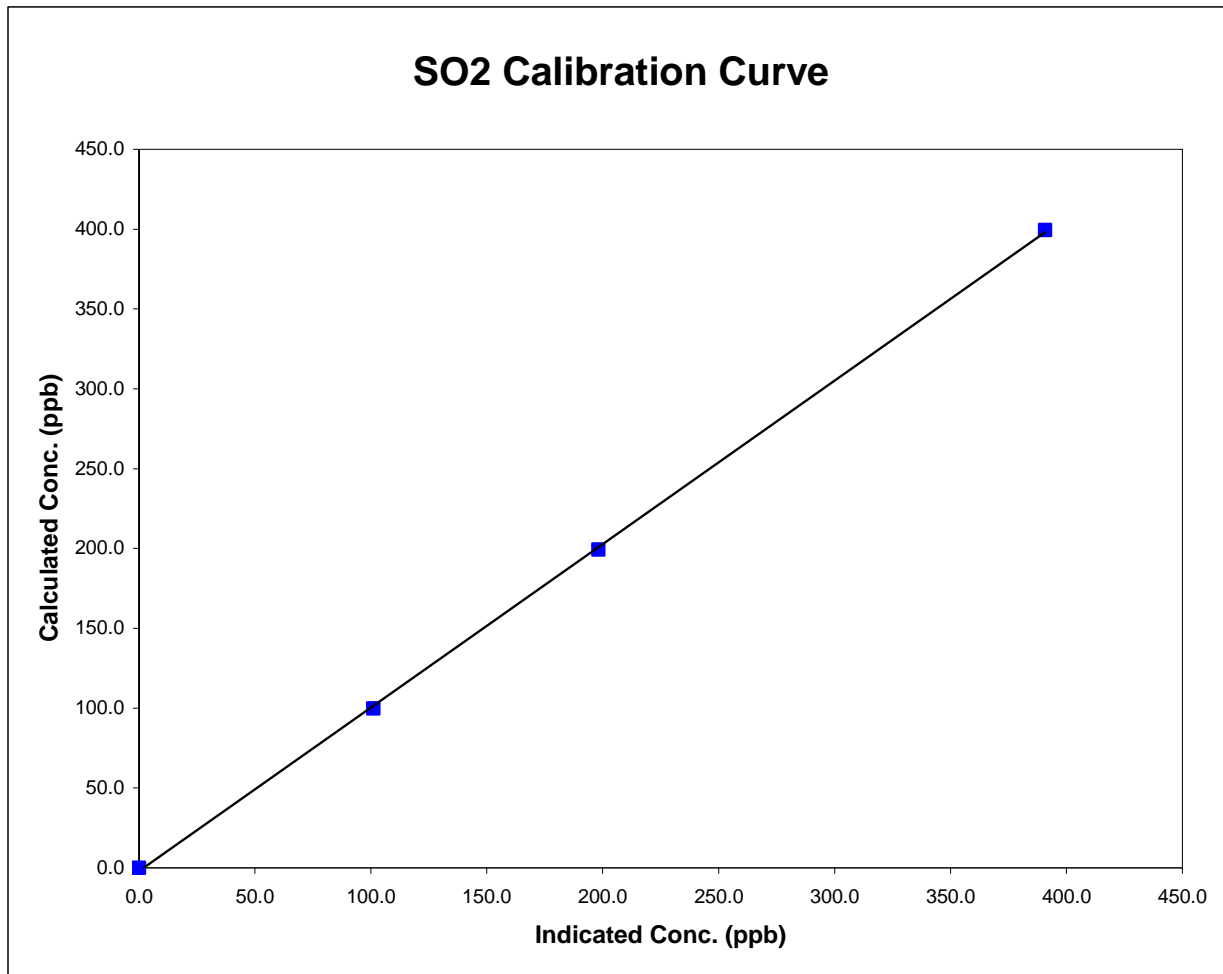


Station Information

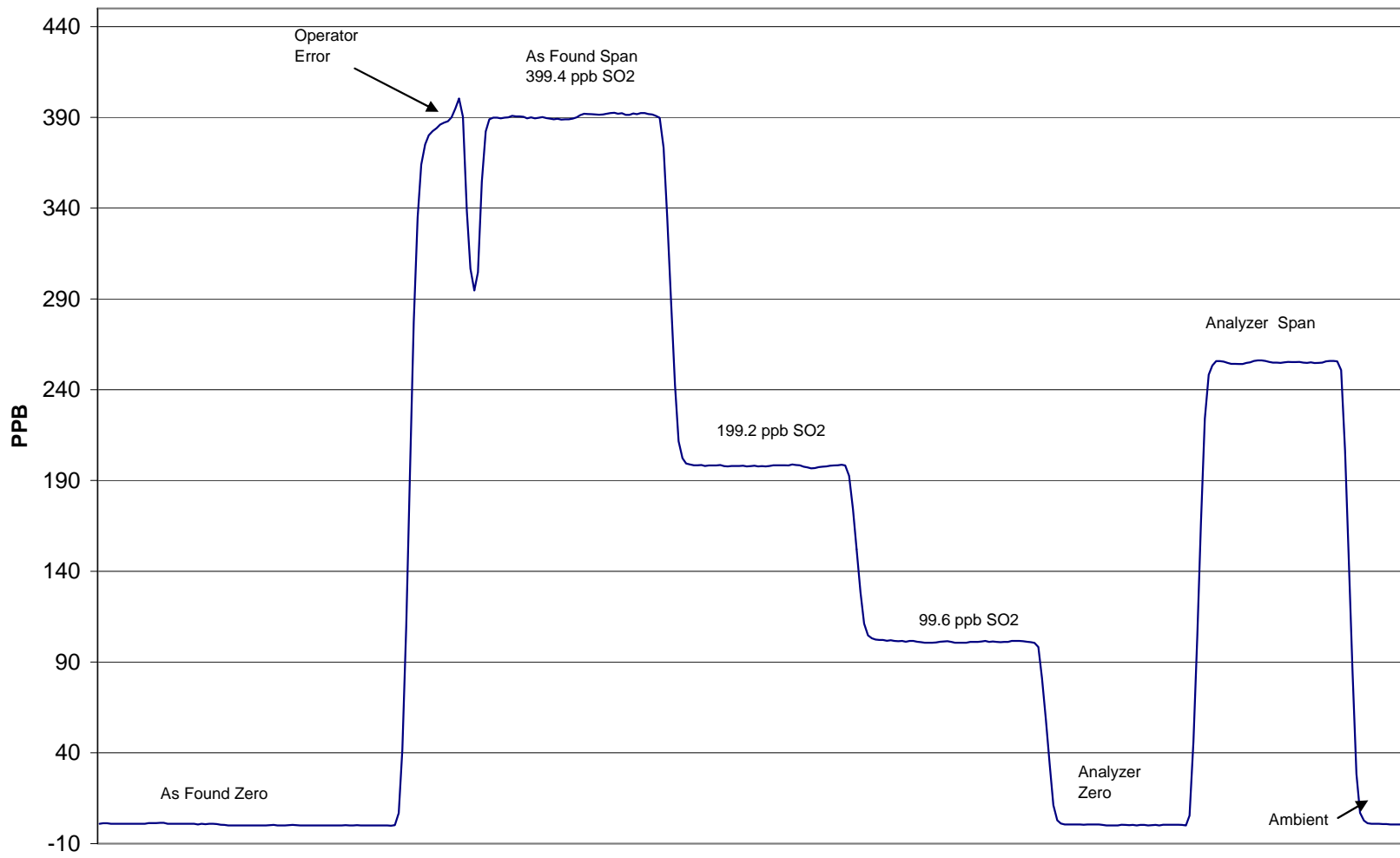
Calibration Date	June 12, 2008	Previous Calibration	May 14, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	10:15	End Time (MST)	13:00
Analyzer make/model	TEI 43C	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
399.4	390.8	1.0219	Correlation Coefficient	0.999869
199.3	198.2	1.0057		
99.7	101.1	0.9863	Slope	1.023954
			Intercept	-2.047840



