



Palliser Airshed Society

Ambient Air Monitoring Network Summary

February 2008

Prepared By:



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March 24, 2008

Alberta Environment
12th Floor, Oxbridge Place
9820-106 Street
Edmonton Alberta T6B 2X3

Attention: Director of Monitoring and Evaluation

RE: Palliser Airshed Society (PAS) Ambient Air Monitoring Report – February 2008

Enclosed is the PAS Ambient Monitoring Report for the month of **February 2008**.

Continuous Monitoring – Crescent Heights and Portable-Brooks

Included in this report are; monthly sampling table, detailed hourly average reports and multipoint calibration reports of all instruments.

Crescent Heights:

- ◆ All analyzers and instruments at the Crescent Heights Station were greater than 90% operational for the month of February
- ◆ The measured ambient air quality was within the Provincial and Federal guidelines with no exceedences recorded at the Crescent Heights Station
- ◆ The following is a summary of the monthly averages recorded during sampling:
 - Monthly average concentrations of NO₂ was 12.7 ppb
 - Monthly average concentrations for O₃ was 22.3 ppb
 - Monthly average concentrations for CO was 0.24 ppm
 - Monthly average concentrations for THC was 2.33 ppm
 - Monthly average concentrations for PM_{2.5} was 3.5 µg/m³
- ◆ The Air Quality Index (AQI) recorded 705 hours of Good readings for the month of February.

Portable-Brooks:

- ◆ All pollutant analyzers at the Portable Brooks Station were 100% operational for the month of February.
- ◆ There were ten 1-hr exceedences of the Alberta Objective (10 ppb) for H₂S, and one 24-hr exceedence of the Alberta Objective (3 ppb) in February:
 1. February 4th (23:00-24:00): H₂S 12.6 ppb: **Alberta Environment reference # 197398**.
 2. February 22nd (23:00-24:00): H₂S 22.7 ppb: **Alberta Environment reference # 198130**.
 3. February 23rd (01:00-02:00): H₂S 26.2 ppb: **Alberta Environment reference # 198130**.
 4. February 23rd (02:00-03:00): H₂S 12.9 ppb: **Alberta Environment reference # 198130**.
 5. February 25th (04:00-05:00): H₂S 30.6 ppb: **Alberta Environment reference # 197930**.
 6. February 25th (05:00-06:00): H₂S 21.0 ppb: **Alberta Environment reference # 197930**.
 7. February 25th (06:00-07:00): H₂S 17.7 ppb: **Alberta Environment reference # 197930**.
 8. February 25th (07:00-08:00): H₂S 20.6 ppb: **Alberta Environment reference # 197930**.
 9. February 26th (06:00-07:00): H₂S 12.7 ppb: **Alberta Environment reference # 197963**.
 10. February 27th (23:00-24:00): H₂S 14.0 ppb: **Alberta Environment reference # 197970**.
 11. February 25th (24-hr) H₂S 4.6 ppb: **Alberta Environment reference # 198616**.

- ◆ The following is a summary of the monthly averages recorded during sampling:
 - Monthly average concentrations of SO₂ was 0.8 ppb
 - Monthly average concentrations for H₂S was 0.6 ppb
 - Monthly average concentrations for O₃ was 22.4 ppb



Passive Monitoring – Twenty Sites throughout the PAS zone:

The passive sample analyses were performed by MAXXAM Analytics Inc. There are no results for Site 1 as the samples were not collected due to road closure. There were two duplicate sites sampled in the month of February: Site 6 and Site 16. The following are the ranges for February 2008 recorded by the twenty passive stations located throughout the PAS zone.

- ◆ Average concentrations for SO₂ passives ranged from 0.3 to 0.8 ppb with a mean of 0.5 ppb.
- ◆ Average concentrations for NO₂ passives ranged from 0.4 to 8.9 ppb with a mean of 3.3 ppb.
- ◆ Average concentrations for O₃ passives ranged from 29.9 to 49.2 ppb with a mean of 40.9 ppb.

If you have any questions, please contact the Focus office at 1-888-466-6555 or 1-888-869-2252.

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AQM Environmental Engineer



Continuous Monitoring

Ambient Air Monitoring Network

Crescent Heights Station

General Station Issues

Routine monthly calibrations were performed on February 20th (NO_x and O₃), February 21st (CO) and February 29th (THC and PM_{2.5}).

Parameter	Make	Model	Units	Notes
Ozone	TECO	43I	ppb	No operational problems observed.
Nitrogen Dioxide	Teledyne - API	200E	ppb	No operational problems observed.
Total Hydrocarbons	Bendix	400A	ppm	No operational problems observed.
Carbon Monoxide	TEI	49C	ppm	No operational problems observed.
PM _{2.5}	R&P TEOM	1400ab	µg/m ³	Three (3) hours were flagged for excessive baseline drift. No other operational problems observed.
Wind Speed	Met One	010C	kph	No operational problems observed.
Wind Direction	Met One	020C	Deg	No operational problems observed.
Ambient Temperature	Met One	083D	DegC	No operational problems observed.
Relative Humidity	Met One	083D	%	No operational problems observed.
Solar Radiation	Met One	096-1	W/m ²	No operational problems observed.
Data Acquisition System	Titan Logix	AP1000		No operational problems observed.



Continuous Monitoring

Ambient Air Monitoring Network

Portable-Brooks Station

General Station Issues

Routine monthly calibrations were performed on February 21st (O₃, SO₂ and H₂S).

Parameter	Make	Model	Units	Notes
Ozone	Teledyne - API	400E	ppb	No operational problems observed.
Sulphur Dioxide	TEI	43A	ppb	No operational problems observed.
Hydrogen Sulphide	TEI	43A	ppb	There were ten 1-hr exceedences of the Alberta Objective (10 ppb) for H ₂ S, and one 24-hr exceedence of the Alberta Objective (3 ppb) in February: February 4 th H ₂ S 12.6 ppb: Alberta Environment reference # 197398. February 22 nd H ₂ S 22.7 ppb: Alberta Environment reference # 198130. February 23 rd H ₂ S 26.2 ppb: Alberta Environment reference # 198130. February 23 rd H ₂ S 12.9 ppb: Alberta Environment reference # 198130. February 25 th H ₂ S 30.6 ppb: Alberta Environment reference # 197930. February 25 th H ₂ S 21.0 ppb: Alberta Environment reference # 197930. February 25 th H ₂ S 17.7 ppb: Alberta Environment reference # 197930. February 25 th H ₂ S 20.6 ppb: Alberta Environment reference # 197930. February 26 th H ₂ S 12.7 ppb: Alberta Environment reference # 197963. February 27 th H ₂ S 14.0 ppb: Alberta Environment reference # 197970. February 25 th (24-hr) H ₂ S 4.6 ppb: Alberta Environment reference # 197930. No operational problems observed.
Wind Speed	Blue Sky		kph	No operational problems observed.
Wind Direction	Blue Sky		Deg	No operational problems observed.
Data Acquisition System	Titan Logix	AP1000		No operational problems observed.



February 2008 Monthly Overall Summary Report

Ambient Air Quality Data

Feb-2008		Palliser Airshed Society						Maximum Recorded Values					
								1-hr			24-hr / 8-hr		
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		Conc	Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	
	1-hr	24-hr			1-hr	24-hr							
NO (ppb)			Crescent Heights	5.6	-	-	94.7	Feb-22 09:00	4.4	S	23.3	Feb-22	
NO ₂ (ppb)	212	106	Crescent Heights	12.7	0	0	41.5	Feb-26 03:00	7.6	SW	26.1	Feb-22	
NO _x (ppb)			Crescent Heights	18.0	-	-	131.1	Feb-22 09:00	4.4	S	49.1	Feb-22	
O ₃ (ppb)	82		Crescent Heights	22.3	0	-	41.3	Feb-29 13:00	M	N	33.4	Feb-15	
O ₃ (ppb) - 8-hr		65	Crescent Heights		0							37.1	Feb-13
CO (ppm)	13		Crescent Heights	0.24	0	-	0.9	Feb-22 09:00	4	S	0.5	Feb-21	
CO (ppm) - 8-hr		5	Crescent Heights		0							0.6	Feb-21
THC (ppm)			Crescent Heights	2.33	-	-	3.3	Feb-01 23:00	5.0	ENE	2.8	Feb-02	
PM _{2.5} (µg/m ³)		30	Crescent Heights	3.5	0	0	24.3	Feb-23 04:00	3.9	NE	9.4	Feb-23	
RH (%)			Crescent Heights	68.8	-	-	-					-	-
SR (W/m ²)			Crescent Heights	98.6	-	-	-					-	-
Temp (°C)			Crescent Heights	-7.3	-	-	-					-	-
WSPD v (km/hr)			Crescent Heights	10.4	-	-	39.4	Feb-05 19:00	39.4	SSW	20.5	Feb-15	
WSPD s (km/hr)			Crescent Heights	11.0	-	-	39.5	Feb-05 19:00	39.5	SSW	20.8	Feb-15	
WDIR			Crescent Heights	W	-	-	-					-	-
SO ₂ (ppb)	172	57	Portable-Brooks	0.8	0	0	8.2	Feb-01 11:00	4.9	N	3.8	Feb-01	
O ₃ (ppb)	82		Portable-Brooks	22.4	0	-	47.6	Feb-23 15:00	4.1	N	32.9	Feb-17	
O ₃ (ppb) - 8-hr		65	Portable-Brooks		0							39.7	Feb-16
H ₂ S (ppb)	10	3	Portable-Brooks	0.60	10	1	30.6	Feb-25 04:00	2	NW	4.6	Feb-25	
WSPD v (km/hr)			Portable-Brooks	10.0	-	-	39.2	Feb-10 07:00	39.2	SSE	16.2	Feb-10	
WSPD s (km/hr)			Portable-Brooks	10.3	-	-	39.3	Feb-10 07:00	39.3	SSE	21.6	Feb-08	
WDIR			Portable-Brooks	SSW	-	-	-					-	-



PAS - Crescent Heights

Monthly Summary Tables, Graphs and Roses



PAS - Crescent Heights - AQI Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Air Quality Index (AQI)

Monitoring Dates: February 1, 2008 to March 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:	661
Number of 1-hr Fair Readings:	0
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

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



PAS - Crescent Heights Nitrogen Dioxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 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:	41.5 ppb	26-Feb	3:00 4:00
Maximum 24-hr Average:	26.1 ppb	22-Feb	

AIC Time:	31 hrs	Operational Time:	661 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	37.6	31.2	17.5	9.9	5.8	3.2	2.2		

Day Mountain Standard Time

	Hour Start 1:00	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	25:00	26:00	27:00	28:00	29:00	30:00	31:00	32:00	33:00	34:00	35:00	36:00	37:00	38:00	39:00	40:00	41:00	42:00	43:00	44:00	45:00	46:00	47:00	48:00	49:00	50:00	51:00	52:00	53:00	54:00	55:00	56:00	57:00	58:00	59:00	60:00	61:00	62:00	63:00	64:00	65:00	66:00	67:00	68:00	69:00	70:00	71:00	72:00	73:00	74:00	75:00	76:00	77:00	78:00	79:00	80:00	81:00	82:00	83:00	84:00	85:00	86:00	87:00	88:00	89:00	90:00	91:00	92:00	93:00	94:00	95:00	96:00	97:00	98:00	99:00	100:00	101:00	102:00	103:00	104:00	105:00	106:00	107:00	108:00	109:00	110:00	111:00	112:00	113:00	114:00	115:00	116:00	117:00	118:00	119:00	120:00	121:00	122:00	123:00	124:00	125:00	126:00	127:00	128:00	129:00	130:00	131:00	132:00	133:00	134:00	135:00	136:00	137:00	138:00	139:00	140:00	141:00	142:00	143:00	144:00	145:00	146:00	147:00	148:00	149:00	150:00	151:00	152:00	153:00	154:00	155:00	156:00	157:00	158:00	159:00	160:00	161:00	162:00	163:00	164:00	165:00	166:00	167:00	168:00	169:00	170:00	171:00	172:00	173:00	174:00	175:00	176:00	177:00	178:00	179:00	180:00	181:00	182:00	183:00	184:00	185:00	186:00	187:00	188:00	189:00	190:00	191:00	192:00	193:00	194:00	195:00	196:00	197:00	198:00	199:00	200:00	201:00	202:00	203:00	204:00	205:00	206:00	207:00	208:00	209:00	210:00	211:00	212:00	213:00	214:00	215:00	216:00	217:00	218:00	219:00	220:00	221:00	222:00	223:00	224:00	225:00	226:00	227:00	228:00	229:00	230:00	231:00	232:00	233:00	234:00	235:00	236:00	237:00	238:00	239:00	240:00	241:00	242:00	243:00	244:00	245:00	246:00	247:00	248:00	249:00	250:00	251:00	252:00	253:00	254:00	255:00	256:00	257:00	258:00	259:00	260:00	261:00	262:00	263:00	264:00	265:00	266:00	267:00	268:00	269:00	270:00	271:00	272:00	273:00	274:00	275:00	276:00	277:00	278:00	279:00	280:00	281:00	282:00	283:00	284:00	285:00	286:00	287:00	288:00	289:00	290:00	291:00	292:00	293:00	294:00	295:00	296:00	297:00	298:00	299:00	300:00	301:00	302:00	303:00	304:00	305:00	306:00	307:00	308:00	309:00	310:00	311:00	312:00	313:00	314:00	315:00	316:00	317:00	318:00	319:00	320:00	321:00	322:00	323:00	324:00	325:00	326:00	327:00	328:00	329:00	330:00	331:00	332:00	333:00	334:00	335:00	336:00	337:00	338:00	339:00	340:00	341:00	342:00	343:00	344:00	345:00	346:00	347:00	348:00	349:00	350:00	351:00	352:00	353:00	354:00	355:00	356:00	357:00	358:00	359:00	360:00	361:00	362:00	363:00	364:00	365:00	366:00	367:00	368:00	369:00	370:00	371:00	372:00	373:00	374:00	375:00	376:00	377:00	378:00	379:00	380:00	381:00	382:00	383:00	384:00	385:00	386:00	387:00	388:00	389:00	390:00	391:00	392:00	393:00	394:00	395:00	396:00	397:00	398:00	399:00	400:00	401:00	402:00	403:00	404:00	405:00	406:00	407:00	408:00	409:00	410:00	411:00	412:00	413:00	414:00	415:00	416:00	417:00	418:00	419:00	420:00	421:00	422:00	423:00	424:00	425:00	426:00	427:00	428:00	429:00	430:00	431:00	432:00	433:00	434:00	435:00	436:00	437:00	438:00	439:00	440:00	441:00	442:00	443:00	444:00	445:00	446:00	447:00	448:00	449:00	450:00	451:00	452:00	453:00	454:00	455:00	456:00	457:00	458:00	459:00	460:00	461:00	462:00	463:00	464:00	465:00	466:00	467:00	468:00	469:00	470:00	471:00	472:00	473:00	474:00	475:00	476:00	477:00	478:00	479:00	480:00	481:00	482:00	483:00	484:00	485:00	486:00	487:00	488:00	489:00	490:00	491:00	492:00	493:00	494:00	495:00	496:00	497:00	498:00	499:00	500:00	501:00	502:00	503:00	504:00	505:00	506:00	507:00	508:00	509:00	510:00	511:00	512:00	513:00	514:00	515:00	516:00	517:00	518:00	519:00	520:00	521:00	522:00	523:00	524:00	525:00	526:00	527:00	528:00	529:00	530:00	531:00	532:00	533:00	534:00	535:00	536:00	537:00	538:00	539:00	540:00	541:00	542:00	543:00	544:00	545:00	546:00	547:00	548:00	549:00	550:00	551:00	552:00	553:00	554:00	555:00	556:00	557:00	558:00	559:00	560:00	561:00	562:00	563:00	564:00	565:00	566:00	567:00	568:00	569:00	570:00	571:00	572:00	573:00	574:00	575:00	576:00	577:00	578:00	579:00	580:00	581:00	582:00	583:00	584:00	585:00	586:00	587:00	588:00	589:00	590:00	591:00	592:00	593:00	594:00	595:00	596:00	597:00	598:00	599:00	600:00	601:00	602:00	603:00	604:00	605:00	606:00	607:00	608:00	609:00	610:00	611:00	612:00	613:00	614:00	615:00	616:00	617:00	618:00	619:00	620:00	621:00	622:00	623:00	624:00	625:00	626:00	627:00	628:00	629:00	630:00	631:00	632:00	633:00	634:00	635:00	636:00	637:00	638:00	639:00	640:00	641:00	642:00	643:00	644:00	645:00	646:00	647:00	648:00	649:00	650:00	651:00	652:00	653:00	654:00	655:00	656:00	657:00	658:00	659:00	660:00	661:00	662:00	663:00	664:00	665:00	666:00	667:00	668:00	669:00	670:00	671:00	672:00	673:00	674:00	675:00	676:00	677:00	678:00	679:00	680:00	681:00	682:00	683:00	684:00	685:00	686:00	687:00	688:00	689:00	690:00	691:00	692:00	693:00	694:00	695:00	696:00	697:00	698:00	699:00	700:00	701:00	702:00	703:00	704:00	705:00	706:00	707:00	708:00	709:00	710:00	711:00	712:00	713:00	714:00	715:00	716:00	717:00	718:00	719:00	720:00	721:00	722:00	723:00	724:00	725:00	726:00	727:00	728:00	72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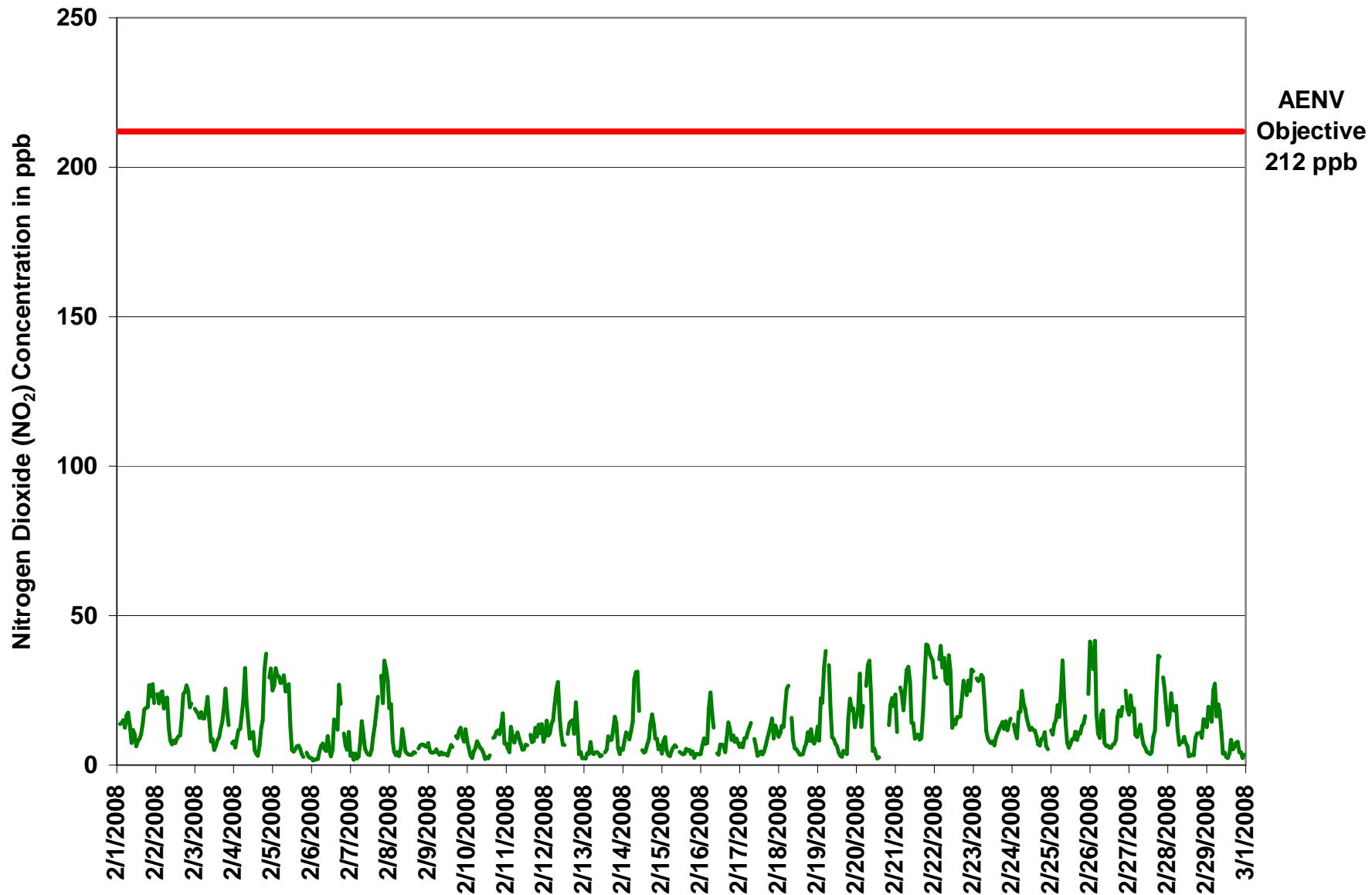


Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

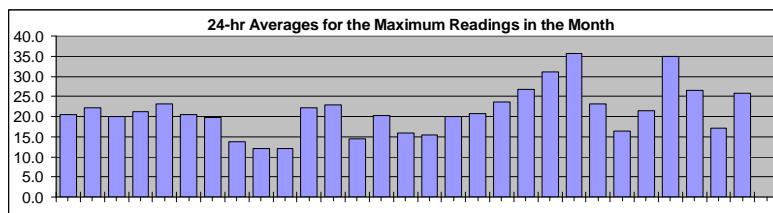
Maximum 1-hr Value:	103.7 ppb	26-Feb 0:00 1:00
Maximum 24-hr Value:	35.8 ppb	22-Feb

AIC Time:	31 hrs	Operational Time:	661 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median
	59.6 45.8 30.4 18.6 10.4 4.9 3.7	21.3 ppb	18.6 ppb

Day Mountain Standard Time

	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	24-hour Average	Daily Maximum
1-Feb-08	9 1:00	A 19	18	17	18	21	19	17	11	15	14	7	11	10	12	24	22	24	25	40	26	66	24	20.5	66.4		
2-Feb-08	A 2:00	28 24	25	29	27	26	26	15	11	10	11	8	12	25	18	21	41	26	28	28	24	22	A	22.1	40.8		
3-Feb-08	23 2:00	21 22	21	21	21	20	25	26	24	11	23	8	8	11	11	13	18	28	30	26	40	A	11	20.0	39.7		
4-Feb-08	12 2:00	9 14	15	14	19	25	37	33	26	12	14	36	7	6	5	9	16	20	43	41	A	36	37	21.1	43.4		
5-Feb-08	33 2:00	30 44	35	31	31	33	31	30	30	28	48	24	7	22	17	7	5	4	A	5	4	4	23.2	48.3			
6-Feb-08	20 2:00	2 2	20	3	33	25	18	8	9	20	9	4	10	34	31	17	44	37	A	18	46	9	50	20.5	49.9		
7-Feb-08	7 2:00	6 22	7	4	4	14	37	14	22	15	10	4	6	27	16	28	A	39	29	43	38	32	19.7	43.3			
8-Feb-08	43 2:00	29 34	30	25	16	5	14	15	11	9	5	5	5	6	6	9	A	8	8	9	8	9	8	13.8	43.5		
9-Feb-08	9 2:00	7 6	6	6	7	7	5	6	5	7	5	4	7	9	11	A	59	18	16	16	24	11	30	12.2	58.9		
10-Feb-08	13 2:00	7 6	4	6	9	13	11	8	7	7	5	5	3	6	A	11	12	30	19	13	41	32	10	12.1	40.7		
11-Feb-08	14 2:00	7 8	18	43	13	14	33	27	34	16	15	17	9	A	55	11	12	38	35	44	14	19	13	22.1	55.1		
12-Feb-08	21 2:00	25 40	37	26	23	25	36	39	27	17	18	10	A	15	18	19	26	14	36	22	5	28	3	23.0	39.7		
13-Feb-08	9 2:00	6 31	29	9	8	10	9	6	5	4	5	A	10	20	18	47	23	16	21	19	12	5	9	14.4	46.9		
14-Feb-08	9 2:00	13 15	15	13	15	24	39	36	36	33	A	22	6	7	43	12	17	19	33	13	11	9	28	20.3	43.2		
15-Feb-08	6 2:00	27 43	8	41	5	7	7	9	48	A	24	13	5	5	7	16	7	5	33	8	16	20	6	15.8	48.5		
16-Feb-08	12 2:00	13 14	12	11	28	31	21	17	A	6	6	23	29	9	7	19	19	16	12	14	11	14	14	15.5	30.7		
17-Feb-08	10 2:00	12 8	15	11	12	26	21	A	10	9	4	12	23	37	7	33	12	14	37	50	40	38	15	19.9	50.1		
18-Feb-08	11 2:00	15 20	16	23	37	33	A	27	13	24	27	6	5	4	4	7	10	14	12	47	36	49	35	20.7	49.4		
19-Feb-08	52 2:00	10 30	37	75	48	A	37	34	11	11	8	7	6	4	5	8	6	7	39	37	29	29	16	23.6	75.3		
20-Feb-08	21 2:00	23 36	27	30	A	51	49	38	32	7	8	39	3	4	C	C	C	C	A	19	33	31	29	26.8	50.8		
21-Feb-08	35 2:00	19 A	34	28	28	30	38	37	35	23	31	37	14	12	13	13	24	44	46	46	44	45	42	31.2	46.1		
22-Feb-08	42 2:00	50 A	38	50	37	66	30	35	53	42	32	25	19	20	18	20	28	40	32	33	36	30	43	35.8	66.2		
23-Feb-08	40 A	31	30	31	32	43	56	19	14	13	17	10	11	12	15	14	21	17	21	31	24	17	23.2	56.4			
24-Feb-08	A 2:00	35 21	11	21	22	27	27	21	19	18	13	13	13	13	11	9	8	11	10	18	17	7	A	16.4	35.5		
25-Feb-08	14 2:00	17 18	18	29	18	34	48	35	25	12	8	8	18	11	21	10	14	27	29	24	20	A	33	21.4	47.7		
26-Feb-08	104 2:00	54 40	79	45	27	14	46	40	18	8	8	14	17	31	17	10	22	36	28	50	A	61	31	34.9	103.7		
27-Feb-08	38 2:00	51 24	28	21	21	24	34	17	9	9	6	15	6	7	37	14	37	40	46	A	61	39	24	26.5	60.8		
28-Feb-08	18 2:00	25 36	24	22	24	19	12	11	12	12	13	11	5	7	7	4	23	12	A	19	35	21	20	17.0	35.7		
29-Feb-08	34 2:00	40 32	37	43	53	21	41	27	23	6	37	5	11	24	33	14	25	24	27	7	19	6	28	25.8	53.4		

Hourly Avg	24.5	21.5	23.7	23.9	25.1	22.6	24.5	29.0	23.1	20.8	14.5	14.4	14.9	10.8	13.7	17.4	16.0	21.2	22.0	27.1	26.3	26.9	26.1	22.7
Hourly Max	103.7	54.1	44.3	79.3	75.3	53.4	66.2	56.4	39.8	53.3	42.1	36.8	48.3	28.9	37.0	55.1	46.9	58.9	43.7	46.4	50.4	60.8	66.4	49.9



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

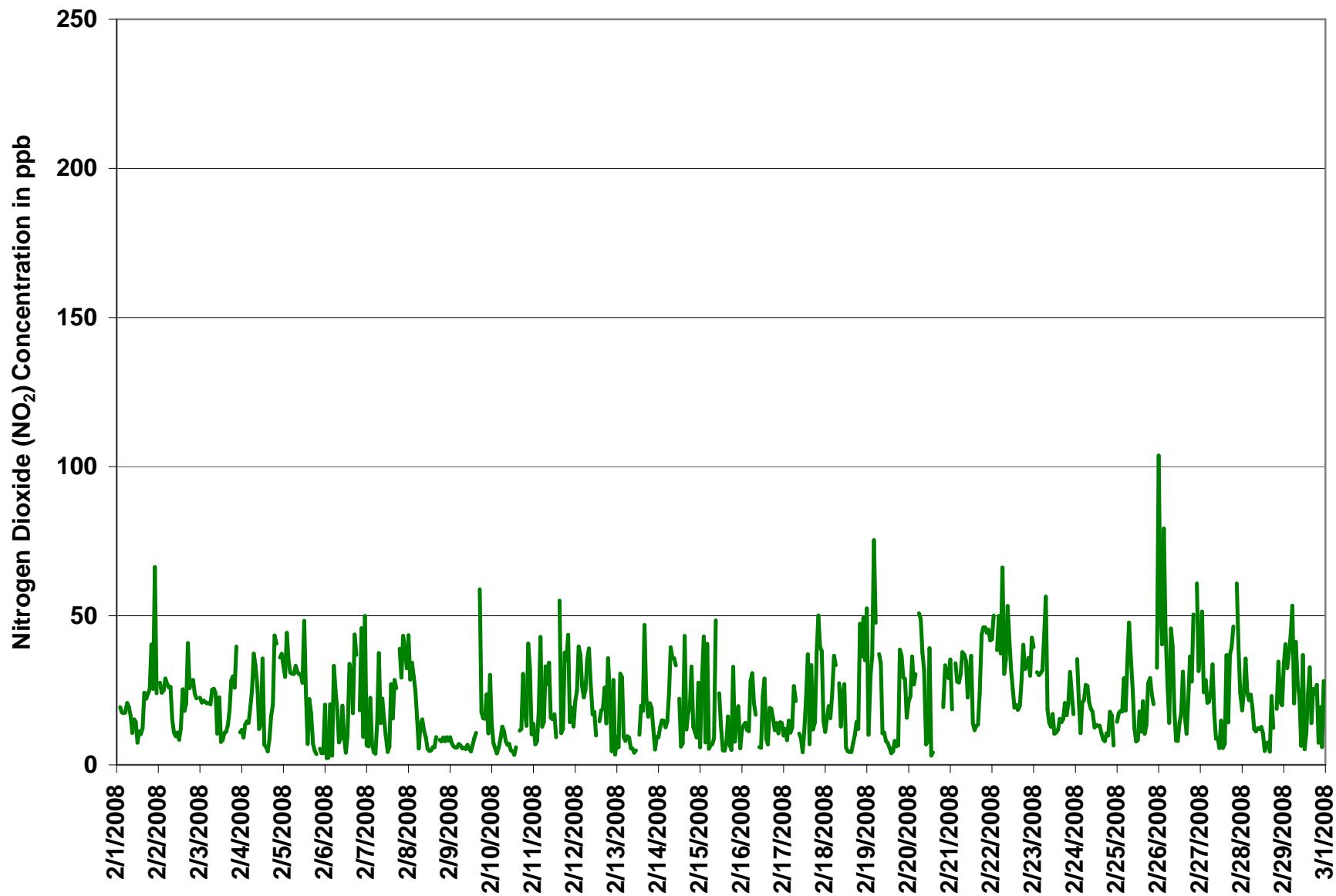
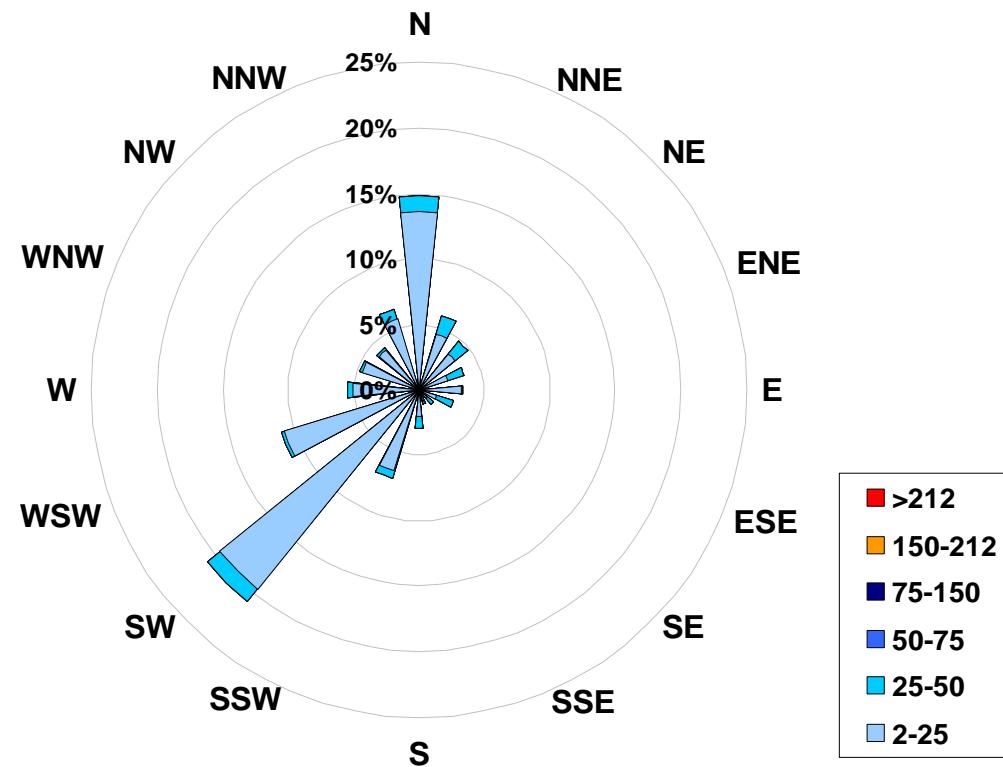


Figure 2. PAS - Crescent Heights Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at
the Crescent Heights Site for February 2008





PAS - Crescent Heights Nitric Oxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

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

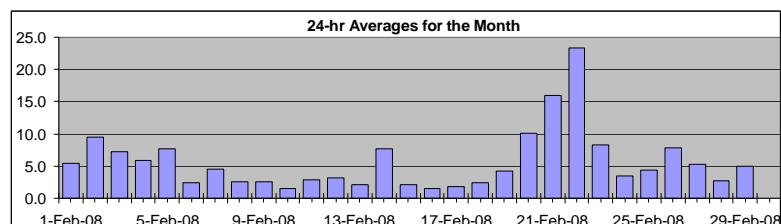
Maximum 1-hr Average:	94.7	ppb	22-Feb	9:00 10:00
Maximum 24-hr Average:	23.3	ppb	22-Feb	

AIC Time:	31 hrs	Operational Time:	661 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median
	51.5 19.8 5.6 2.6 1.3 0.5 0.2	5.6 ppb	2.6 ppb