Spirit River SO₂ Calibration



June 12, 2008

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

Calibration Date	June 13, 2008	Previous Calibration	May 15, 2008
Station Number	6	Station Location	Rover
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:10	End Time (MST)	13:10
Barometric Pressure	27.9 inches Hg	Station Temperature	21.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentration	5.1 ppm	Cal Gas Expiry Date	11/15/2005
Gas Cert Reference	ALM013295		
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 5 volt	DACS channel #	8
	<u>Before</u>		<u>After</u>
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.994830	Calculated slope	0.975167
Calculated intercept	-0.046760	Calculated intercept	-0.065098
Analyzer make	TEI 43C	Analyzer serial #	609716238

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	9.0	ppb	9.0	ppb
Coefficient	1.454		1.454	
Lamp Voltage	804	V	804	V
Chamber Temp	43.8	C	43.8	C
Perm gas Temp	44.90	C	44.90	C
Pressure	667	mmHg	667	mmHg
Sample Flow	438	ccm	438	ccm
Lamp Intensity	38844.0	Hz	38844.0	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)
4986	0.0	0.0	0.0	N/A
4988	79.71	80.2	82.3	0.9741
4986	39.81	40.4	41.4	0.9749
4986	9.92	10.1	10.5	0.9640
4986	0.00	0.0	0.0	As found zero
4986	79.72	80.3	82.3	As found span
Average Correction Factor				0.9710

Calculated value of As Found Response: 81.83 ppm Percent Change of As Found: -2.0%

	before calibration		after calibration	
Auto zero	0.3	ppm	0.1	ppm
Auto span	71.1	ppm	70.7	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

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



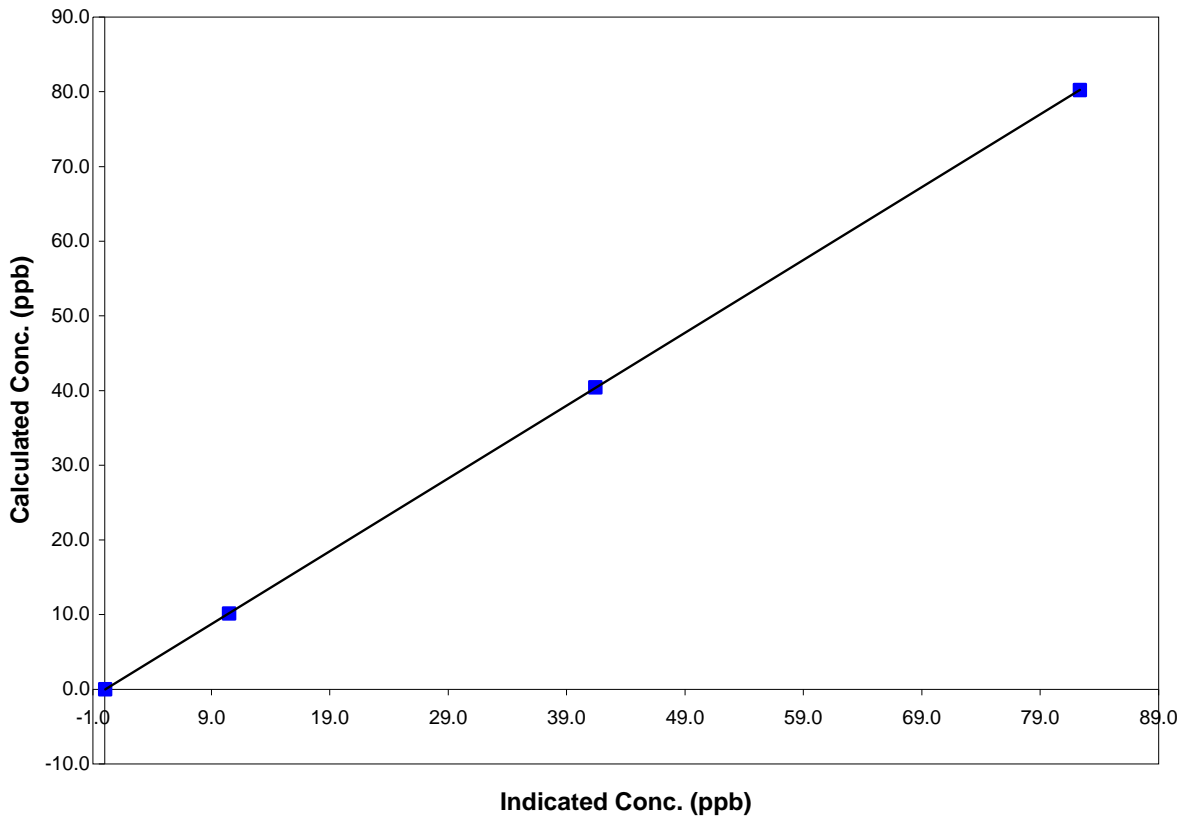
Station Information

Calibration Date	June 13, 2008	Previous Calibration	May 15, 2008
Station Number	6	Station Location	Rover
Start Time (MST)	11:10	End Time (MST)	13:10
Analyzer make/model	TEI 43C	Analyzer serial #	609716238

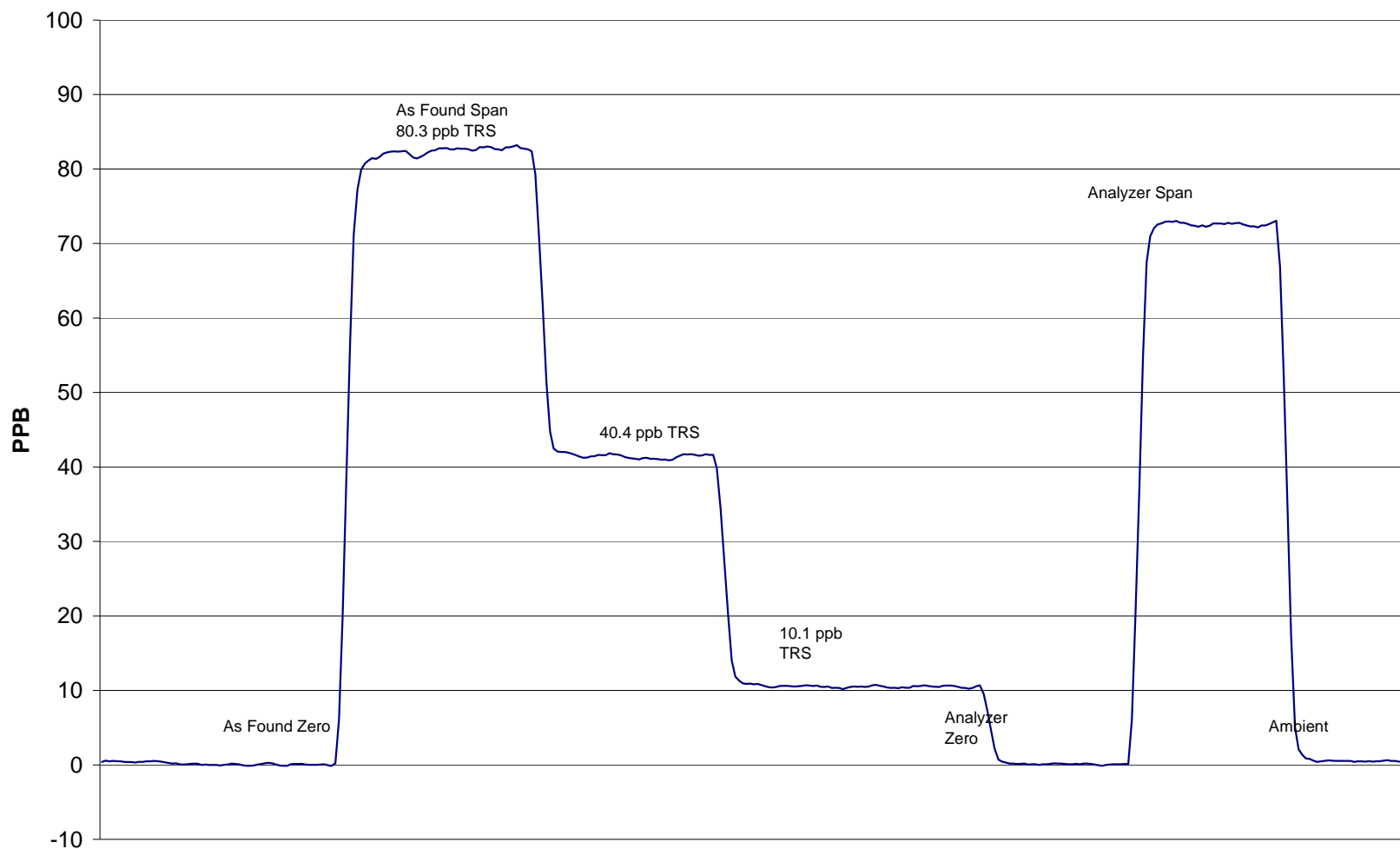
Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
80.2	82.3	0.9741	Correlation Coefficient	0.999998
40.4	41.4	0.9749		
10.1	10.5	0.9640	Slope	0.975167
			Intercept	-0.065098

TRS Calibration Curve



Spirit River TRS Calibration



June 13, 2008

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

Calibration Date	June 12, 2008	Previous Calibration	May 15, 2008
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)	13:45	End Time (MST)	16:30
Barometric Pressure	0.923 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	0.992479	Calculated slope	1.001530
Calculated intercept	-1.174572	Calculated intercept	1.597501

Analyzer make	TEI Model 49C	Analyzer serial #	609-716240
---------------	---------------	-------------------	------------

	before		after	
Concentration range	0-500	ppb	0-500	ppb
Offset	0	ppb	0	ppb
Span	1.209		1.209	
Cell A	75919	Hz	75919	Hz
Cell B	71953	Hz	71953	Hz
Pressure	691	in Hg	691	in Hg
CellA Flow	668	ccm	668	ccm
Cell B Flow	668	cmm	668	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)
4990	0.00	0.0	0.2	N/A
4990	0.00	262.3	262.4	0.9995
4990	0.00	181.0	176.8	1.0240
4990	0.00	96.2	92.9	1.0354
4990	0.00	0.0	0.2	As found zero
4990	0.00	262.3	277.9	As found span
Average Correction Factor				1.0196

Calculated value of As Found Response: 274.5 ppm Percent Change of As Found: 4.7%

	before calibration		after calibration	
Auto zero	0.7	ppb	2.8	ppb
Auto span	222.6	ppb	208.7	ppb

Notes: O3 AdjustedCalibration Performed By: Conor Whiteley

Calibration Summary



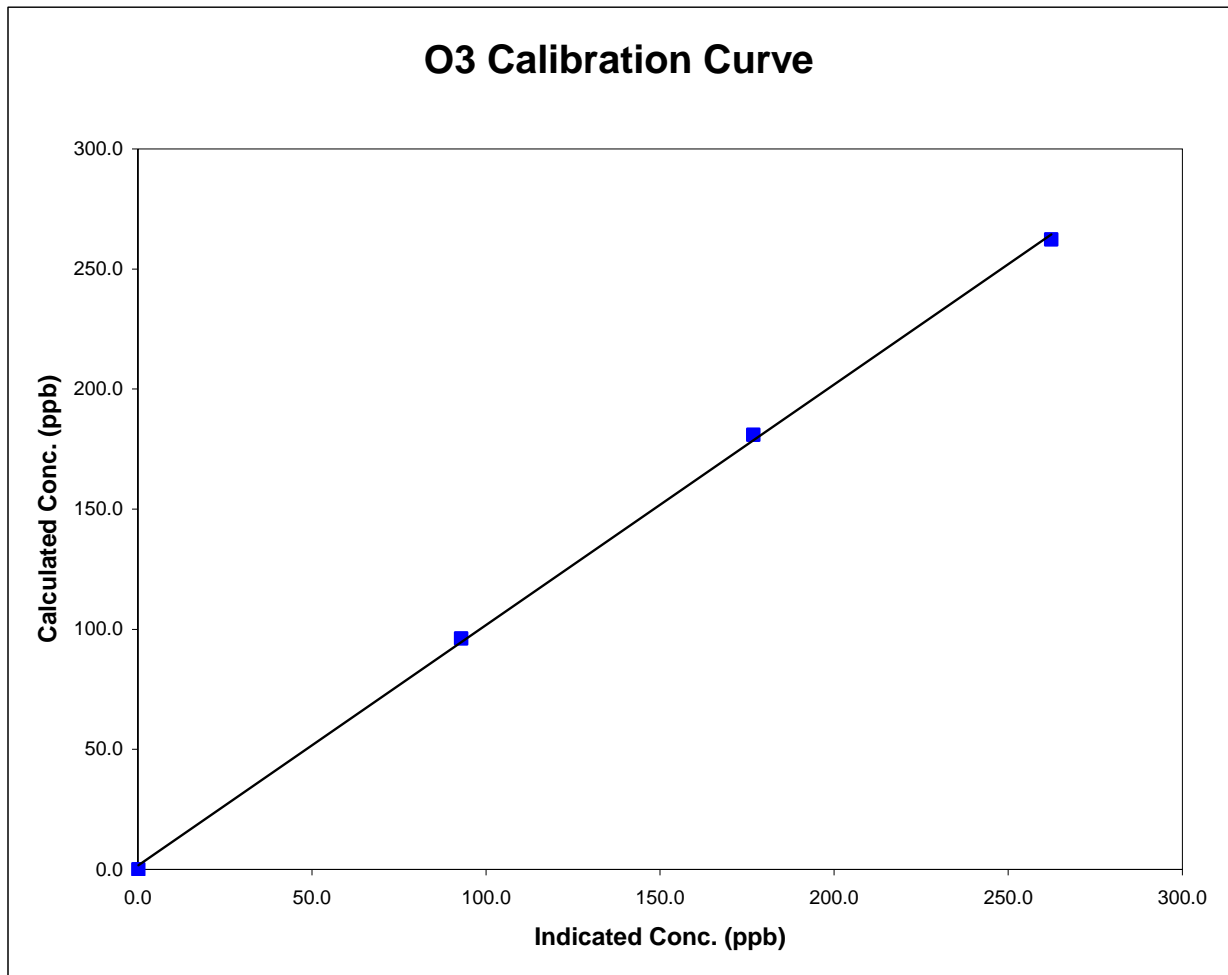
Parameter **O3**
 Air Monitoring Network **PASZA**