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start 1:00	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-Feb-08	1	A	1	1	1	1	2	1	4	4	4	10	10	6	8	8	7	7	4	7	5	13	7	14	2	5.4	14.4
2-Feb-08	A	5	4	8	12	8	9	8	5	7	9	12	15	16	17	10	10	9	7	18	12	2	3	A	9.5	17.5	
3-Feb-08	2	3	3	2	5	3	3	8	24	24	11	17	8	9	10	9	5	3	4	5	2	7	A	0	7.2	24.0	
4-Feb-08	1	1	2	2	1	2	2	12	10	12	9	14	16	5	3	1	1	1	0	13	14	A	5	8	5.9	16.4	
5-Feb-08	4	2	16	6	4	2	4	15	16	33	46	13	3	3	2	2	1	1	0	0	A	0	0	0	7.6	45.6	
6-Feb-08	1	0	0	1	0	2	2	1	1	1	3	2	1	1	8	6	3	7	2	A	1	2	0	9	2.4	8.9	
7-Feb-08	0	0	1	0	1	0	1	5	3	4	4	3	3	3	5	6	5	3	A	6	3	22	19	10	4.6	21.5	
8-Feb-08	4	2	3	3	1	1	1	1	4	5	4	3	2	3	4	4	2	A	2	2	3	2	2	2	2.6	5.1	
9-Feb-08	3	3	2	2	3	3	2	2	3	3	4	3	3	4	6	4	A	3	1	1	1	2	1	1	2.6	5.6	
10-Feb-08	0	0	0	0	0	1	1	1	1	2	3	2	2	2	2	A	2	2	2	3	3	3	2	1	1.6	3.4	
11-Feb-08	1	0	0	1	1	1	1	4	6	8	6	6	7	5	A	4	1	1	4	2	6	1	1	1	2.9	8.1	
12-Feb-08	1	0	3	2	1	1	1	3	13	6	7	6	6	A	4	5	3	2	1	4	1	1	1	1	3.2	13.2	
13-Feb-08	2	1	4	2	1	1	1	2	3	2	2	4	A	2	3	4	3	2	2	2	2	2	1	1	2.1	4.1	
14-Feb-08	1	1	1	1	1	2	4	14	32	63	28	A	4	3	3	7	3	2	2	2	1	1	1	1	7.6	62.7	
15-Feb-08	1	3	5	1	2	1	1	1	2	6	A	3	3	2	2	2	2	1	1	2	1	2	2	1	2.1	5.9	
16-Feb-08	1	1	1	1	1	1	2	3	1	1	A	2	2	3	3	2	2	2	2	1	1	1	1	1	1.5	3.5	
17-Feb-08	1	1	1	1	1	0	1	1	1	A	3	3	2	3	5	3	2	3	1	1	2	3	2	2	1.8	5.0	
18-Feb-08	0	1	1	0	1	3	2	A	7	5	5	4	4	3	2	2	2	1	1	1	4	2	1	2	2.4	6.8	
19-Feb-08	9	1	2	2	9	16	A	13	9	5	5	4	3	2	1	1	1	0	4	3	2	2	1	1	4.2	16.3	
20-Feb-08	1	1	4	1	2	A	36	32	49	28	4	5	4	2	2	C	C	C	C	A	2	5	3	2	10.1	49.1	
21-Feb-08	3	0	A	2	1	1	6	20	58	46	13	13	7	7	6	3	2	2	5	27	46	37	33	15.9	58.3		
22-Feb-08	10	11	A	6	56	22	62	47	63	95	54	10	13	14	16	11	8	6	5	3	4	8	3	7	23.3	94.7	
23-Feb-08	17	A	21	20	23	16	11	6	8	11	13	10	7	4	4	4	3	2	2	1	1	2	1	1	8.3	22.8	
24-Feb-08	A	2	1	0	2	2	2	4	9	11	12	11	10	5	3	1	1	1	1	1	0	0	0	A	3.5	11.5	
25-Feb-08	0	1	2	2	5	1	3	17	12	8	5	5	7	7	6	6	3	2	1	2	1	1	1	A	4.3	16.7	
26-Feb-08	50	8	3	35	4	3	1	8	12	6	5	6	4	4	5	4	3	2	2	1	4	A	7	1	7.8	49.9	
27-Feb-08	3	5	0	1	1	1	2	4	2	2	2	4	5	4	2	2	2	2	3	6	9	25	A	5.2	25.4		
28-Feb-08	1	1	10	2	3	4	2	2	2	4	5	4	2	2	2	2	2	2	1	2	3	2	1	2.8	9.8		
29-Feb-08	4	4	2	4	11	33	1	8	8	8	3	4	2	2	3	5	2	2	2	2	1	2	1	3	4.9	33.5	

HOURLY AVERAGE TABLE

Nitric Oxide (NO)



Status Flag Characters

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



PAS - Crescent Heights Oxides of Nitrogen Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

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

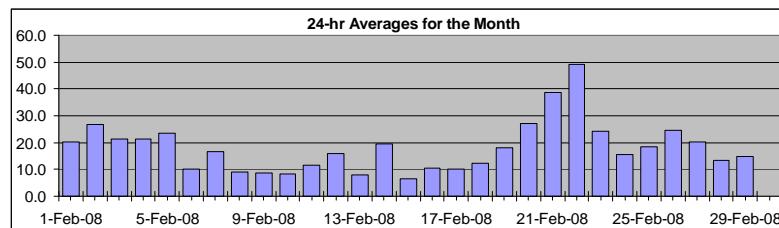
Maximum 1-hr Average:	131.1	ppb	22-Feb	9:00 10:00
Maximum 24-hr Average:	49.1	ppb	22-Feb	

AIC Time:	31 hrs	Operational Time:	661 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median
	87.3 50.1 22.2 13.2 7.7 4.2 2.6	18.0 ppb	13.2 ppb

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start 1:00	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-Feb-08	8	A	15	15	16	13	18	18	17	11	22	20	12	15	17	17	21	22	26	25	40	30	41	23	20.1	41.3
2-Feb-08	A	29	24	32	37	27	32	31	18	15	16	20	22	25	26	20	26	33	31	44	37	21	23	A	26.8	44.2
3-Feb-08	20	21	20	18	23	18	19	27	47	39	18	25	12	16	18	18	17	17	23	30	20	21	A	7	21.5	46.7
4-Feb-08	9	7	11	13	13	18	24	44	31	26	17	24	27	10	6	4	8	13	15	44	52	A	34	40	21.4	51.5
5-Feb-08	29	28	48	36	33	30	32	45	41	58	73	25	8	7	7	8	7	6	4	3	A	4	3	2	23.4	72.8
6-Feb-08	3	1	1	3	2	6	8	8	7	6	12	7	4	6	23	19	14	34	22	A	11	8	5	20	10.1	34.1
7-Feb-08	3	4	2	4	2	3	8	19	13	9	8	7	6	8	14	19	22	26	A	36	24	57	51	38	16.6	56.5
8-Feb-08	23	22	10	7	4	5	4	7	16	13	8	7	6	6	6	7	8	6	A	7	8	9	9	8	9.0	23.3
9-Feb-08	10	7	6	6	7	8	6	5	6	6	7	6	6	9	12	10	A	13	10	12	14	12	9	13	8.6	13.7
10-Feb-08	8	6	3	2	5	6	9	8	7	7	7	4	5	4	6	A	11	11	13	14	13	17	20	8	8.4	19.6
11-Feb-08	8	6	5	14	11	8	10	15	14	15	11	11	14	11	A	14	9	9	16	11	19	11	14	8	11.5	19.0
12-Feb-08	10	15	13	12	15	16	22	28	41	22	17	12	12	A	14	19	18	16	11	25	14	4	5	3	15.9	40.8
13-Feb-08	4	3	7	6	8	5	5	6	7	6	5	6	A	6	8	14	11	11	13	18	16	8	5	6	7.9	18.4
14-Feb-08	6	8	11	11	9	13	18	42	63	94	46	A	9	7	7	14	12	16	18	15	10	9	6	9	19.7	94.1
15-Feb-08	4	11	14	5	5	3	5	7	8	12	A	7	6	6	6	7	7	6	5	7	3	5	5	4	6.5	14.3
16-Feb-08	4	7	9	8	8	20	27	18	14	A	6	5	9	10	9	6	11	16	13	9	11	8	9	8	10.6	27.0
17-Feb-08	6	7	6	9	9	12	14	15	A	11	9	5	7	9	6	6	9	10	12	15	18	11	15	12	10.2	18.4
18-Feb-08	10	12	14	13	20	28	28	A	22	13	11	9	8	6	6	5	7	8	12	9	16	9	8	10	12.4	28.4
19-Feb-08	22	9	24	22	41	54	A	46	27	14	14	11	9	5	4	3	5	5	4	19	25	20	21	14	18.2	54.3
20-Feb-08	16	20	35	13	21	A	62	65	84	51	8	11	7	3	4	C	C	C	C	A	15	25	26	22	27.2	83.9
21-Feb-08	27	11	A	27	24	19	30	51	90	73	27	27	16	16	16	12	11	19	33	67	85	74	69	62	38.5	90.5
22-Feb-08	39	40	A	41	96	55	97	75	90	131	85	23	28	28	31	27	24	28	33	29	27	36	28	38	49.1	131.1
23-Feb-08	48	A	50	47	51	46	40	27	19	19	21	17	15	11	13	15	15	15	15	16	13	15	13	15	24.2	51.1
24-Feb-08	A	15	11	9	19	19	27	24	27	27	25	22	22	16	15	10	7	7	9	9	11	7	5	A	15.7	27.3
25-Feb-08	12	11	16	17	25	17	27	51	35	21	12	11	14	15	15	17	11	12	12	14	15	17	A	18.3	51.3	
26-Feb-08	91	46	34	76	21	13	10	25	30	13	12	12	10	9	11	11	11	18	20	17	24	A	32	20	24.5	90.9
27-Feb-08	20	28	18	19	11	10	13	17	11	9	9	6	6	5	6	13	14	30	45	61	A	46	45	21	20.2	61.3
28-Feb-08	15	17	34	21	21	24	14	9	10	9	13	12	10	4	5	5	5	12	12	A	13	11	17	16	13.4	33.6
29-Feb-08	17	23	18	18	36	60	17	28	25	18	6	8	4	4	7	13	7	8	9	10	5	6	3	6	14.8	60.2

HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)



Status Flag Characters

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

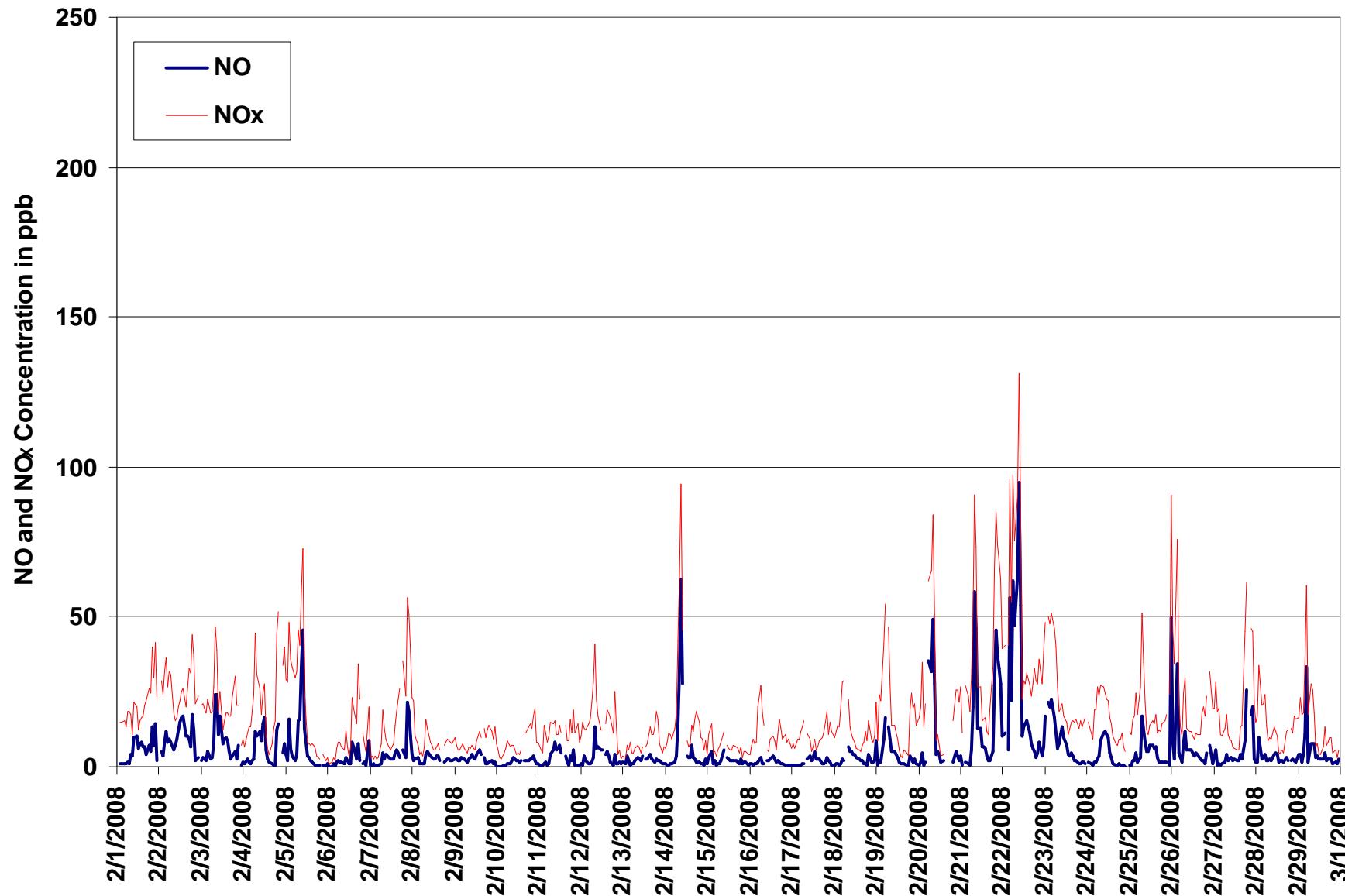


Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

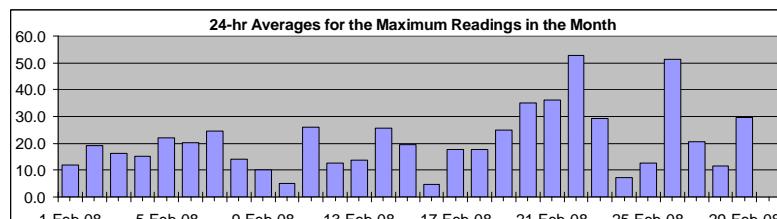
Maximum 1-hr Value:	283.6 ppb	26-Feb 0:00 1:00
Maximum 24-hr Value:	52.7 ppb	22-Feb

AIC Time:	31 hrs	Operational Time:	661 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median
	142.0 77.4 28.0 7.7 3.2 1.3 0.8	20.9 ppb	7.7 ppb

Day Mountain Standard Time

	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	24:00 Average	Daily Maximum
1-Feb-08	2 1:00	A	2	2	2	3	4	5	7	8	15	14	8	13	11	9	18	6	18	13	37	29	50	4	12.1	50.1	
2-Feb-08	A 2:00	11	9	15	27	16	19	13	7	11	13	26	16	28	60	32	14	26	9	29	28	7	5	A 1:00	19.2	59.8	
3-Feb-08	4 3:00	7	7	5	8	5	5	27	30	61	18	62	13	12	13	11	7	4	7	8	6	54	A 1:00	1	16.3	62.0	
4-Feb-08	4 4:00	2	4	5	4	4	6	32	52	25	13	22	71	7	5	3	2	2	2	41	24	A 1:00	10	13	15.3	70.9	
5-Feb-08	13 5:00	5	48	24	8	3	10	35	24	66	53	39	67	72	3	21	7	1	1	1	A 1:00	1	1	21.9	71.7		
6-Feb-08	43 6:00	1	0	32	1	30	14	4	2	3	7	6	2	3	44	31	4	42	9	A 1:00	3	55	26	108	20.4	108.0	
7-Feb-08	1 7:00	1	47	1	1	1	13	151	6	56	34	11	4	3	21	12	20	6	A 1:00	14	11	77	47	26	24.5	150.8	
8-Feb-08	70 8:00	5	51	61	19	25	2	3	6	8	10	6	4	5	10	9	5	A 1:00	3	3	5	4	6	4	14.0	69.9	
9-Feb-08	4 9:00	5	4	3	5	5	4	3	4	5	9	5	4	6	9	8	A 1:00	82	15	3	4	27	3	17	10.2	81.8	
10-Feb-08	1 10:00	1	1	1	1	2	3	3	2	3	5	6	4	3	5	A 1:00	4	4	10	5	5	37	7	2	5.0	37.1	
11-Feb-08	4 11:00	1	1	1	4	48	1	3	59	50	89	33	29	24	10	A 1:00	66	3	2	34	31	99	2	2	25.9	99.2	
12-Feb-08	2 12:00	2	45	35	2	3	3	9	38	12	10	25	14	A 1:00	6	8	7	4	1	32	2	2	28	2	12.6	45.0	
13-Feb-08	46 1:00	10	54	28	1	2	7	8	5	4	3	6	A 1:00	8	13	20	37	25	4	5	4	17	3	2	13.6	54.5	
14-Feb-08	2 2:00	1	1	3	2	4	39	66	46	81	75	A 1:00	38	4	5	128	5	4	3	32	2	2	2	44	25.6	128.2	
15-Feb-08	1 3:00	31	70	2	74	2	2	2	3	97	A 1:00	22	15	3	3	3	19	2	2	33	6	14	40	2	19.5	97.2	
16-Feb-08	2 4:00	2	1	1	2	4	6	3	2	A 1:00	4	6	13	41	3	3	4	4	2	2	1	1	1	1	4.7	41.1	
17-Feb-08	1 5:00	1	2	1	1	1	9	3	A 1:00	5	5	3	17	60	20	4	46	2	18	24	67	81	33	1	17.6	80.8	
18-Feb-08	1 6:00	3	2	1	2	9	6	A 1:00	73	8	41	25	5	4	3	3	3	2	2	2	71	39	37	61	17.6	73.1	
19-Feb-08	178 7:00	3	24	20	102	39	A 1:00	39	30	7	7	5	4	3	1	2	2	2	2	66	26	5	7	3	25.1	178.1	
20-Feb-08	2 8:00	9	10	2	4	A 1:00	197	109	60	45	7	8	96	3	3	C 1:00	C 1:00	C 1:00	C 1:00	A 1:00	5	31	35	6	35.0	196.8	
21-Feb-08	10 9:00	2	A 1:00	4	2	6	11	40	71	71	34	39	35	10	8	7	4	3	20	71	77	78	75	156	36.3	156.1	
22-Feb-08	59 10:00	73	A 1:00	11	131	44	136	54	109	205	102	54	31	19	21	18	10	14	17	8	17	30	8	42	52.7	205.1	
23-Feb-08	45 11:00	A 1:00	35	32	37	37	100	125	46	23	28	34	13	6	6	19	5	4	4	2	3	49	22	3	29.4	125.4	
24-Feb-08	1 12:00	A 1:00	36	14	1	5	3	4	6	11	14	17	14	12	8	4	2	2	1	2	1	1	1	A 1:00	7.2	36.0	
25-Feb-08	1 1:00	3	4	8	17	7	11	41	33	25	8	8	8	21	7	19	5	2	21	25	13	4	A 1:00	12.8	40.9		
26-Feb-08	284 2:00	45	10	130	56	19	3	87	84	19	8	7	14	15	59	38	4	4	30	2	95	A 1:00	166	6	51.4	283.6	
27-Feb-08	43 3:00	27	2	3	12	10	13	24	3	4	5	3	16	3	4	45	11	37	17	48	A 1:00	82	57	6	20.7	81.8	
28-Feb-08	5 4:00	14	85	7	8	8	4	5	5	3	6	8	3	11	4	2	12	3	A 1:00	5	45	7	3	11.5	85.3		
29-Feb-08	50 5:00	36	8	29	95	112	3	56	14	17	5	32	5	22	33	34	16	20	40	20	2	22	2	45	29.8	111.8	