Station Information

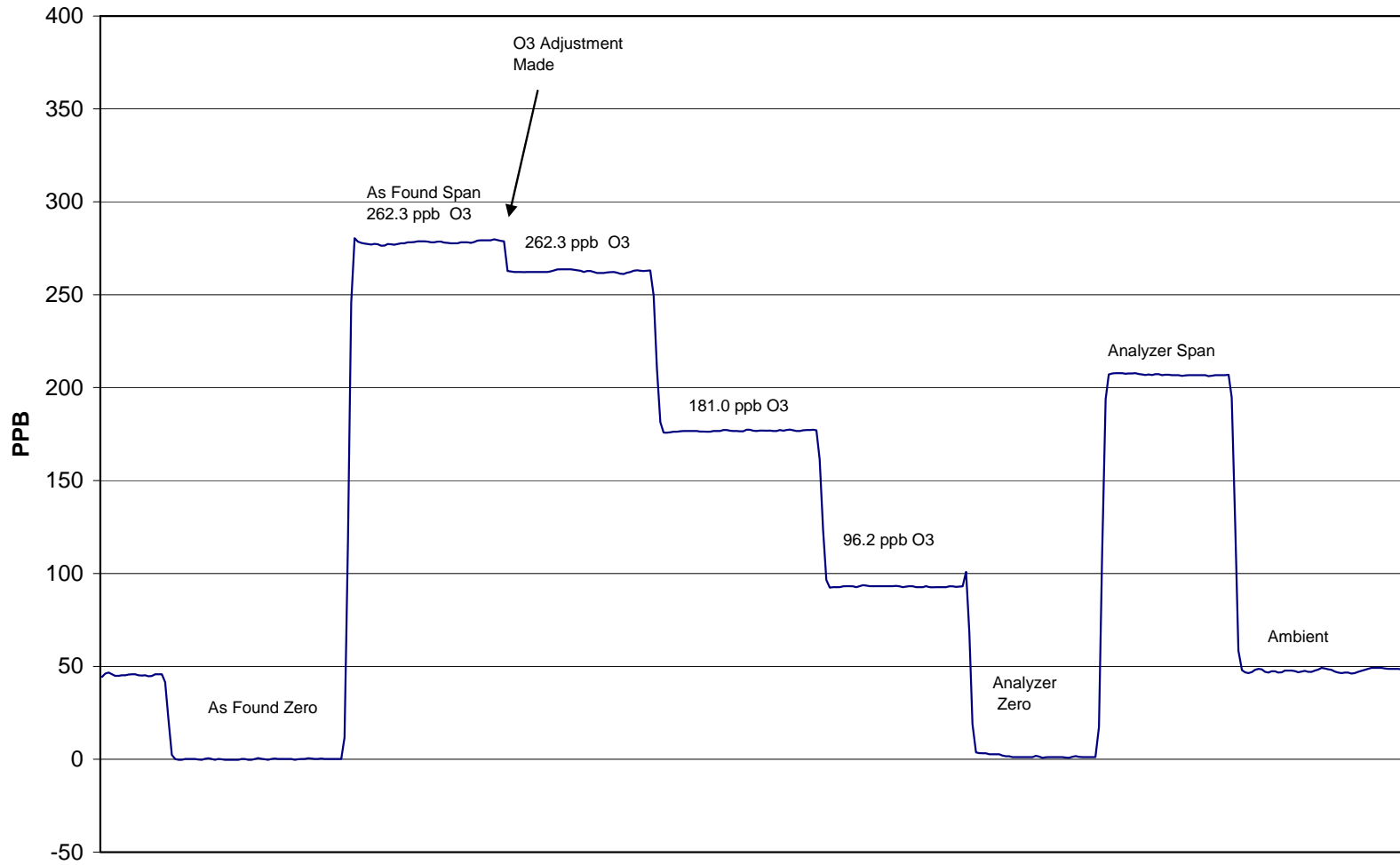
Calibration Date	June 12, 2008	Previous Calibration	May 15, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	13:45	End Time (MST)	16:30
Analyzer make/model	TEI Model 49C	Analyzer serial #	609-716240

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	NA		
262.3	262.4	0.9995	Correlation Coefficient	0.999587
181.0	176.8	1.0240		
96.2	92.9	1.0354	Slope	1.001530
			Intercept	1.597501



Spirit River O₃ Calibration



June 12, 2008

Calibration Report

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

**Station Information**

Calibration Date June 12, 2008 Previous Calibration May 14, 2008
 Station Number 8 Station Location Rover - Spirit River

Reason: Routine Installation Removal Other: _____

Start Time (MST) 10:15 End Time (MST) 14:30
 Barometric Pressure 27.69 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

Parameter		NO2	NOx	NO
Before	Data Slope	1.003080	1.004790	1.005349
	Data Offset	-0.181210	-2.118204	-2.373005
After	Data Slope	1.006224	1.009321	1.009386
	Data Offset	-0.125378	-2.514404	-2.618899
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

Test Point	before		after	
Concentration range	0-500	ppb	0-500	ppb
NO background	5.2	ppb	5.2	mV
NOx background	5.5	ppb	5.5	mV
NO coefficient	0.910		0.910	
NOx coefficient	0.996		0.996	
Chamber Temp	50.2	Deg C	50.2	Deg C
Cooler Temp	-3.1	Deg C	-3.1	Deg C
NO2 Converter Temp	323.9	Deg C	323.9	Deg C
Sample Flow	0.5	ccm	0.5	ccm
Ozonator Flow	OK	LPM	OK	LPM
Pressure	192.6	mm Hg	192.6	mm Hg

Notes: _____

Calibration Report



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

Station Information

Calibration Date: **June 12, 2008** 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	4990	0.00	0.0	0.0	0.0	0.1	0.0	0.3	N/A	N/A	
1	4990	39.94	388.3	388.3	0.0	385.8	385.7	1.0	1.0064	1.0066	
2	4990	19.85	193.8	193.8	0.0	196.1	196.4	0.6	0.9881	0.9867	
3	4990	9.91	96.9	96.9	0.0	100.6	101.0	0.4	0.9635	0.9599	
AFZ	4990	0.00	0.0	0.0	0.0	0.1	0.0	0.3	0.0000	0.0000	
AFS	4990	39.94	388.3	388.3	0.0	385.8	385.7	1.0	1.0064	1.0066	
									Average Correction Factor	0.9860	0.9844

As Found Concentrations: NO_x= 383.6 NO= 383.4 As Found Percent Change NO_x= -1.2% NO= -1.3%

GPT Calibration Data

Dilution Flow 4988 ccm Source Gas Flow 39.82 ccm

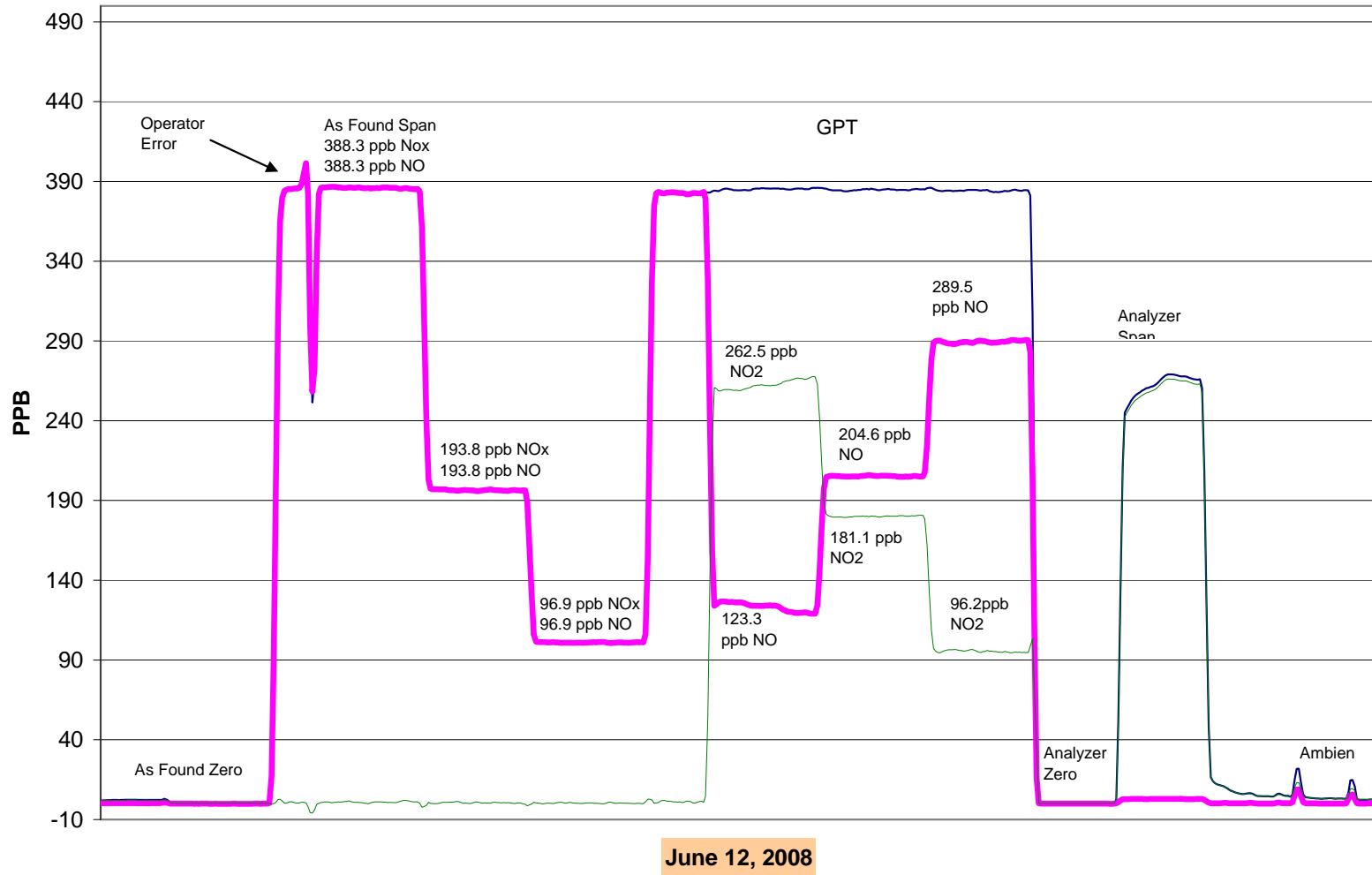
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency	
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A	
NO point	385.8	383.7	2.1	382.9	382.7	1.2	1.0075	1.0025	N/A	N/A	
300	385.8	123.3	262.5	385.1	124.7	261.1	1.0017	0.9884	1.0054	99.5%	
200	385.8	204.6	181.1	384.9	205.3	180.2	1.0023	0.9966	1.0054	99.5%	
100	385.8	289.5	96.2	384.1	289.4	95.5	1.0043	1.0003	1.0082	99.2%	
							Average Correction Factor	1.0028	0.9951	1.0063	99.4%

AIC Data

Parameter	Previous calibration				Current calibration			
	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	1.0	1.0	1.0	ppb	0.7	1.0	0.9	ppb
Auto span	269.1	267.9	0.3	ppb	262.9	261.5	0.3	ppb

Calibration Performed By: Conor Whiteley

Spirit River NOx Calibration



Calibration Summary

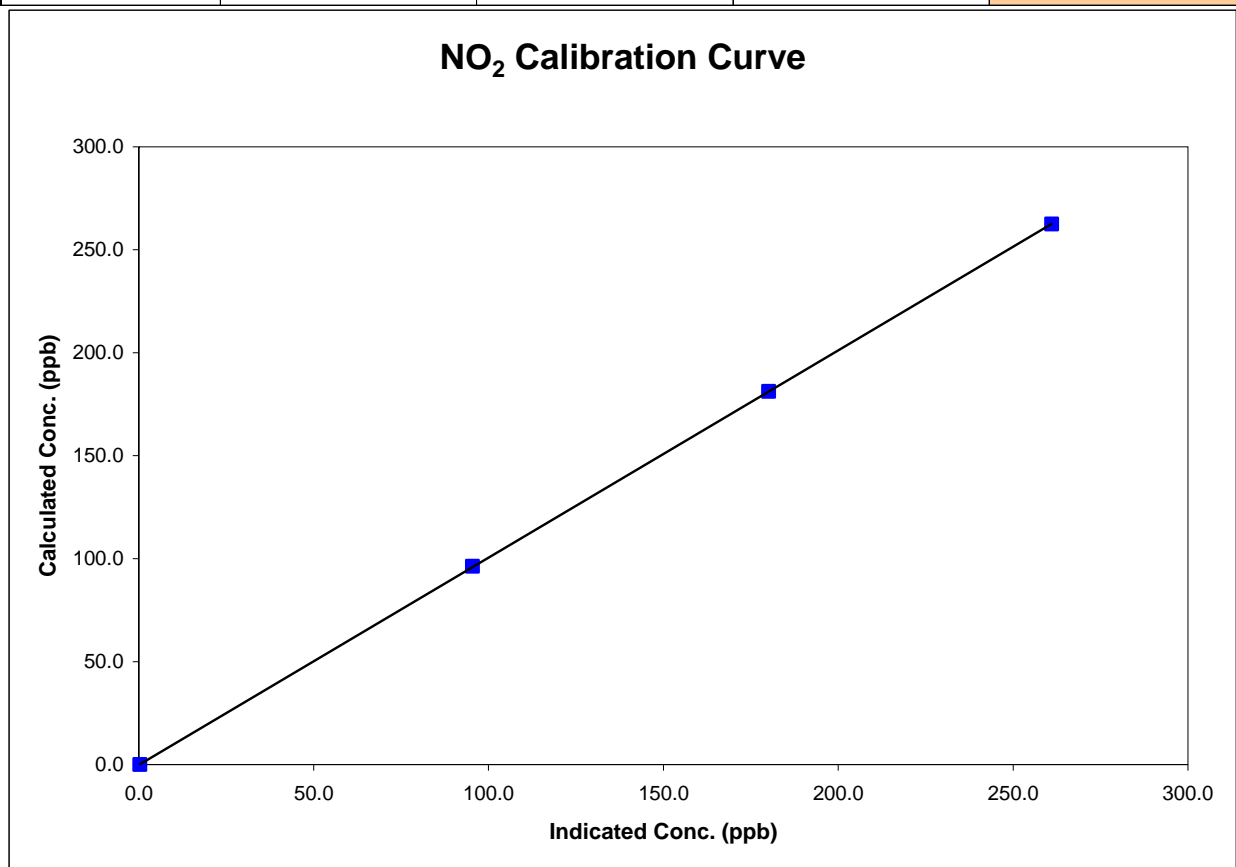
Parameter **NO₂**Air Monitoring Network **PASZA**

Station Information

Calibration Date	June 12, 2008	Previous Calibration	May 14, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	10:15	End Time (MST)	14:30
Analyzer make	TECO 42i	Analyzer serial #	701120011

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	0.0000	Correlation Coefficient	0.999996
262.5	261.1	1.0054		
181.1	180.2	1.0054	Slope	1.006224
96.2	95.5	1.0082		
			Intercept	-0.125378



Calibration Summary

Parameter **NO_x**

Air Monitoring Network **PASZA**



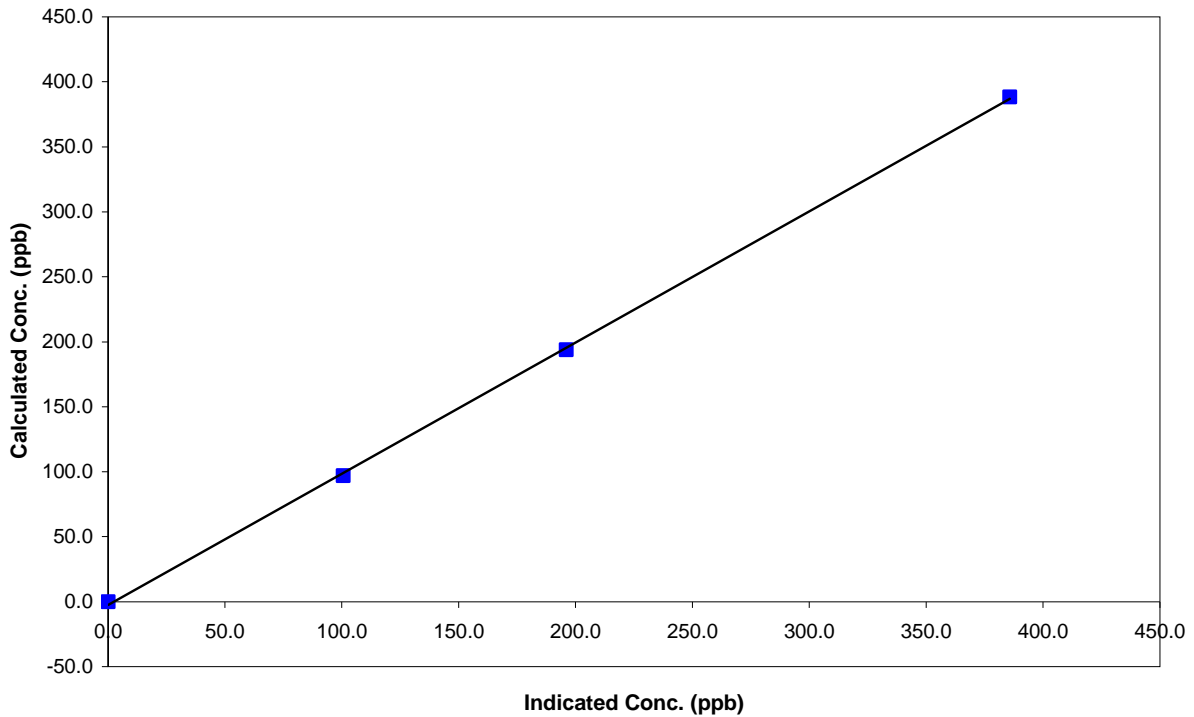
Station Information

Calibration Date	June 12, 2008	Previous Calibration	May 14, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	10:15	End Time (MST)	14:30
Analyzer make	TECO 42i	Analyzer serial #	701120011