Hourly Avg	32.5	12.4	20.1	16.2	23.4	14.6	22.7	36.2	29.4	34.8	20.5	18.7	20.0	14.1	14.0	20.5	9.8	11.7	11.0	20.0	23.0	29.4	25.2	20.8
Hourly Max	283.6	73.4	85.3	129.7	131.4	111.8	196.8	150.8	108.9	205.1	101.8	62.0	95.6	71.7	59.8	128.2	45.9	81.8	39.9	70.6	99.2	81.8	166.3	156.1



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



Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Summary

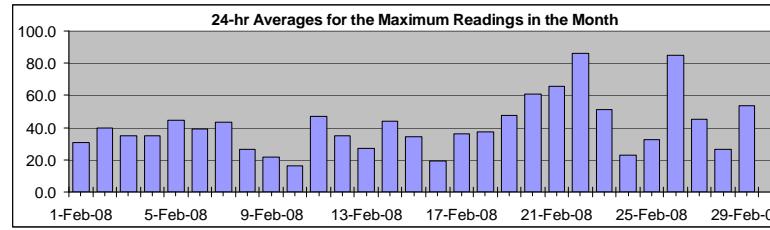
Maximum 1-hr Value:	385.0 ppb	26-Feb 0:00 1:00
Maximum 24-hr Value:	86.0 ppb	22-Feb

AIC Time:	31 hrs	Operational Time:	661 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median
	196.1 121.4 55.6 26.1 13.9 6.8 4.3	40.9 ppb	26.1 ppb

Day Mountain Standard Time

	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	24:00	Daily Average	Daily Maximum
1-Feb-08	10 1:00	A	21	19	18	20	23	22	22	19	29	27	14	22	20	20	39	28	38	35	69	52	108	27	30.5	107.5		
2-Feb-08	11 2:00	A	38	33	40	51	43	44	39	21	21	22	35	23	40	77	50	31	64	34	57	56	31	27	A	39.8	76.8	
3-Feb-08	12 3:00	25	26	28	25	26	25	25	52	53	85	29	80	20	20	23	20	20	20	35	37	31	92	A	35.1	91.8		
4-Feb-08	13 4:00	14	11	18	20	18	22	28	69	84	51	23	35	101	14	10	6	9	18	21	80	64	A	45	49	35.2	100.8	
5-Feb-08	14 5:00	45	31	92	58	38	34	40	68	55	97	83	68	116	96	9	43	24	8	5	4	A	6	4	4	44.7	116.0	
6-Feb-08	15 6:00	62	2	2	51	3	59	38	22	9	11	26	13	5	12	78	61	19	79	45	A	21	98	36	142	38.9	141.8	
7-Feb-08	16 7:00	7	6	70	7	5	4	26	186	20	78	50	19	7	9	47	28	45	30	A	53	40	122	85	43.5	186.4		
8-Feb-08	17 8:00	114	32	83	85	42	41	7	14	20	17	19	10	7	8	16	15	14	A	10	10	13	12	15	10	26.7	114.3	
9-Feb-08	18 9:00	12	12	9	8	10	11	10	8	9	10	15	10	8	12	17	16	A	141	32	18	20	50	12	47	21.7	141.0	
10-Feb-08	19 10:00	13	7	6	4	6	10	15	14	10	9	12	11	8	6	9	A	14	16	39	23	17	75	38	12	16.4	75.3	
11-Feb-08	20 11:00	17	7	9	22	86	13	16	89	75	122	45	44	41	19	A	121	13	12	71	62	144	16	20	46.9	143.8		
12-Feb-08	21 12:00	23	25	83	69	27	25	27	44	74	38	27	43	22	A	20	26	25	29	14	66	24	6	56	4	34.6	83.3	
13-Feb-08	22 13:00	55	15	77	55	10	9	15	17	10	9	7	11	A	18	33	38	84	48	18	24	21	28	6	11	27.0	84.5	
14-Feb-08	23 14:00	11	13	15	16	14	18	56	84	81	117	109	A	60	10	12	171	15	20	22	65	14	12	9	71	44.1	171.1	
15-Feb-08	24 15:00	7	55	105	8	117	7	8	8	11	146	A	42	28	8	7	10	33	8	6	61	12	30	59	7	34.1	146.2	
16-Feb-08	25 16:00	13	15	15	12	13	30	35	23	18	A	8	11	35	65	11	9	23	22	16	13	15	11	15	14	19.3	64.9	
17-Feb-08	26 17:00	10	12	9	16	11	13	36	23	A	14	13	7	28	76	57	10	76	14	24	62	118	121	65	15	36.1	120.9	
18-Feb-08	27 18:00	12	19	22	16	24	45	39	A	98	20	61	52	10	8	7	6	9	12	16	13	111	70	86	96	37.1	111.4	
19-Feb-08	28 19:00	224	12	50	56	179	86	A	76	64	17	17	13	11	8	4	5	10	7	6	105	63	33	35	47.8	224.1		
20-Feb-08	29 20:00	23	30	46	29	34	A	240	159	95	77	13	15	135	5	7	C	C	C	C	A	24	64	66	31	60.7	239.8	
21-Feb-08	30 21:00	42	21	A	37	29	34	40	75	104	105	56	69	71	24	19	19	17	26	62	116	121	122	114	65.8	192.9		
22-Feb-08	31 22:00	95	123	A	49	173	77	201	84	139	256	143	85	56	38	41	36	27	42	51	37	50	64	37	75	86.0	256.2	
23-Feb-08	32 23:00	80	A	64	62	67	68	141	180	64	33	39	47	23	16	17	31	19	18	24	18	21	74	46	19	50.9	179.6	
24-Feb-08	33 00:00	A	71	34	11	25	23	30	30	32	32	34	26	24	20	17	13	10	8	12	10	18	17	7	A	22.8	71.1	
25-Feb-08	34 01:00	15	18	21	23	42	23	44	88	65	47	20	15	16	39	18	40	14	15	43	48	37	24	A	32.4	87.7		
26-Feb-08	35 02:00	385	99	50	208	98	44	15	132	123	36	15	14	27	31	90	52	13	24	58	29	145	A	226	35	84.7	385.0	
27-Feb-08	36 03:00	72	78	24	30	33	31	37	57	20	13	13	8	30	8	8	81	24	72	54	86	A	141	95	26	45.3	141.1	
28-Feb-08	37 04:00	23	39	114	27	27	31	21	14	14	15	18	20	18	6	18	11	6	34	15	A	23	73	28	21	26.8	113.7	
29-Feb-08	38 05:00	84	74	36	66	135	154	22	92	40	38	10	69	9	31	57	65	29	44	60	44	9	40	7	64	53.4	154.2	

Hourly Avg	55.3	33.0	42.0	38.9	46.9	35.7	45.7	63.1	51.0	54.8	34.2	32.0	34.2	23.9	26.7	37.1	24.5	31.7	30.9	45.2	48.3	54.9	49.9	40.9
Hourly Max	385.0	123.0	113.7	207.7	178.7	154.2	239.8	186.4	139.2	256.2	142.8	85.4	135.1	96.4	89.6	171.1	84.5	141.0	70.6	115.9	145.3	141.1	225.9	192.9



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

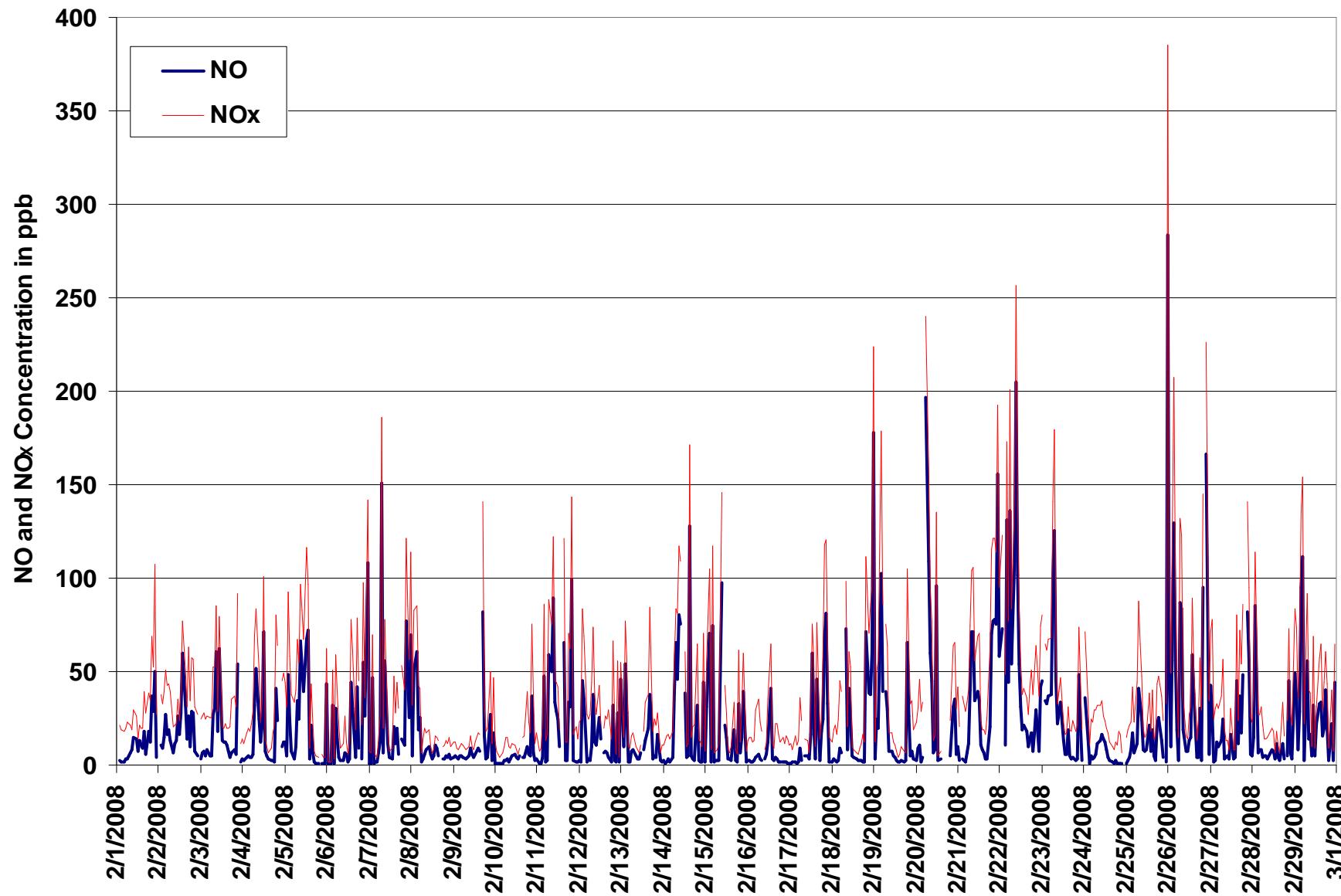


Figure 4. PAS - Crescent Heights Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend



PAS - Crescent Heights Ozone Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

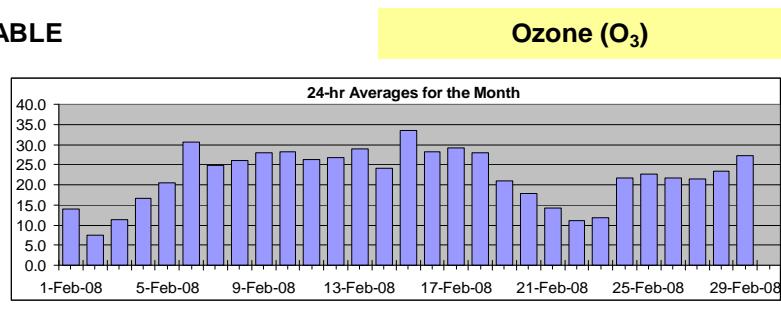
Objective Limit: Alberta Environment: 1-hr 82 ppb 24-hr na ppb
Summary

Number of 1-hr Exceedances: 0
Maximum 1-hr Average: 41.3 ppb 29-Feb 13:00 14:00
Maximum 24-hr Average: 33.4 ppb 15-Feb

AIC Time:	30 hrs	Operational Time:	663 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	38.8	36.4	31.3	25.0	14.6	1.3	0.0	22.3 ppb	25.0 ppb

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start 1:00	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-Feb-08	21	A	16	15	14	15	12	11	15	20	17	19	22	21	20	18	15	11	10	10	4	6	4	5	14.0	22.0	
2-Feb-08		A	1	3	0	0	6	3	3	11	16	17	16	16	16	16	15	10	3	1	0	1	5	4	A	7.4	17.1
3-Feb-08	6	7	8	9	6	7	8	5	3	9	16	16	21	19	17	16	14	13	8	3	10	16	A	24		11.3	24.0
4-Feb-08	23	25	22	20	19	15	10	1	11	17	22	21	21	25	27	28	25	20	18	5	0	A	5	2		16.7	28.4
5-Feb-08	8	4	0	2	1	2	2	0	7	11	13	30	37	37	36	36	34	34	35	35	A	35	35	36		20.4	37.4
6-Feb-08	36	36	37	36	36	33	32	30	32	32	29	36	36	34	25	29	28	14	A	27	31	32	28			30.7	36.6
7-Feb-08	35	34	36	34	36	36	31	25	28	32	33	34	35	33	29	26	21	14	A	6	11	0	0	2		24.8	36.4
8-Feb-08	9	13	29	33	34	34	35	32	24	17	22	26	26	26	26	26	27	A	28	27	26	26	26	26	26.0	35.1	
9-Feb-08	26	29	30	29	29	29	30	31	31	31	30	31	31	30	28	30	A	27	26	23	22	25	26	22		28.0	31.0
10-Feb-08	25	27	30	31	29	30	29	30	31	31	32	33	33	33	33	A	28	26	25	23	24	20	18	26		28.1	33.3
11-Feb-08	25	26	27	19	21	23	20	18	19	22	25	27	30	32	A	35	35	33	29	29	25	26	25	30		26.3	35.2
12-Feb-08	28	23	26	26	23	22	17	12	12	22	28	32	34	A	32	27	26	26	31	23	32	39	37	38		26.8	39.5
13-Feb-08	38	38	37	36	26	27	28	28	29	31	32	A	33	32	27	28	27	23	18	19	27	28	25		29.0	38.4	
14-Feb-08	26	22	19	20	22	19	16	3	4	6	20	A	36	37	36	34	32	26	22	26	32	32	34	32		24.2	36.7
15-Feb-08	34	31	30	33	35	36	34	32	31	31	A	35	36	37	37	35	34	32	33	33	34	32	32	31		33.4	37.0
16-Feb-08	31	27	23	26	26	14	11	18	23	A	38	39	36	35	36	38	32	27	27	30	28	30	28	31		28.3	38.6
17-Feb-08	30	29	29	26	26	24	22	22	A	28	30	34	35	36	36	34	30	29	29	26	31	25	23		29.2	36.4	
18-Feb-08	23	25	22	22	15	10	9	A	19	26	29	31	31	34	36	39	37	36	33	36	33	35	34	28		27.9	39.1
19-Feb-08	24	26	13	14	7	1	A	1	13	19	20	23	25	32	36	38	38	33	32	18	15	18	14	18		20.9	37.9
20-Feb-08	16	14	3	17	10	A	6	0	5	16	30	30	33	33	30	28	25	20	18	C	C	C	11	14		17.9	32.8
21-Feb-08	11	22	A	7	8	12	3	1	4	12	21	25	31	33	33	36	35	25	12	0	0	0	0		14.3	35.7	
22-Feb-08	6	6	A	1	0	0	0	0	3	6	15	29	28	22	21	23	23	17	12	14	11	6	8	2		11.0	29.5
23-Feb-08	0	A	0	0	0	1	5	10	14	14	15	15	16	19	18	13	14	16	17	21	19	21	13	8		11.7	20.9
24-Feb-08	A	11	14	15	8	6	1	5	8	11	14	18	21	30	33	37	39	39	35	33	30	34	34	A	21.6	39.5	
25-Feb-08	29	28	22	19	16	18	11	4	11	18	23	25	27	29	30	31	33	30	28	26	24	22	A	15		22.5	32.9
26-Feb-08	10	2	6	6	24	28	27	18	14	21	23	26	29	31	33	35	34	26	23	25	22	A	17	21		21.8	34.6
27-Feb-08	23	18	20	19	26	26	24	23	27	29	31	33	36	37	38	32	28	14	2	0	A	1	2	5		21.4	37.8
28-Feb-08	11	11	3	4	5	4	20	34	35	34	31	34	36	38	37	36	29	25	A	21	22	16	15		23.4	38.0	
29-Feb-08	18	13	18	19	8	8	17	15	18	27	35	37	39	41	39	35	34	32	30	32	36	34	32		27.2	41.3	