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	0.0000	Correlation Coefficient	0.999823
388.3	385.8	1.0064		
193.8	196.1	0.9881		
96.9	100.6	0.9635		
			Slope	1.009321
			Intercept	-2.514404

NO_x Calibration Curve



Calibration Summary

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

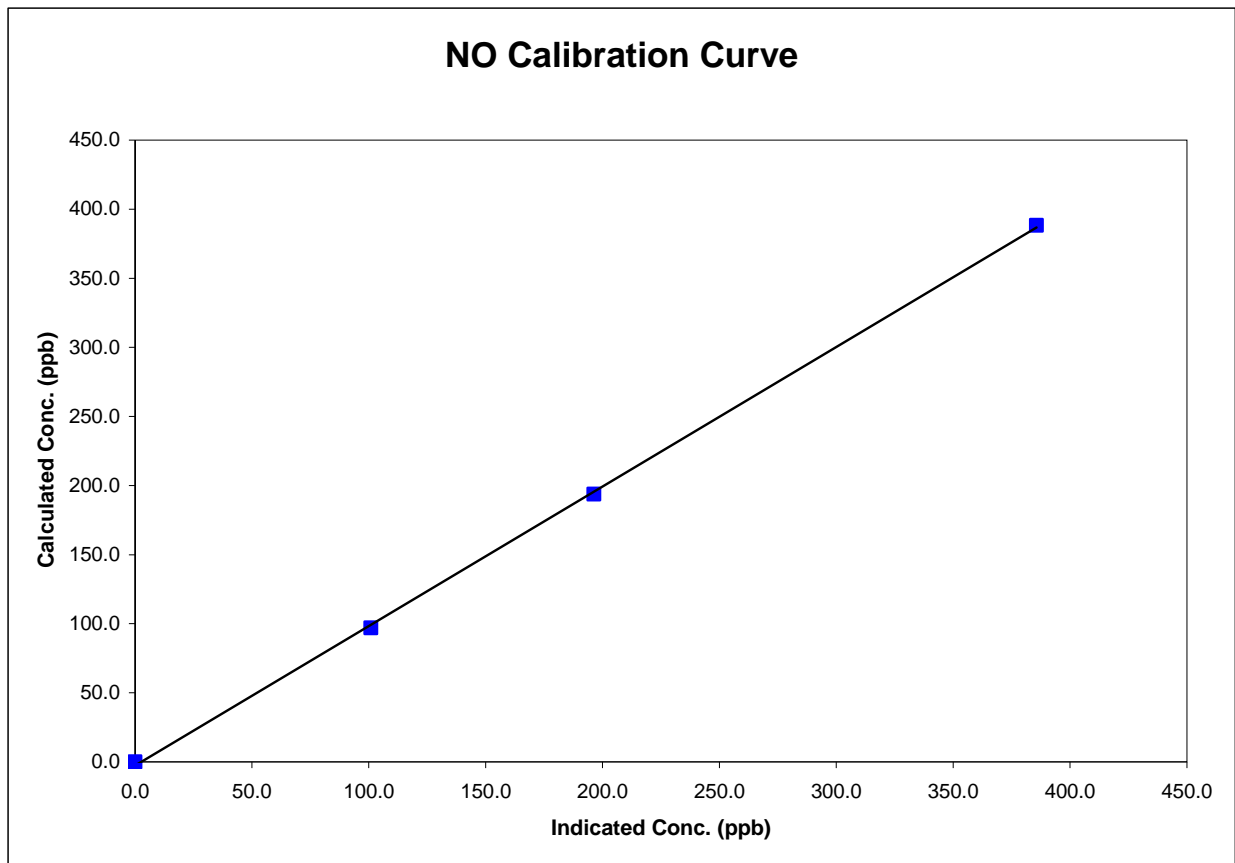


Station Information

Calibration Date	June 12, 2008	Previous Calibration	May 14, 2008
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	10:15	End Time (MST)	14:30
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	Correlation Coefficient	0.999776
388.3	385.7	1.0066		
193.8	196.4	0.9867		
96.9	101.0	0.9599	Slope	1.009386
			Intercept	-2.618899



Calibration ReportParameter **SO2**

Air Monitoring Network

PASZA**Station Information**

Calibration Date	June 2, 2008	Previous Calibration	May 2, 2008
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)	13:35	End Time (MST)	16:10
Barometric Pressure	27.46 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
	<u>Before</u>		<u>After</u>
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.994759	Calculated slope	0.995707
Calculated intercept	-0.791060	Calculated intercept	-1.887880
Analyzer make	TEI 43i	Analyzer serial #	43C-57351-313

	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
Background	27.8		27.8	
Coefficient	0.74		0.74	
UV Lamp Voltage	693	LPM	693	LPM
Chamber Temp	44.2	V	44.2	V
Perm Gas Temp	25.2	C	25.2	C
Pressure	633.9	in Hg	633.9	in Hg
Sample Flow	0.473	LPM	0.473	LPM
Lamp Intesity	45518	Hz	45518	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)
4990	0.00	0.0	-0.3	N/A
4990	39.90	399.0	401.2	0.9946
4990	19.92	200.0	204.9	0.9763
4990	9.93	99.9	103.7	0.9629
4990	0.00	0.0	-0.3	As found zero
4990	39.90	399.0	401.2	As found span
Average Correction Factor				0.9779

Calculated value of As Found Response: 398.521 ppm Percent Change of As Found: 0.1%

	before calibration		after calibration	
Auto zero	-1.0	ppm	-1.8	ppm
Auto span	161.6	ppm	166.5	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

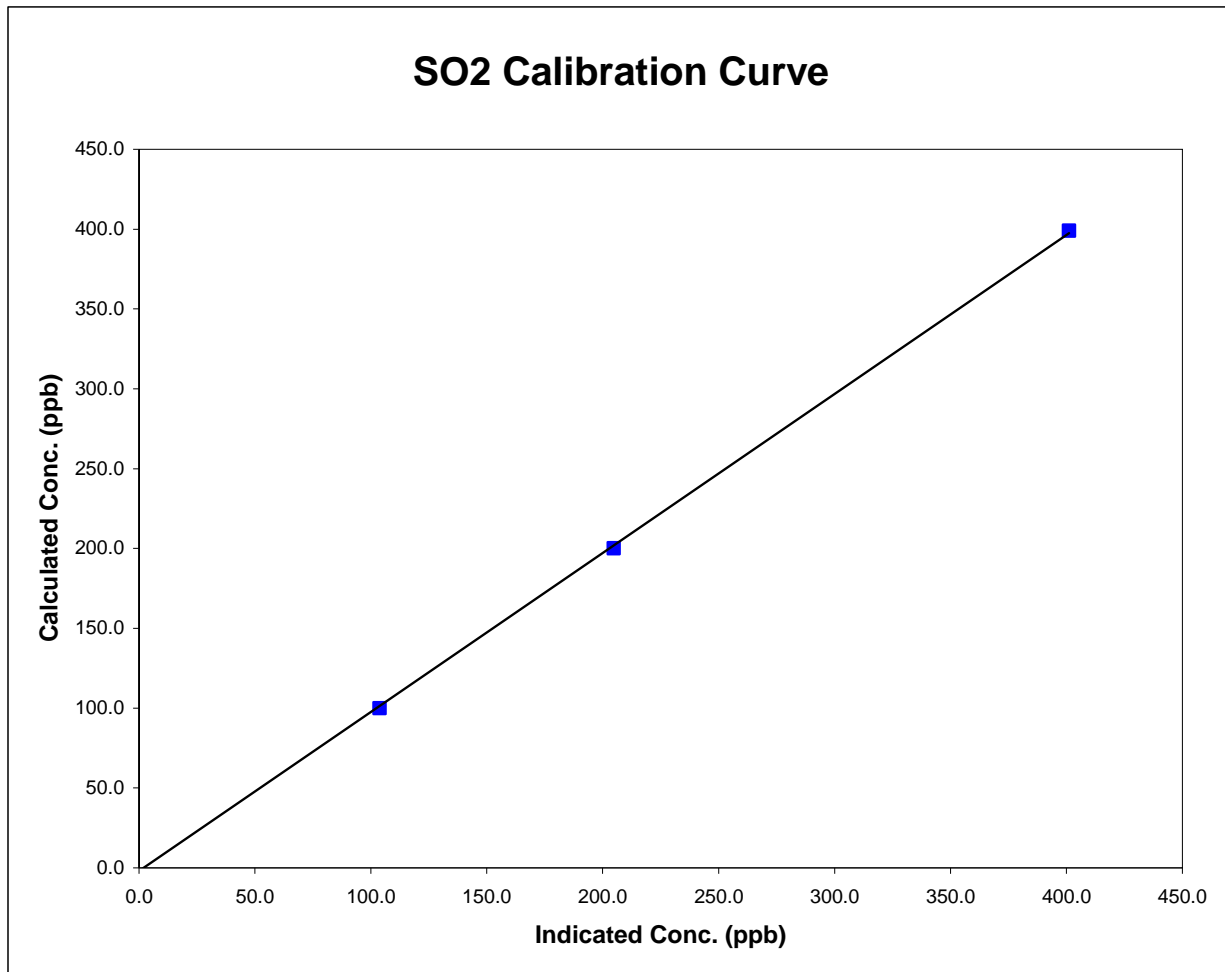
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

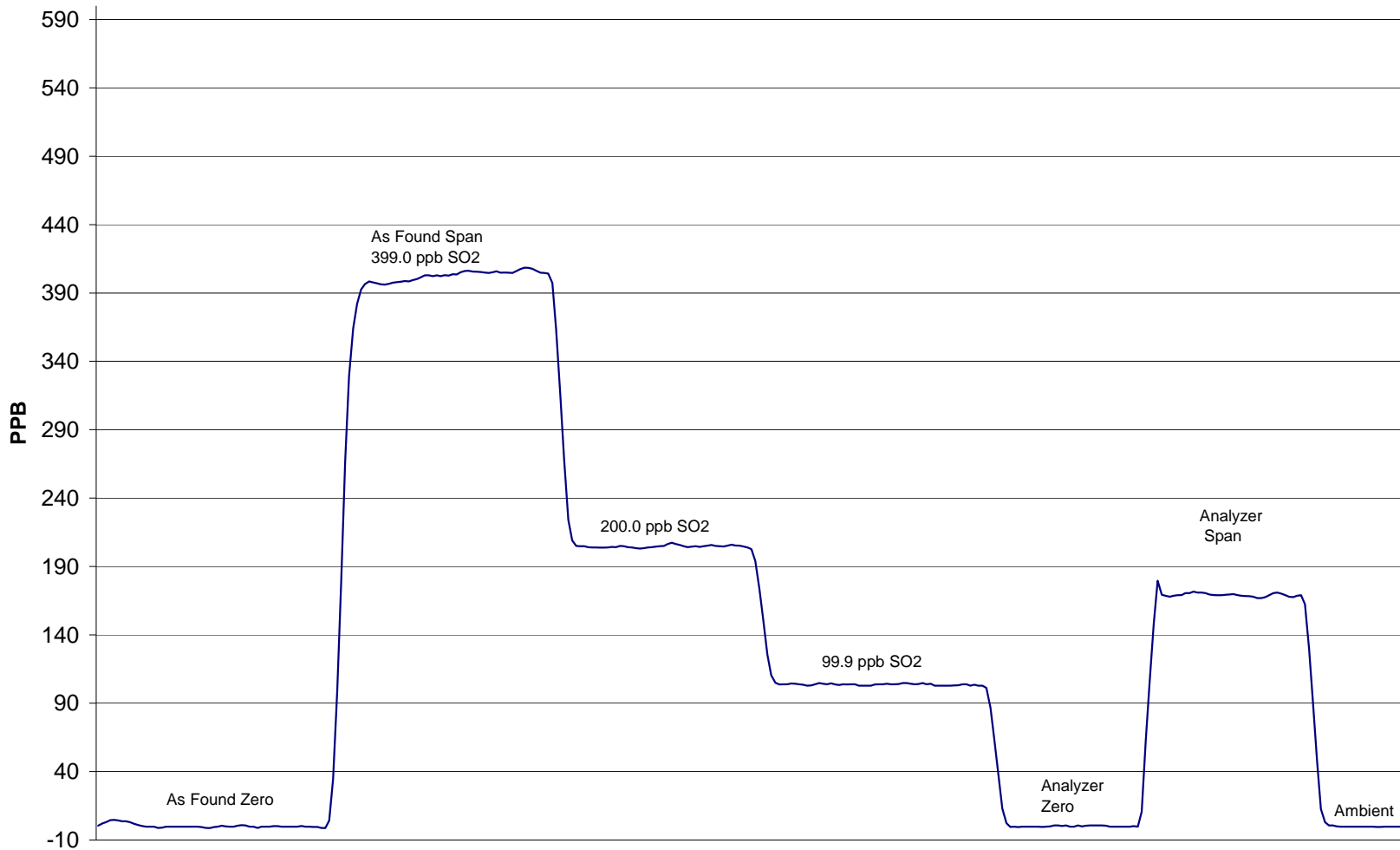
Calibration Date	June 2, 2008	Previous Calibration	May 2, 2008
Station Number	6	Station Location	Valleyview
Start Time (MST)	13:35	End Time (MST)	16:10
Analyzer make/model	TEI 43i	Analyzer serial #	43C-57351-313

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	N/A		
399.0	401.2	0.9946	Correlation Coefficient	0.999846
200.0	204.9	0.9763		
99.9	103.7	0.9629	Slope	0.995707
			Intercept	-1.887880



Valleyview SO₂ Calibration



June 2, 2008

Calibration ReportParameter **H2S**

Air Monitoring Network

PASZA**Station Information**

Calibration Date	June 2, 2008	Previous Calibration	May 2, 2008
Station Number	5	Station Location	Valleyview
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:30	End Time (MST)	14:00
Barometric Pressure	27.46 inches Hg	Station Temperature	23.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentration	5.1 ppm	Cal Gas Expiry Date	4/4/2009
Gas Cert Reference	ALM013295		
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	1.025716	Calculated slope	1.022081
Calculated intercept	0.277156	Calculated intercept	-0.214393
Analyzer make	TEI Model 43A	Analyzer serial #	43A-25575-221

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Back Ground	4.7	ppb	4.7	ppb
Coefficient	1.026		1.026	
Lamp Voltage	798	V	798	V
Chamber Temp	45	c	45	c
Perm Oven Temp	44.99	c	44.99	c
Pressure	642	mm Hg	642	mm Hg
Sample Flow	428	ccm	428	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)
4988	0.00	0.0	0.2	N/A
4988	79.74	80.2	78.6	1.0204
4988	39.86	40.4	39.9	1.0125
4988	9.91	10.1	10.1	1.0038
4988	0.00	0.0	0.2	As found zero
4988	79.79	80.3	78.6	As found span
Average Correction Factor				1.0122