Hourly Avg	21.1	20.2	19.4	18.6	17.6	17.3	16.5	14.7	17.1	21.0	24.7	28.1	29.8	30.8	30.4	29.9	28.5	24.3	22.5	20.1	20.6	22.1	20.1	20.0
Hourly Max	38.3	38.4	36.9	35.8	36.4	35.6	35.1	33.6	35.3	34.1	37.6	38.6	39.2	41.3	39.2	39.1	39.5	39.1	35.1	35.6	36.2	39.5	37.0	38.3



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

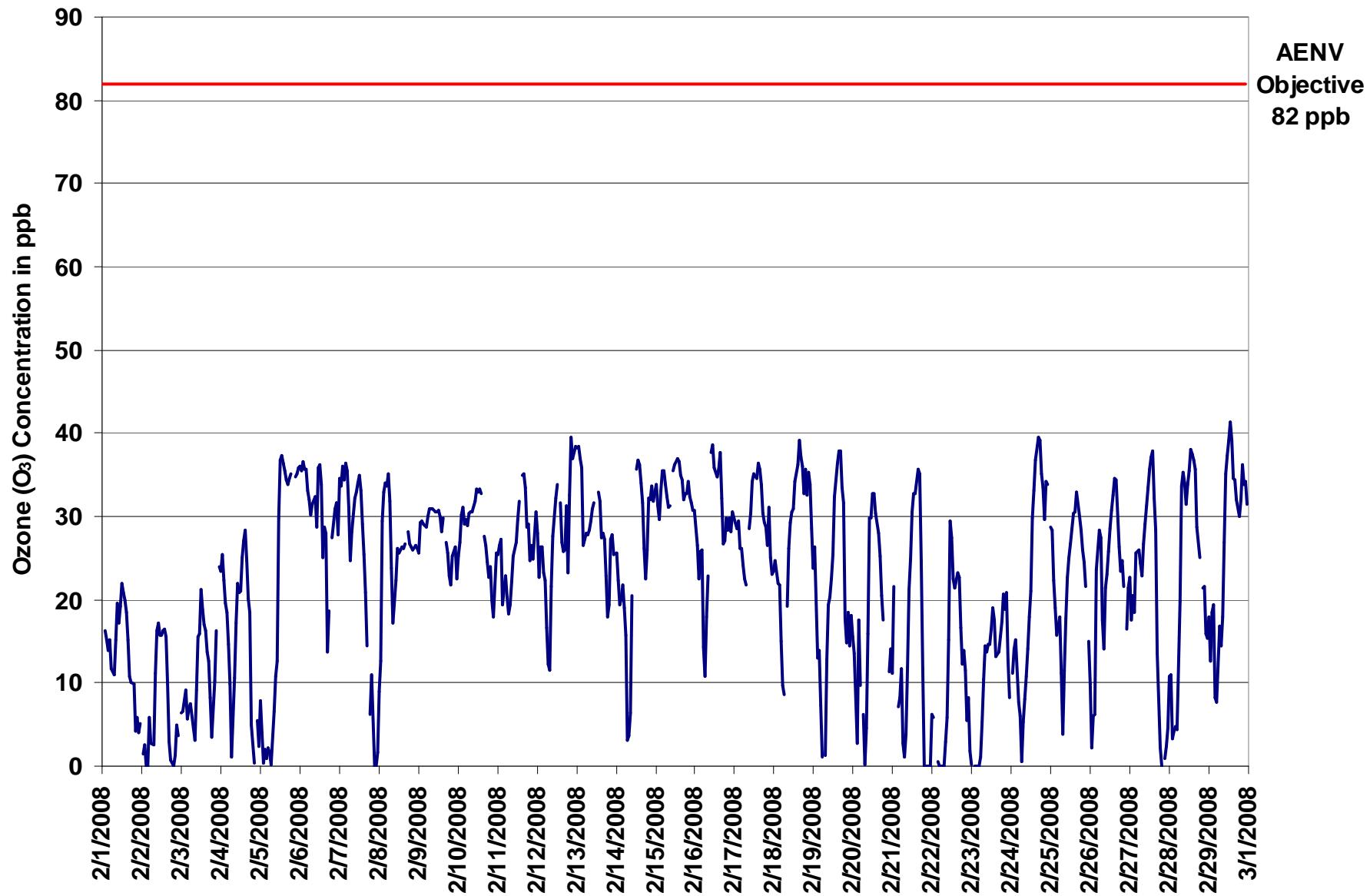


Figure 5. PAS - Crescent Heights Ozone 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	44.0 ppb	29-Feb 13:00 14:00
Maximum 24-hr Value:	35.5 ppb	15-Feb

AIC Time:	30 hrs	Operational Time:	663 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median
	40.8 38.9 34.2 28.9 19.7 5.6 0.0	26.1 ppb	28.9 ppb

Day Mountain Standard Time

	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	24-hour Average	Daily Maximum
1-Feb-08	22 1:00	A	18	18	17	17	16	14	20	21	21	21	22	23	22	21	20	17	14	14	17	9	10	8	9	17.0	22.6
2-Feb-08	5 2:00	A	5	8	0	2	10	4	10	15	19	19	19	17	18	19	18	14	7	2	1	6	8	6	A	10.3	19.5
3-Feb-08	9 3:00	8	12	13	8	10	10	8	5	16	17	21	24	23	18	19	15	21	23	8	20	19	A	26	15.3	26.1	
4-Feb-08	26 4:00	27	25	22	21	18	13	4	18	21	24	23	24	27	28	29	26	24	21	16	2	A	11	7	19.9	29.4	
5-Feb-08	14 5:00	13	4	5	7	8	3	1	12	13	18	36	39	39	38	38	36	36	36	36	A	35	36	37	23.4	38.7	
6-Feb-08	37 6:00	36	37	37	37	35	35	34	34	35	39	39	37	31	34	32	25	26	A	32	34	34	35	34.4	39.1		
7-Feb-08	36 7:00	36	37	37	38	37	36	31	31	35	35	35	36	35	34	27	25	20	A	11	15	2	2	9	27.8	37.5	
8-Feb-08	15 8:00	27	33	35	35	37	36	35	29	23	25	27	26	27	28	27	28	A	31	29	29	28	27	28	27	29.0	36.9
9-Feb-08	29 9:00	31	31	31	31	32	32	33	32	32	32	32	32	30	32	A	29	28	27	24	28	29	28	30.3	33.0		
10-Feb-08	30 10:00	30	30	32	32	30	32	33	33	32	34	35	34	34	34	A	31	29	28	29	27	28	25	31.0	34.8		
11-Feb-08	28 11:00	28	29	25	26	27	25	21	22	24	27	29	32	35	A	37	38	36	35	33	29	31	30	29.6	37.8		
12-Feb-08	32 12:00	31	30	32	29	30	22	23	18	25	32	34	36	A	35	30	31	31	36	32	41	41	39	39	31.7	41.3	
13-Feb-08	39 1:00	40	39	39	32	28	29	29	30	31	32	33	A	34	34	33	32	31	28	23	24	29	29	27	31.6	39.7	
14-Feb-08	28 2:00	25	25	23	25	23	20	13	7	9	33	A	37	38	39	38	35	29	26	29	36	34	35	36	28.0	38.6	
15-Feb-08	36 3:00	35	35	36	38	37	36	33	33	34	A	37	38	38	38	36	37	34	34	36	36	34	33	33	35.5	38.1	
16-Feb-08	33 4:00	31	26	31	30	22	19	23	30	A	40	41	40	38	38	39	38	31	31	33	31	32	32	32	32.2	40.8	
17-Feb-08	31 5:00	32	32	29	27	26	26	27	A	31	33	36	37	37	39	38	36	34	35	36	35	34	32	27	32.5	38.8	
18-Feb-08	25 6:00	28	25	24	19	16	17	A	23	30	31	32	32	36	38	41	40	38	36	39	39	40	37	32	31.2	40.6	
19-Feb-08	29 7:00	29	24	24	25	11	A	6	20	21	21	24	29	35	38	39	43	37	33	32	26	25	19	21	26.7	42.7	
20-Feb-08	21 8:00	20	8	23	20	A	19	2	9	32	33	31	35	34	31	30	29	24	22	C	C	C	19	21	23.1	34.7	
21-Feb-08	22 9:00	25	A	11	14	16	7	5	8	23	26	30	34	34	36	39	39	33	19	0	0	0	0	0	18.3	39.4	
22-Feb-08	18 10:00	21	A	6	0	0	9	1	6	7	27	31	31	26	26	27	26	21	18	21	15	16	16	9	16.4	30.9	
23-Feb-08	2 11:00	A	0	0	0	5	15	17	17	18	17	18	19	22	19	17	17	20	21	24	23	24	18	11	15.1	24.1	
24-Feb-08	14 12:00	14	16	17	14	9	3	7	10	13	17	20	25	35	35	40	41	41	38	35	34	38	38	A	24.4	40.7	
25-Feb-08	33 1:00	34	26	24	19	21	21	12	16	19	26	26	28	31	32	36	36	34	31	30	27	26	A	23	26.5	35.7	
26-Feb-08	25 2:00	9	11	26	35	34	32	24	21	24	24	28	30	32	35	37	36	33	31	33	27	A	26	31	28.1	37.3	
27-Feb-08	32 3:00	32	26	28	32	30	32	32	31	32	34	35	38	39	38	39	38	33	31	12	1	A	5	8	8	27.3	39.2
28-Feb-08	14 4:00	16	7	10	8	8	32	39	38	37	34	36	39	39	39	38	38	36	29	A	26	25	19	20	27.3	39.2	
29-Feb-08	23 5:00	22	28	29	22	28	23	21	24	34	38	39	41	44	42	39	39	34	33	39	39	36	34	34	33.0	44.0	

Hourly Avg 25.6 25.3 23.1 22.9 22.1 21.7 21.6 19.4 21.1 24.7 28.1 30.3 31.9 32.9 32.7 32.8 31.7 29.0 27.0 24.9 25.1 25.5 23.9 23.9
Hourly Max 39.4 39.7 38.8 38.6 37.7 37.2 36.5 38.9 37.8 36.9 39.6 40.8 41.0 44.0 42.5 40.6 42.7 40.6 37.7 39.1 41.3 41.0 39.3 39.2



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

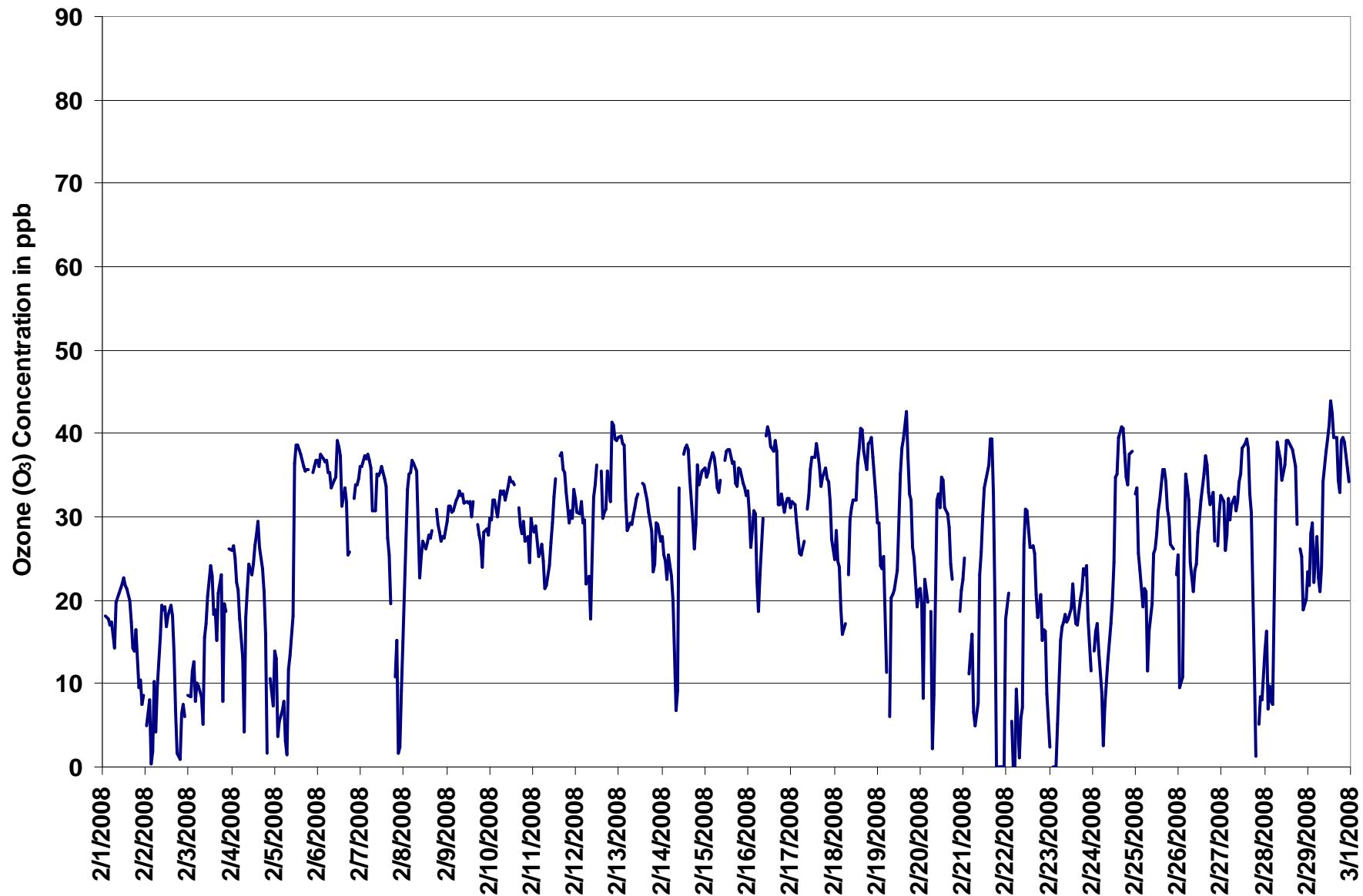
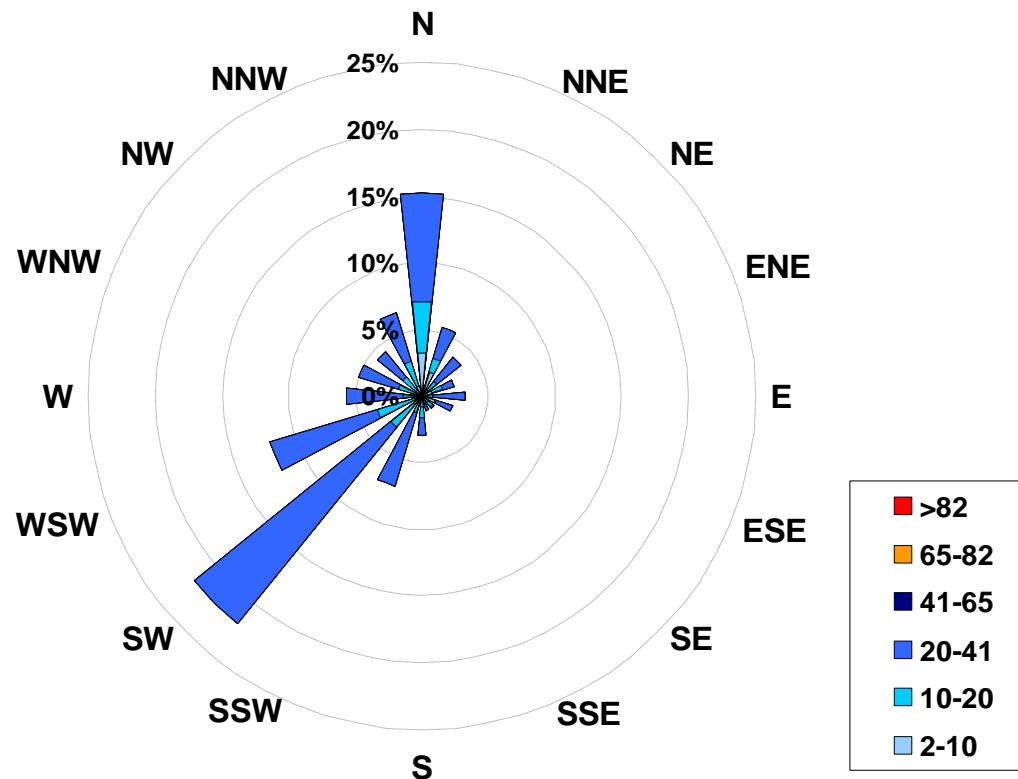


Figure 6. PAS - Crescent Heights Ozone Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Ozone (in ppb) Located at the
Crescent Heights Site for February 2008



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range		Frequency	
2.0	<	10	114
10	to	20	134
20	to	41	414
41	to	65	1
65	to	82	0
> 82			0
Total Non-Zero Values			663



PAS - Crescent Heights Ozone Eight Hour Average Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

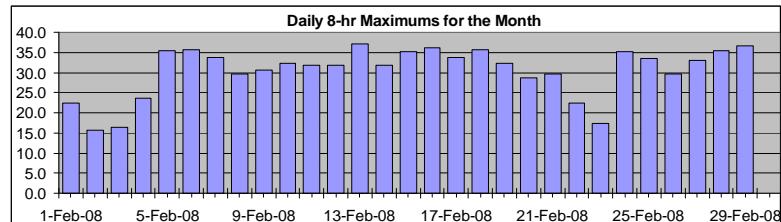
Objective Limit: Alberta Environment: 8-hr 65 ppb
Summary

Number of 8-hr Exceedances:

EIGHT HOUR RUNNING AVERAGE TABLE

Maximum 8-hr Average: 37.1 ppb 13-Feb 3:00 4:00

Ozone (O_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 1:00	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
1:00	22	22	22	20	19	18	17	15	14	15	15	15	15	16	17	18	19	19	18	17	16	14	12	10	8	22.3
2:00	7	6	5	3	3	3	3	2	3	5	7	9	11	12	14	16	15	14	12	10	8	6	5	3	15.5	
3:00	3	3	4	6	6	7	7	6	7	8	9	11	12	13	15	16	16	16	15	14	13	12	12	13	16.4	
4:00	14	16	18	20	21	21	20	17	15	14	14	14	15	16	18	22	23	24	23	21	19	18	15	11	23.7	
5:00	9	6	4	3	3	3	3	2	2	3	5	8	13	17	21	26	29	32	35	35	35	35	35	35	35.5	
6:00	35	35	36	36	36	35	35	34	34	33	32	32	32	33	32	32	31	29	28	26	25	25	26	25	35.7	
7:00	26	29	32	32	33	34	34	33	33	32	32	32	32	31	31	31	30	28	27	23	20	15	11	8	33.8	
8:00	6	6	9	12	15	19	24	27	29	30	29	28	27	26	25	24	25	26	26	26	27	27	27	27	29.7	
9:00	26	27	27	27	28	28	28	29	30	30	30	30	30	31	30	30	30	29	28	26	26	25	25	24	30.6	
10:00	25	25	25	26	27	28	28	29	30	30	30	30	31	31	31	32	32	32	31	30	29	27	25	23	24	32.2
11:00	23	23	24	23	23	23	24	23	22	21	21	22	23	24	25	27	29	31	32	32	31	30	30	29	31.8	
12:00	28	27	27	26	26	25	25	22	20	20	20	21	22	22	24	26	28	29	30	28	28	30	30	32	31.7	
13:00	33	35	36	37	36	35	34	32	31	30	29	29	29	30	30	30	30	30	30	29	27	26	25	25	37.1	
14:00	24	24	23	23	24	23	21	18	16	14	14	13	15	17	20	25	29	32	32	31	31	30	30	29	31.8	
15:00	30	30	31	32	33	33	33	33	33	33	33	33	34	34	34	35	35	35	35	35	34	34	33	33	35.2	
16:00	32	31	30	29	28	26	23	22	21	20	22	24	25	28	32	35	36	35	34	32	32	31	30	29	36.1	
17:00	29	29	29	29	28	27	26	26	26	27	28	30	32	34	34	34	33	32	32	32	30	29	33.8			
18:00	27	26	26	25	23	21	19	18	17	17	19	20	22	26	30	31	33	34	35	35	36	35	34	35.6		
19:00	32	31	29	26	23	18	16	12	11	10	11	12	15	19	21	26	29	31	32	32	30	29	26	23	32.3	
20:00	21	18	14	14	14	13	12	9	8	8	12	14	17	19	22	26	28	29	27	27	N	N	N	N	28.7	
21:00	N	N	N	N	N	12	11	9	8	7	8	11	13	16	20	24	28	30	29	25	22	18	13	9	29.7	
22:00	5	3	2	2	2	2	2	1	1	1	3	7	10	13	16	19	21	22	22	20	18	16	14	12	22.3	
23:00	9	8	6	4	2	2	1	2	4	6	7	9	11	14	15	15	15	16	16	17	17	17	16	16	17.2	
24:00	16	16	15	14	13	11	9	9	8	8	8	9	10	13	18	21	25	29	32	33	35	35	35	35	35.2	
0:00	33	32	30	28	26	24	20	18	16	15	15	16	17	18	21	24	27	28	29	29	28	28	28	25	33.5	
1:00	22	18	15	12	12	13	15	15	16	18	20	23	23	23	24	24	26	29	30	30	29	29	28	26	24	
2:00	22	21	21	20	20	21	22	22	23	24	26	27	29	30	32	33	33	31	28	23	22	16	11	7	33.1	
3:00	5	5	5	5	5	6	8	11	15	17	21	25	28	33	35	35	35	34	34	32	30	26	23	23	35.3	
4:00	21	19	18	18	16	14	15	14	14	16	18	21	24	29	31	34	36	37	36	35	35	34	33	33	36.7	

Hourly Max 35.0 35.3 35.6 37.1 36.3 35.4 35.0 34.3 33.8 33.4 33.2 33.5 33.7 33.9 34.9 35.3 36.1 36.7 36.0 35.5 35.6 35.3 35.0



PAS - Crescent Heights Carbon Monoxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

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

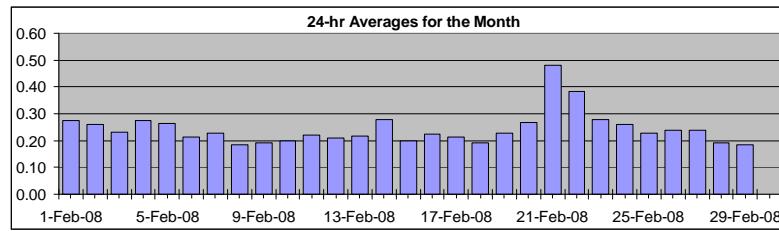
Number of 1-hr Exceedances: 0
Maximum 1-hr Average: 0.9 ppm 22-Feb 9:00 10:00
Maximum 24-hr Value: 0.5 ppm 21-Feb

AIC Time:	31 hrs	Operational Time:	663 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median
	0.7 0.5 0.3 0.2 0.2 0.1	0.2 ppm	0.2 ppm

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start 1:00	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-Feb-08	0.2	A	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.5	0.3	0.5	0.3	0.28	0.50
2-Feb-08	A	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.2	0.3	A	0.26	0.40
3-Feb-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	A	0.23	0.36	
4-Feb-08	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5	A	0.27	0.56		
5-Feb-08	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.3	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	0.26	0.52
6-Feb-08	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.4	A	0.2	0.2	0.2	0.21	0.39	
7-Feb-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	A	0.3	0.2	0.5	0.3	0.23	0.45	
8-Feb-08	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.35	
9-Feb-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	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.22	
10-Feb-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	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.23	
11-Feb-08	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	0.29	
12-Feb-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.43	
13-Feb-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.22	0.33	
14-Feb-08	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.4	0.6	0.8	0.4	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	0.28	0.75	
15-Feb-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.24	
16-Feb-08	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	0.27	
17-Feb-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.31	
18-Feb-08	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.26	
19-Feb-08	0.2	0.2	0.2	0.2	0.2	0.2	A	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.23	0.46	
20-Feb-08	0.2	0.2	0.3	0.2	0.2	A	0.3	0.5	0.7	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	0.3	0.2	0.27	0.73	
21-Feb-08	0.3	0.2	A	0.2	0.2	0.2	0.3	0.6	C	C	A	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.8	0.8	0.7	0.6	0.4	0.48	0.83	
22-Feb-08	0.3	0.3	A	0.2	0.3	0.3	0.8	0.5	0.6	0.9	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.38	0.86	
23-Feb-08	0.4	A	0.3	0.4	0.4	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.28	0.41	
24-Feb-08	A	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26	0.33	
25-Feb-08	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	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	0.23	0.41	
26-Feb-08	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	A	0.2	0.24	0.32	
27-Feb-08	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24	0.60	
28-Feb-08	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	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.26	
29-Feb-08	0.2	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	0.2	0.2	0.2	0.1	0.1	0.2	0.18	0.28	

HOURLY AVERAGE TABLE

Carbon Monoxide (CO)



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

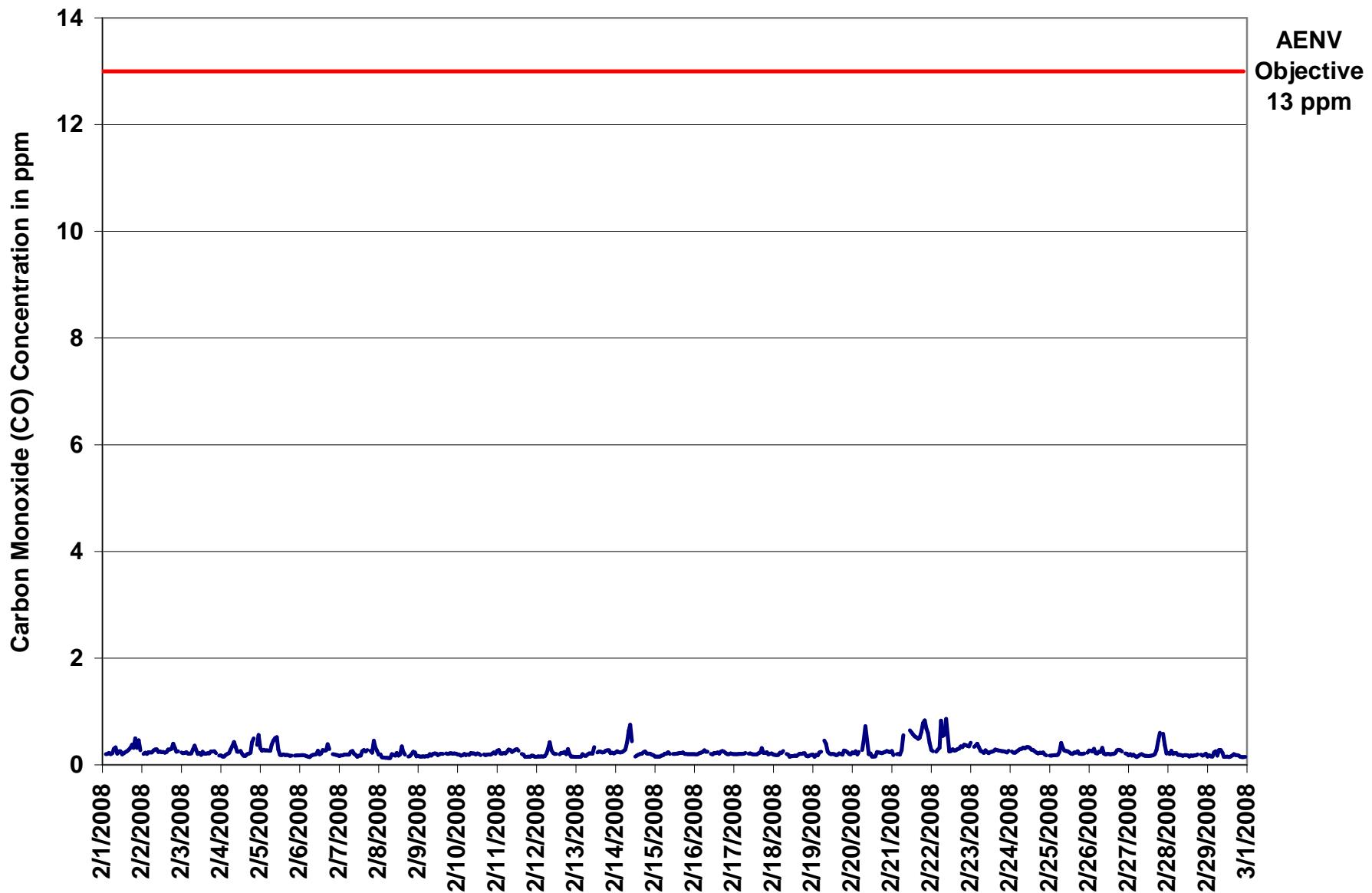


Figure 7. PAS - Crescent Heights Carbon Monoxide 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

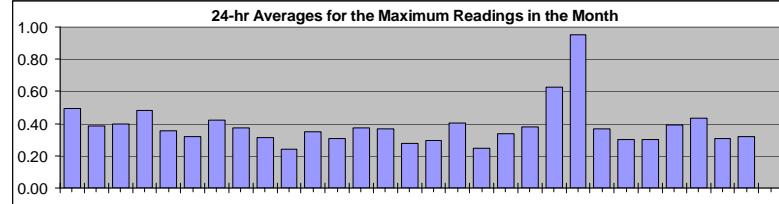
Maximum 1-hr Value:	9.9	ppm	22-Feb	6:00 7:00
Maximum 24-hr Value:	1.0	ppm	22-Feb	

AIC Time:	31 hrs	Operational Time:	663 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median
	1.4 0.9 0.4 0.3 0.2 0.2 0.2	0.4 ppm	0.3 ppm

Day Mountain Standard Time

	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	24-hour Average	Daily Maximum	
1-Feb-08	0:00 1:00	0.3	A	0.2	0.3	0.3	0.2	0.3	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.9	0.6	2.0	0.7	1.2	0.4	0.50	2.02	
2-Feb-08	0:00 1:00	A	0.2	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.4	0.3	0.4	0.3	0.5	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.3	0.38	0.57	
3-Feb-08	0:00 1:00	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.6	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8	0.3	A	0.2	0.40	1.96
4-Feb-08	0:00 1:00	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5	1.4	0.8	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	1.0	1.3	A	0.9	0.9	0.48	1.42
5-Feb-08	0:00 1:00	1.1	0.3	0.4	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	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	0.35	1.06
6-Feb-08	0:00 1:00	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.3	1.3	0.3	0.3	0.4	0.3	0.3	0.5	0.4	A	0.2	0.2	0.2	0.2	0.3	0.32	1.33
7-Feb-08	0:00 1:00	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.2	0.2	1.3	1.2	0.3	0.3	A	0.6	0.4	1.4	0.5	0.4	0.42	1.44	
8-Feb-08	0:00 1:00	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.9	0.3	0.4	1.4	0.5	0.3	A	0.2	0.2	0.5	0.7	0.6	0.3	0.37	1.42	
9-Feb-08	0:00 1:00	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.7	0.6	0.5	0.3	0.4	0.3	0.4	A	0.5	0.3	0.3	0.3	0.3	0.4	0.3	0.31	0.68		
10-Feb-08	0:00 1:00	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.3	0.3	0.2	0.3	0.3	0.3	0.3	A	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.24	0.46		
11-Feb-08	0:00 1:00	0.4	0.4	0.3	0.2	0.3	0.3	0.3	1.0	0.4	0.3	0.5	0.9	0.3	0.4	A	0.3	0.3	0.2	0.2	0.3	0.2	0.4	0.2	0.2	0.35	0.96	
12-Feb-08	0:00 1:00	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.7	0.4	0.3	0.3	0.3	A	0.3	0.4	0.3	0.4	0.3	0.8	0.4	0.2	0.2	0.2	0.31	0.75	
13-Feb-08	0:00 1:00	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.3	1.4	A	0.7	0.7	0.5	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.3	0.37	1.41	
14-Feb-08	0:00 1:00	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.8	0.9	0.9	0.9	A	0.2	0.3	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.37	0.93	
15-Feb-08	0:00 1:00	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	1.0	0.3	A	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.28	0.95		
16-Feb-08	0:00 1:00	0.3	0.2	0.3	0.3	0.3	0.5	0.3	0.4	A	0.3	0.3	0.3	0.5	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.30	0.48		
17-Feb-08	0:00 1:00	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.5	A	0.3	0.3	0.3	0.3	0.3	0.2	0.5	0.3	0.3	0.6	0.3	0.3	0.2	0.2	0.40	3.00		
18-Feb-08	0:00 1:00	0.2	0.2	0.3	0.2	0.3	0.3	0.3	A	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.2	0.2	0.3	0.25	0.36		
19-Feb-08	0:00 1:00	0.3	0.2	0.3	0.2	0.4	0.3	A	1.1	1.0	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.3	0.3	0.34	1.13		
20-Feb-08	0:00 1:00	0.3	0.3	0.3	0.3	0.4	A	0.5	0.7	0.8	0.6	0.4	0.8	0.2	0.2	0.2	0.3	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.38	0.83		
21-Feb-08	0:00 1:00	0.4	0.2	A	0.3	0.2	0.2	0.3	1.4	C	C	A	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.9	1.1	1.2	0.9	0.8	0.63	1.37		
22-Feb-08	0:00 1:00	0.4	0.3	A	0.3	0.3	0.4	9.9	0.6	0.9	1.0	0.9	0.3	0.3	0.4	0.5	0.5	0.4	0.4	1.0	0.5	0.8	0.6	0.8	0.95	9.90		
23-Feb-08	0:00 1:00	0.6	A	0.4	0.5	0.5	0.5	0.3	0.4	0.3	0.4	0.3	0.2	0.5	0.3	0.3	0.6	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.37	0.62		
24-Feb-08	0:00 1:00	A	0.3	0.3	0.2	0.3	0.3	0.4	0.3	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.30	0.38		
25-Feb-08	0:00 1:00	0.2	0.2	0.3	0.2	0.2	0.3	0.4	0.7	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	A	0.4	0.30	0.70	
26-Feb-08	0:00 1:00	0.5	0.3	0.3	0.5	0.3	0.7	0.6	0.4	0.8	0.3	0.2	0.6	0.5	0.3	0.4	0.3	0.3	0.4	0.5	0.3	A	0.3	0.2	0.39	0.77		
27-Feb-08	0:00 1:00	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.5	0.6	1.3	A	2.5	0.7	0.44	2.51		
28-Feb-08	0:00 1:00	0.4	0.3	0.7	0.3	0.3	0.3	0.5	0.2	0.4	0.2	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	0.31	0.74		
29-Feb-08	0:00 1:00	0.2	0.3	0.2	0.2	1.8	0.5	0.3	0.4	0.4	0.5	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.32	1.83	

Hourly Avg	0.30	0.24	0.26	0.24	0.32	0.30	0.65	0.50	0.53	0.42	0.35	0.46	0.29	0.36	0.39	0.35	0.30	0.42	0.37	0.45	0.47	0.47	0.39	0.33
Hourly Max	1.06	0.42	0.74	0.45	1.83	0.73	9.90	1.37	1.42	1.00	0.88	1.41	0.64	1.96	1.42	1.17	0.53	3.00	1.04	1.29	2.02	2.51	1.17	0.93