Calculated value of As Found Response: 80.79 ppm Percent Change of As Found: -0.6%

	before calibration		after calibration	
Auto zero	0.2	ppm	-0.1	ppm
Auto span	65.2	ppm	65.0	ppm

Notes:

Calibration Performed By: Conor Whiteley

Calibration Summary

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

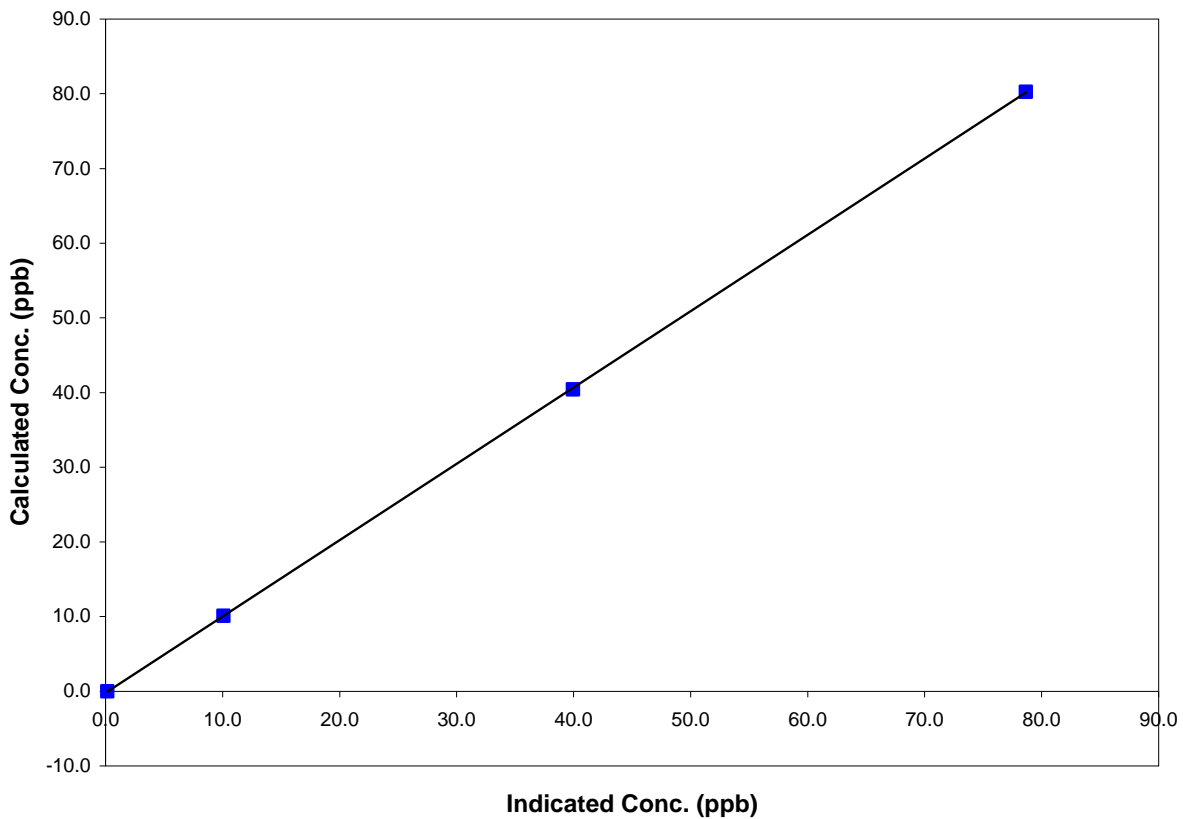
Station Information

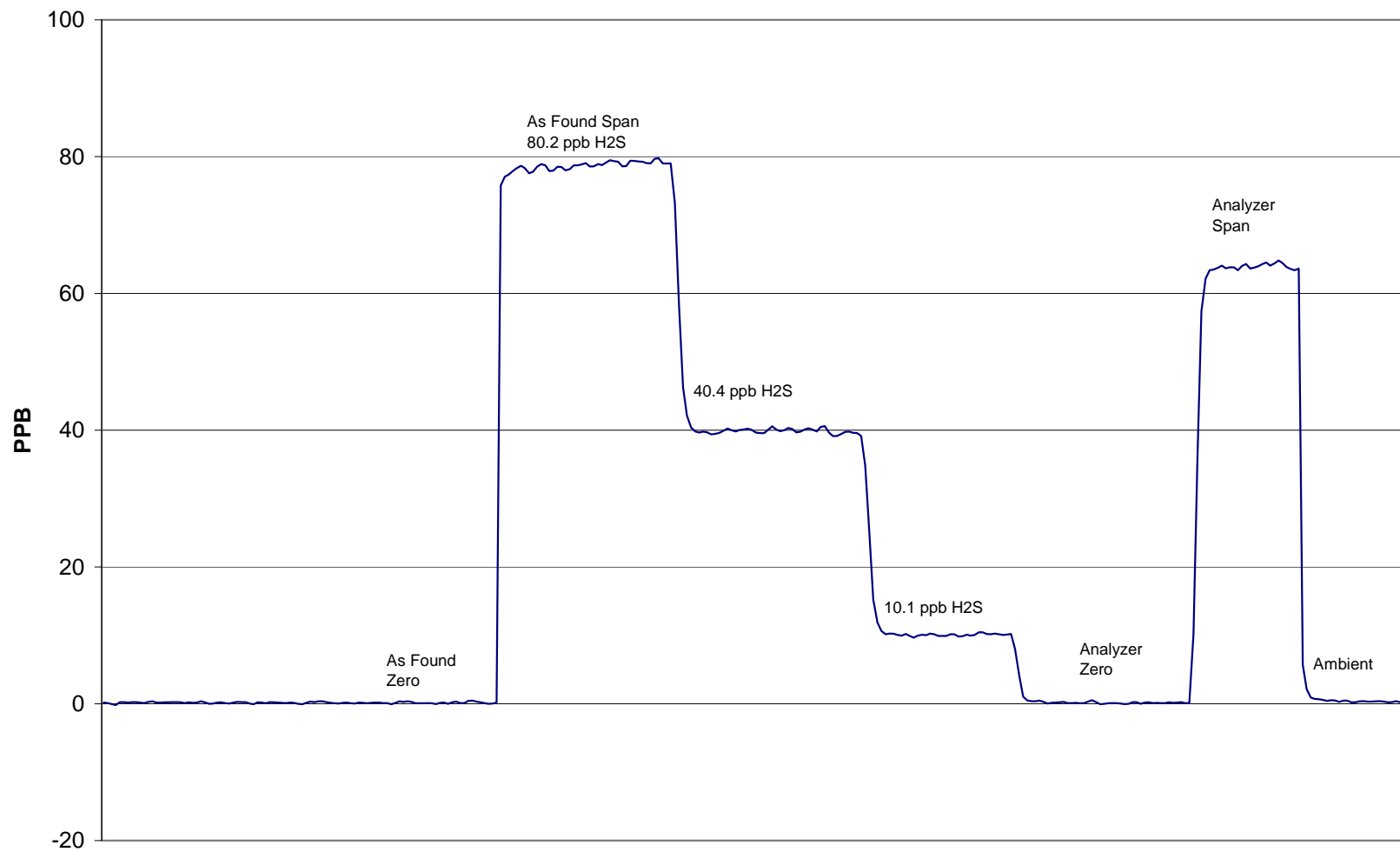
Calibration Date	June 2, 2008	Previous Calibration	May 2, 2008
Station Number	5	Station Location	Valleyview
Start Time (MST)	11:30	End Time (MST)	14:00
Analyzer make/model	TEI Model 43A	Analyzer serial #	43A-25575-221

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	N/A		
80.2	78.6	1.0204	Correlation Coefficient	0.999990
40.4	39.9	1.0125		
10.1	10.1	1.0038	Slope	1.022081
			Intercept	-0.214393

H2S Calibration Curve



Valleyview H₂S Calibration**June 2, 2008**