Status Flag Characters

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

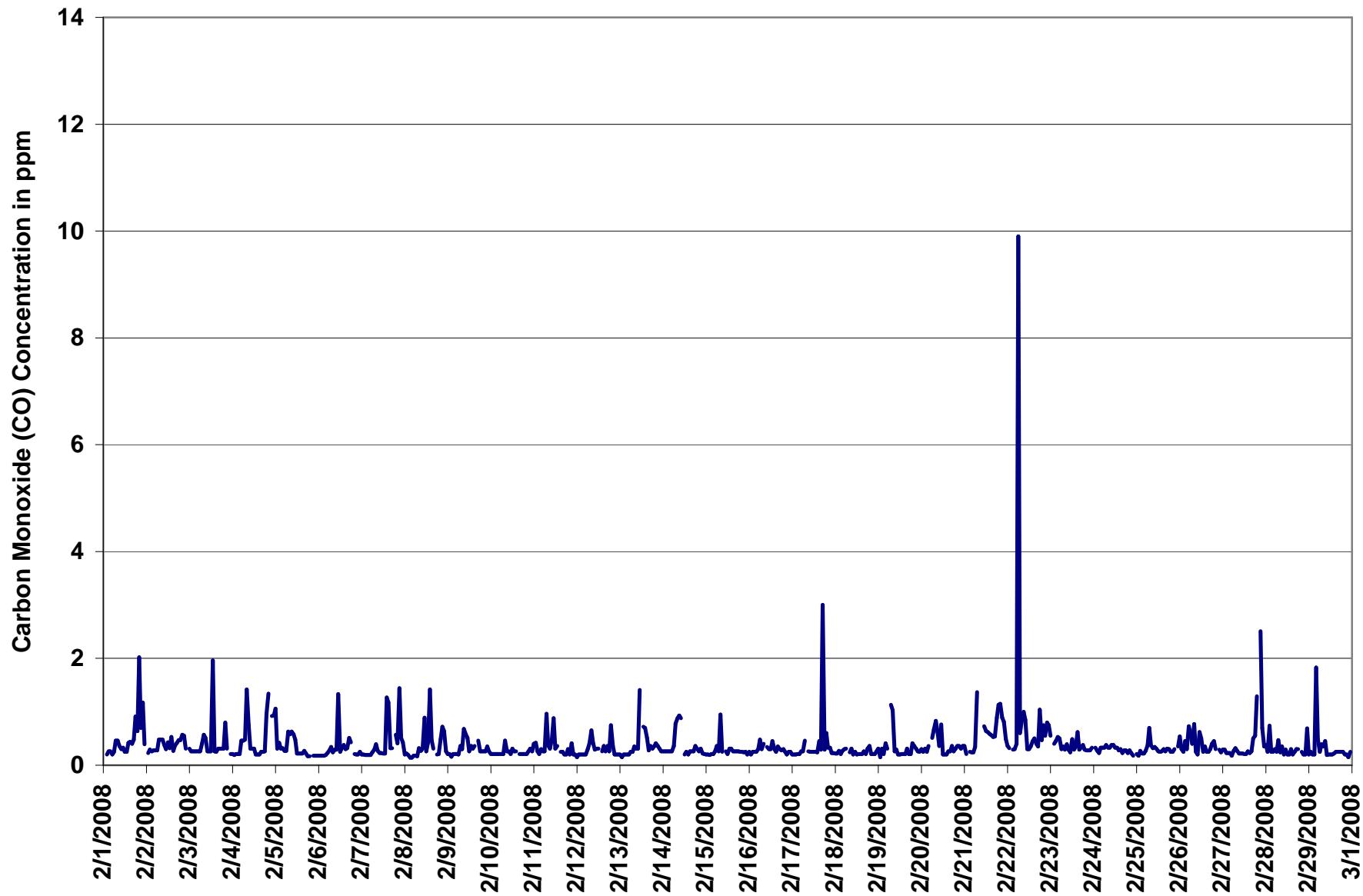
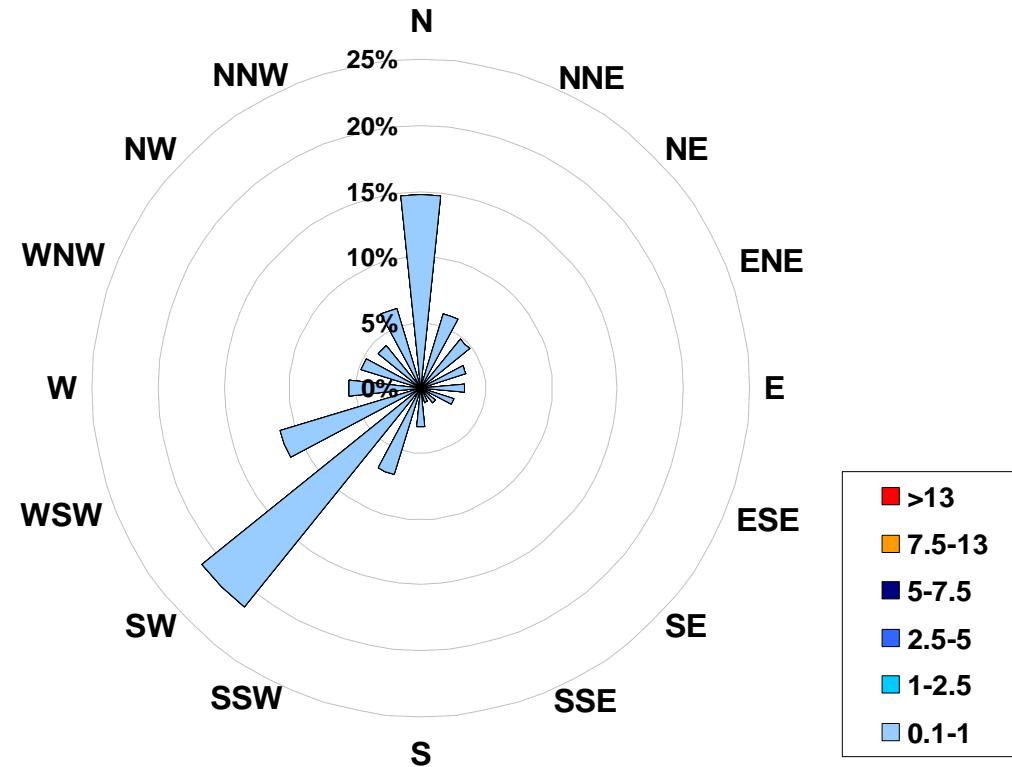


Figure 8. PAS - Crescent Heights Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Carbon Monoxide (in ppm) Located at the Crescent Heights Site for February 2008



Calms:		Frequency Distribution of CO in ppm		
		Range		Frequency (hrs)
0.1	< 1			663
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			663	



PAS - Crescent Heights Carbon Monoxide Eight Hour Average Summary

Station: Crescent Heights
Station Owner: PAS

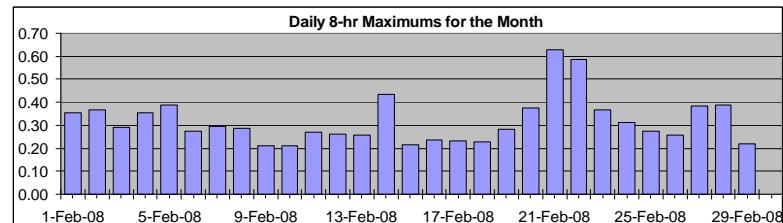
Monitoring Dates: February 1, 2008 to March 1, 2008

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

Number of 8-hr Exceedances: 0
Maximum 8-hr Average: 0.6 ppm 21-Feb 22:00 23:00

EIGHT HOUR RUNNING AVERAGE TABLE

Carbon Monoxide (CO)



Status Flag Characters

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

Day Mountain Standard Time

| | Hour Start 1:00 | 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 | 25:00 | 26:00 | 27:00 | 28:00 | 29:00 | 30:00 | 31:00 | 32:00 | 33:00 | 34:00 | 35:00 | 36:00 | 37:00 | 38:00 | 39:00 | 40:00 | 41:00 | 42:00 | 43:00 | 44:00 | 45:00 | 46:00 | 47:00 | 48:00 | 49:00 | 50:00 | 51:00 | 52:00 | 53:00 | 54:00 | 55:00 | 56:00 | 57:00 | 58:00 | 59:00 | 60:00 | 61:00 | 62:00 | 63:00 | 64:00 | 65:00 | 66:00 | 67:00 | 68:00 | 69:00 | 70:00 | 71:00 | 72:00 | 73:00 | 74:00 | 75:00 | 76:00 | 77:00 | 78:00 | 79:00 | 80:00 | 81:00 | 82:00 | 83:00 | 84:00 | 85:00 | 86:00 | 87:00 | 88:00 | 89:00 | 90:00 | 91:00 | 92:00 | 93:00 | 94:00 | 95:00 | 96:00 | 97:00 | 98:00 | 99:00 | 00:00 | 01:00 | 02:00 | 03:00 | 04:00 | 05:00 | 06:00 | 07:00 | 08:00 | 09:00 | 10:00 | 11:00 | 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 | 25:00 | 26:00 | 27:00 | 28:00 | 29:00 | 30:00 | 31:00 | 32:00 | 33:00 | 34:00 | 35:00 | 36:00 | 37:00 | 38:00 | 39:00 | 40:00 | 41:00 | 42:00 | 43:00 | 44:00 | 45:00 | 46:00 | 47:00 | 48:00 | 49:00 | 50:00 | 51:00 | 52:00 | 53:00 | 54:00 | 55:00 | 56:00 | 57:00 | 58:00 | 59:00 | 60:00 | 61:00 | 62:00 | 63:00 | 64:00 | 65:00 | 66:00 | 67:00 | 68:00 | 69:00 | 70:00 | 71:00 | 72:00 | 73:00 | 74:00 | 75:00 | 76:00 | 77:00 | 78:00 | 79:00 | 80:00 | 81:00 | 82:00 | 83:00 | 84:00 | 85:00 | 86:00 | 87:00 | 88:00 | 89:00 | 90:00 | 91:00 | 92:00 | 93:00 | 94:00 | 95:00 | 96:00 | 97:00 | 98:00 | 99:00 | 00:00 | 01:00 | 02:00 | 03:00 | 04:00 | 05:00 | 06:00 | 07:00 | 08:00 | 09:00 | 10:00 | 11:00 | 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 | 25:00 | 26:00 | 27:00 | 28:00 | 29:00 | 30:00 | 31:00 | 32:00 | 33:00 | 34:00 | 35:00 | 36:00 | 37:00 | 38:00 | 39:00 | 40:00 | 41:00 | 42:00 | 43:00 | 44:00 | 45:00 | 46:00 | 47:00 | 48:00 | 49:00 | 50:00 | 51:00 | 52:00 | 53:00 | 54:00 | 55:00 | 56:00 | 57:00 | 58:00 | 59:00 | 60:00 | 61:00 | 62:00 | 63:00 | 64:00 | 65:00 | 66:00 | 67:00 | 68:00 | 69:00 | 70:00 | 71:00 | 72:00 | 73:00 | 74:00 | 75:00 | 76:00 | 77:00 | 78:00 | 79:00 | 80:00 | 81:00 | 82:00 | 83:00 | 84:00 | 85:00 | 86:00 | 87:00 | 88:00 | 89:00 | 90:00 | 91:00 | 92:00 | 93:00 | 94:00 | 95:00 | 96:00 | 97:00 | 98:00 | 99:00 | 00:00 | 01:00 | 02:00 | 03:00 | 04:00 | 05:00 | 06:00 | 07:00 | 08:00 | 09:00 | 10:00 | 11:00 | 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 | 25:00 | 26:00 | 27:00 | 28:00 | 29:00 | 30:00 | 31:00 | 32:00 | 33:00 | 34:00 | 35:00 | 36:00 | 37:00 | 38:00 | 39:00 | 40:00 | 41:00 | 42:00 | 43:00 | 44:00 | 45:00 | 46:00 | 47:00 | 48:00 | 49:00 | 50:00 | 51:00 | 52:00 | 53:00 | 54:00 | 55:00 | 56:00 | 57:00 | 58:00 | 59:00 | 60:00 | 61:00 | 62:00 | 63:00 | 64:00 | 65:00 | 66:00 | 67:00 | 68:00 | 69:00 | 70:00 | 71:00 | 72:00 | 73:00 | 74:00 | 75:00 | 76:00 | 77:00 | 78:00 | 79:00 | 80:00 | 81:00 | 82:00 | 83:00 | 84:00 | 85:00 | 86:00 | 87:00 | 88:00 | 89:00 | 90:00 | 91:00 | 92:00 | 93:00 | 94:00 | 95:00 | 96:00 | 97:00 | 98:00 | 99:00 | 00:00 | 01:00 | 02:00 | 03:00 | 04:00 | 05:00 | 06:00 | 07:00 | 08:00 | 09:00 | 10:00 | 11:00 | 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 | 25:00 | 26:00 | 27:00 | 28:00 | 29:00 | 30:00 | 31:00 | 32:00 | 33:00 | 34:00 | 35:00 | 36:00 | 37:00 | 38:00 | 39:00 | 40:00 | 41:00 | 42:00 | 43:00 | 44:00 | 45:00 | 46:00 | 47:00 | 48:00 | 49:00 | 50:00 | 51:00 | 52:00 | 53:00 | 54:00 | 55:00 | 56:00 | 57:00 | 58:00 | 59:00 | 60:00 | 61:00 | 62:00 | 63:00 | 64:00 | 65:00 | 66:00 | 67:00 | 68:00 | 69:00 | 70:00 | 71:00 | 72:00 | 73:00 | 74:00 | 75:00 | 76:00 | 77:00 | 78:00 | 79:00 | 80:00 | 81:00 | 82:00 | 83:00 | 84:00 | 85:00 | 86:00 | 87:00 | 88:00 | 89:00 | 90:00 | 91:00 | 92:00 | 93:00 | 94:00 | 95:00 | 96:00 | 97:00 | 98:00 | 99:00 | 00:00 | 01:00 | 02:00 | 03:00 | 04:00 | 05:00 | 06:00 | 07:00 | 08:00 | 09:00 | 10:00 | 11:00 | 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 | 25:00 | 26:00 | 27:00 | 28:00 | 29:00 | 30:00 | 31:00 | 32:00 | 33:00 | 34:00 | 35:00 | 36:00 | 37:00 | 38:00 | 39:00 | 40:00 | 41:00 | 42:00 | 43:00 | 44:00 | 45:00 | 46:00 | 47:00 | 48:00 | 49:00 | 50:00 | 51:00 | 52:00 | 53:00 | 54:00 | 55:00 | 56:00 | 57:00 | 58:00 | 59:00 | 60:00 | 61:00 | 62:00 | 63:00 | 64:00 | 65:00 | 66:00 | 67:00 | 68:00 | 69:00 | 70:00 | 71:00 | 72:00 | 73:00 | 74:00 | 75:00 | 76:00 | 77:00 | 78:00 | 79:00 | 80:00 | 81:00 | 82:00 | 83:00 | 84:00 | 85:00 | 86:00 | 87:00 | 88:00 | 89:00 | 90:00 | 91:00 | 92:00 | 93:00 | 94:00 | 95:00 | 96:00 | 97:00 | 98:00 | 99:00 | 00:00 | 01:00 | 02:00 | 03:00 | 04:00 | 05:00 | 06:00 | 07:00 | 08:00 | 09:00 | 10:00 | 11:00 | 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 | 25:00 | 26:00 | 27:00 | 28:00 | 29:00 | 30:00 | 31:00 | 32:00 | 33:00 | 34:00 | 35:00 | 36:00 | 37:00 | 38:00 | 39:00 | 40:00 | 41:00 | 42:00 | 43:00 | 44:00 | 45:00 | 46:00 | 47:00 | 48:00 | 49:00 | 50:00 | 51:00 | 52:00 | 53:00 | 54:00 | 55:00 | 56:00 | 57:00 | 58:00 | 59:00 | 60:00 | 61:00 | 62:00 | 63:00 | 64:00 | 65:00 | 66:00 | 67:00 | 68:00 | 69:00 | 70:00 | 71:00 | 72:00 | 73:00 | 74:00 | 75:00 | 76:00 | 77:00 | 78:00 | 79:00 | 80:00 | 81:00 | 82:00 | 83:00 | 84:00 | 85:00 | 86:00 | 87:00 | 88:00 | 89:00 | 90:00 | 91:00 | 92:00 | 93:00 | 94:00 | 95:00 | 96:00 | 97:00 | 98:00 | 99:00 | 00:00 | 01:00 | 02:00 | 03:00 | 04:00 | 05:00 | 06:00 | 07:00 | 08:00 | 09:00 | 10:00 | 11:00 | 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 | 25:00 | 26:00 | 27:00 | 28:00 | 29:00 | 30:00 | 31:00 | 32:00 | 33:00 | 34:00 | 35:00 | 36:00 | 37:00 | 38:00 | 39:00 | 40:00 | 41:00 | 42:00 | 43:00 | 44:00 | 45:00 | 46:00 | 47:00 | 48:00 | 49:00 | 50:00 | 51:00 | 52:00 | 53:00 | 54:00 | 55:00 | 56:00 | 57:00 | 58:00 | 59:00 | 60:00 | 61:00 | 62:00 | 63:00 | 64:00 | 65:00 | 66:00 | 67:00 | 68:00 | 69:00 | 70:00 | 71:00 | 72:00 | 73:00 | 74:00 | 75:00 | 76:00 | 77:00 | 78:00 | 79:00 | 80:00 | 81:00 | 82:00 | 83:00 | 84:00 | 85:00 | 86:00 | 87:00 | 88:00 | 89:00 | 90:00 | 91:00 | 92:00 | 93:00 | 94:00 | 95:00 | 96:00 | 97:00 | 98:00 | 99:00 | 00:00 | 01:00 | 02:00 | 03:00 | 04:00 | 05:00 | 06:00 | 07:00 | 08:00 | 09:00 | 10:00 | 11:00 | 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 | 25:00 | 26:00 | 27:00 | 28:00 | 29:00 | 30:00 | 31:00 | 32:00 | 33:00 | 34:00 | 35:00 | 36:00 | 37:00 | 38:00 | 39:00 | 40:00 | 41:00 | 42:00 | 43:00 | 44:00 | 45:00 | 46:00 | 47:00 | 48:00 | 49:00 | 50:00 | 51:00 | 52:00 | 53:00 | 54:00 | 55:00 | 56:00 | 57:00 | 58:00 | 59:00 | 60:00 | 61:00 | 62:00 | 63:00 | 64:00 | 65:00 | 66:00 | 67:00 | 68:00 | 69:00 | 70:00 | 71:00 | 72:00 | 73:00 | 74:00 | 75:00 | 76:00 | 77:00 | 78:00 | 79:00 | 80:00 | 81:00 | 82:00 | 83:00 | 84:00 | 85:00 | 86:00 | 87:00 | 88:00 | 89:00 | 90:00 | 91:00 | 92:00 | 93:00 | 94:00 | 95:00 | 96:00 | 97:00 | 98:00 | 99:00 | 00:00 | 01:00 | 02:00 | 03:00 | 04:00 | 05:00 | 06:00 | 07:00 | 08:00 | 09:00 | 10:00 | 11:00 | 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 | 25:00 | 26:00 | 27:00 | 28:00 | 29:00 | 30:00 | 31:00 | 32:00 | 33:00 | 34:00 | 35:00 | 36:00 | 37:00 | 38:00 | 39:00 | 40:00 | 41:00 | 42:00 | 43:00 | 44:00 | 45:00 | 46:00 | 47:00 | 48:00 | 49:00 | 50:00 | 51:00 | 52:00 | 53:00 | 54:00 | 55:00 | 56:00 | 57:00 | 58:00 | 59:00 |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 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PAS - Crescent Heights Total Hydrocarbons Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

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

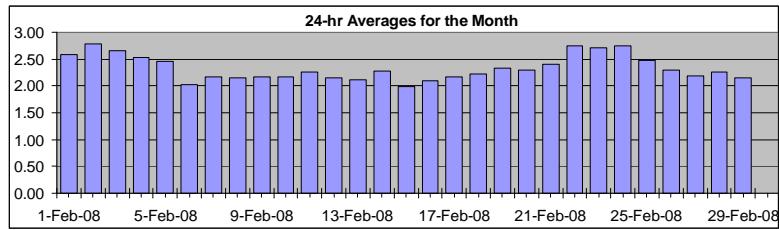
Maximum 1-hr Average:	3.3	ppm	1-Feb	23:00 0:00
Maximum 24-hr Value:	2.8	ppm	2-Feb	

AIC Time:	31 hrs	Operational Time:	661 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median
	3.2 2.9 2.5 2.2 2.1 1.9 1.8	2.3 ppm	2.2 ppm

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-Feb-08	2.3	A	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.7	2.6	2.8	2.8	2.9	3.3	2.58	3.33	
2-Feb-08	2.6	A	2.9	2.7	3.1	3.0	2.8	2.8	2.8	2.8	2.7	2.7	2.8	2.7	2.7	2.7	2.7	2.9	3.0	2.9	2.8	2.7	2.7	A	2.79	3.07	
3-Feb-08	2.7	2.7	2.7	2.7	2.8	2.7	2.8	2.9	2.9	2.7	2.6	2.7	2.5	2.6	2.7	2.7	2.7	2.6	2.6	2.6	2.6	2.6	A	2.3	2.66	2.94	
4-Feb-08	2.3	2.3	2.3	2.4	2.5	2.5	2.5	2.6	2.8	2.8	2.5	2.5	2.6	2.4	2.3	2.3	2.5	2.6	2.5	2.6	2.8	A	2.8	3.1	2.54	3.11	
5-Feb-08	2.9	3.2	3.1	3.0	3.2	3.1	3.0	2.8	2.6	2.6	2.7	2.2	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	1.9	2.46	3.16	
6-Feb-08	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	A	2.1	2.1	2.1	2.1	2.02	2.15	
7-Feb-08	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.2	2.3	A	2.6	2.5	2.7	2.9	2.8	2.17	2.88	
8-Feb-08	2.5	2.3	2.0	1.9	1.9	1.8	1.8	1.9	2.0	2.5	2.4	2.2	2.2	2.2	2.2	2.2	A	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.15	2.55	
9-Feb-08	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.1	2.2	2.1	A	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.17	2.23		
10-Feb-08	2.2	2.2	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.2	A	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.18	2.35		
11-Feb-08	2.4	2.4	2.3	2.3	2.4	2.4	2.4	2.4	2.5	2.5	2.4	2.4	2.3	2.2	A	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.25	2.49		
12-Feb-08	2.1	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	A	2.2	2.2	2.1	2.2	2.4	1.9	1.9	1.8	2.15	2.44		
13-Feb-08	1.8	1.8	1.8	1.8	2.0	2.0	2.0	2.1	2.1	2.1	2.2	2.2	A	2.1	2.2	2.2	2.2	2.3	2.3	2.4	2.4	2.3	2.3	2.4	2.12	2.37	
14-Feb-08	2.4	2.5	2.4	2.4	2.3	2.3	2.4	2.4	2.5	2.6	2.3	A	2.1	2.2	2.1	2.2	2.2	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.28	2.56	
15-Feb-08	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.99	2.10		
16-Feb-08	1.9	2.0	2.0	2.1	2.1	2.1	2.2	2.1	2.1	A	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.2	2.1	2.2	2.2	2.4	2.1	2.10	2.39	
17-Feb-08	2.1	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	A	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.16	2.25	
18-Feb-08	2.3	2.3	2.3	2.4	2.5	2.4	2.4	A	2.3	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.21	2.48		
19-Feb-08	2.1	2.1	2.2	2.3	2.4	2.4	A	2.7	2.5	2.4	2.6	2.6	2.5	2.3	2.2	2.2	2.1	2.1	2.1	2.2	2.3	2.4	2.2	2.32	2.74		
20-Feb-08	2.5	2.5	2.8	2.4	2.4	A	2.5	2.6	2.6	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.29	2.83		
21-Feb-08	2.3	2.2	A	2.3	2.3	2.4	2.6	2.5	2.6	2.5	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.41	2.90		
22-Feb-08	2.4	2.4	A	2.6	2.7	2.8	3.0	3.1	3.2	3.1	2.6	2.3	2.2	2.8	2.8	2.6	2.5	2.5	2.6	2.5	2.8	3.2	3.1	2.74	3.23		
23-Feb-08	3.3	A	3.1	3.3	3.1	2.8	2.4	2.4	2.4	2.5	2.5	2.6	2.6	2.6	2.8	2.8	2.7	2.6	2.6	2.6	2.6	2.6	2.7	2.9	2.72	3.31	
24-Feb-08	A	2.7	2.7	2.7	2.8	3.0	3.0	3.1	3.1	3.1	3.0	3.0	3.0	3.1	3.0	2.9	2.7	2.4	2.3	2.4	2.3	2.3	2.3	A	2.75	3.10	
25-Feb-08	2.4	2.3	2.5	2.6	2.6	2.6	2.7	2.7	2.7	2.5	2.6	2.6	2.6	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.4	2.4	A	2.47	2.71		
26-Feb-08	2.6	2.5	2.5	2.6	2.4	2.3	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	A	2.2	2.23		
27-Feb-08	2.3	2.2	2.1	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.18	2.81	
28-Feb-08	2.6	2.4	2.4	2.6	2.7	3.0	2.5	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	A	2.1	2.2	2.2	2.2	2.2	2.2	2.25	2.97	
29-Feb-08	2.2	2.3	2.2	2.3	2.4	2.5	2.3	2.3	2.3	2.3	2.3	2.3	C	C	C	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.15	2.47	

HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)



Status Flag Characters

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

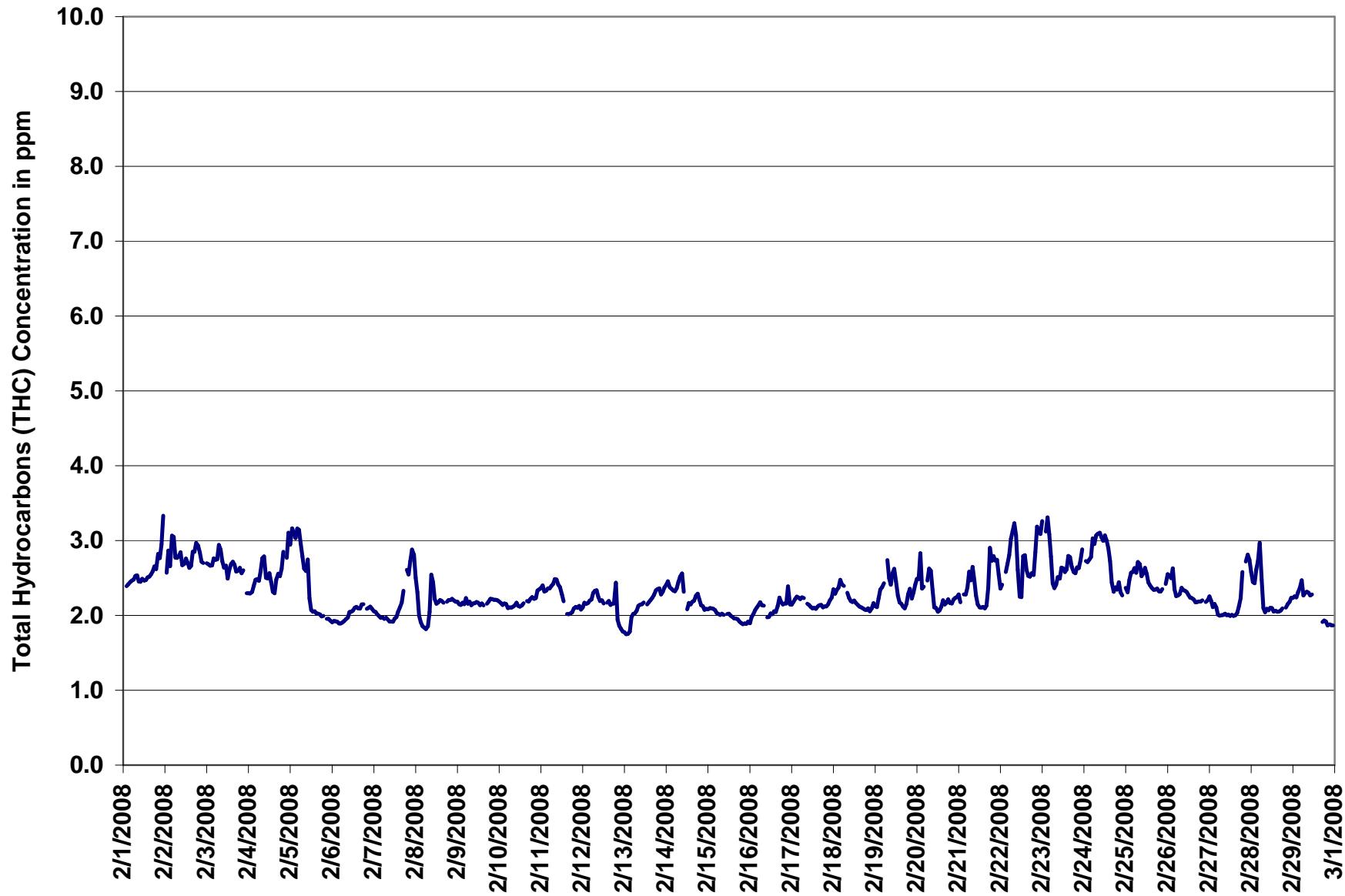


Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

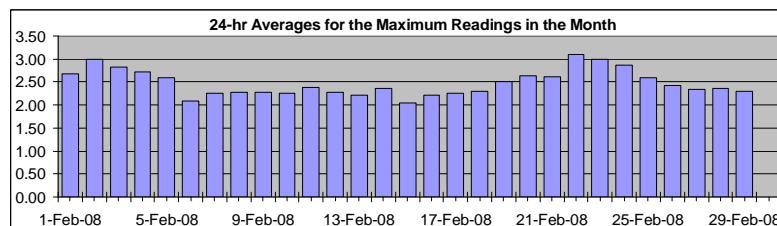
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Hydrocarbons (THC)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	8.2	ppm	20-Feb	2:00 3:00
Maximum 24-hr Value:	3.1	ppm	22-Feb	



AIC Time:	31 hrs						Operational Time:	661 hrs					
Calibration Time:	4 hrs						AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	Average	2.5	ppm	Median	2.3	ppm
	3.6	3.2	2.7	2.3	2.2	2.0	1.9						

Status Flag Characters

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

Day Mountain Standard Time

	Hour Start Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	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
		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	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-Feb-08	2.4	A	2.5	2.5	2.5	2.6	2.6	2.6	2.7	2.5	2.5	2.6	2.5	2.5	2.6	2.6	2.6	2.7	2.9	2.8	3.1	3.0	3.2	3.5	2.68	3.45	
2-Feb-08	A	2.9	3.0	2.9	3.6	3.7	2.9	3.0	2.9	3.0	2.8	2.8	2.8	2.8	2.7	2.8	3.2	3.1	3.1	3.4	3.1	2.9	2.8	A	3.00	3.70	
3-Feb-08	2.8	2.8	2.9	2.8	2.9	2.8	2.9	3.1	3.0	2.8	2.7	2.7	2.7	3.3	2.8	2.8	2.8	2.9	2.7	2.9	2.9	2.8	A	2.5	2.81	3.25	
4-Feb-08	2.5	2.4	2.4	2.6	3.0	2.7	2.6	2.8	3.2	3.0	2.7	2.6	2.6	2.5	2.5	2.4	2.6	2.6	2.6	2.8	3.2	A	3.0	2.72	3.31		
5-Feb-08	3.4	3.3	3.2	3.3	3.3	3.5	3.1	3.0	2.7	2.8	2.9	2.6	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	A	2.0	2.0	2.0	2.59	3.49	
6-Feb-08	2.0	2.0	2.0	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.1	2.3	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	A	2.1	2.2	2.2	2.09	2.29	
7-Feb-08	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.2	2.3	2.4	A	2.7	2.7	2.9	3.1	3.1	2.26	3.09	
8-Feb-08	3.3	2.5	2.1	1.9	1.9	1.9	1.9	2.0	2.3	2.6	2.6	2.3	2.2	2.2	2.6	2.3	2.2	2.2	2.3	2.2	2.3	2.3	2.4	2.2	2.28	3.30	
9-Feb-08	2.3	2.2	2.2	2.2	2.2	2.8	2.2	2.3	2.3	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.27	2.82	
10-Feb-08	2.3	2.2	2.2	2.3	2.2	2.1	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.26	2.46		
11-Feb-08	2.5	2.6	2.5	2.4	2.5	2.5	2.5	2.8	2.5	2.5	2.7	2.9	2.4	2.3	A	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.37	2.89	
12-Feb-08	2.2	2.3	2.2	2.2	2.3	2.3	2.4	2.4	2.4	2.4	2.3	2.3	2.2	A	2.3	2.3	2.3	2.7	2.8	2.2	1.9	1.9	1.8	2.27	2.83		
13-Feb-08	1.8	1.8	1.8	1.9	2.1	2.1	2.1	2.1	2.4	2.2	2.2	2.4	A	2.2	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.3	2.4	2.4	2.21	2.43	
14-Feb-08	2.5	2.5	2.4	2.5	2.4	2.4	2.5	2.5	2.6	2.7	2.6	A	2.1	2.5	2.3	2.2	2.3	2.3	2.4	2.3	2.3	2.2	2.1	2.1	2.37	2.66	
15-Feb-08	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.1	A	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.04	2.18		
16-Feb-08	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.2	2.2	A	2.0	2.1	2.2	2.1	2.1	2.3	2.3	2.2	2.2	2.3	2.2	2.3	2.3	2.22	3.28		
17-Feb-08	2.2	2.3	2.3	2.3	2.3	2.2	2.3	2.3	A	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.8	2.2	2.2	2.3	2.3	2.4	2.3	2.26	2.83		
18-Feb-08	2.4	2.4	2.5	2.5	2.7	2.5	2.5	A	2.4	2.3	2.3	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.1	2.29	2.66		
19-Feb-08	2.2	2.2	2.3	2.6	2.6	2.5	A	3.3	3.1	2.6	2.6	2.7	2.6	2.4	2.2	2.3	2.2	2.2	2.2	2.2	2.6	2.7	2.6	2.4	2.51	3.32	
20-Feb-08	2.8	2.7	8.2	2.5	2.5	A	2.6	2.8	2.7	2.5	2.2	2.2	2.1	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.63	8.15		
21-Feb-08	2.4	2.2	A	2.3	2.4	2.6	2.9	2.7	3.1	2.7	2.3	2.2	2.2	2.2	2.2	2.1	2.2	3.3	3.4	3.1	3.0	2.9	2.9	2.7	2.61	3.36	
22-Feb-08	2.5	2.5	A	2.7	2.9	2.9	7.2	3.2	3.5	3.3	3.0	2.3	2.3	3.0	2.9	2.7	2.7	2.6	3.0	2.6	3.1	3.6	3.5	3.2	3.10	7.19	
23-Feb-08	4.3	A	4.0	5.3	3.2	3.2	2.6	2.4	2.5	2.7	2.6	2.8	2.7	2.6	2.7	2.9	2.7	2.8	2.6	2.7	2.7	2.8	3.0	2.99	5.27		
24-Feb-08	A	2.8	2.8	2.8	3.2	3.2	3.1	3.4	3.2	3.2	3.1	3.1	3.2	3.0	2.9	2.5	2.4	2.5	2.4	2.5	2.4	2.4	2.3	A	2.87	3.35	
25-Feb-08	2.5	2.5	2.6	2.7	2.9	2.8	2.7	2.9	2.9	2.6	2.6	2.7	2.7	2.5	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.4	A	2.60	2.93		
26-Feb-08	2.8	2.8	2.6	2.9	2.6	2.4	2.3	2.3	2.6	2.4	2.4	2.4	2.3	2.3	2.3	2.2	2.3	2.3	2.3	2.3	2.3	2.2	2.4	2.42	2.86		
27-Feb-08	2.4	2.4	2.2	2.3	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.0	2.1	2.4	2.6	3.1	A	3.2	3.2	2.8	2.33	3.24		
28-Feb-08	2.8	2.5	2.5	2.9	3.0	3.2	3.0	2.2	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.4	2.37	3.19		
29-Feb-08	2.3	2.3	2.4	3.1	2.8	2.9	2.3	2.4	2.4	2.5	2.3	2.3	C	C	C	A	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.29	3.12		

Hourly Avg 2.50 2.42 2.66 2.57 2.57 2.57 2.63 2.53 2.58 2.51 2.44 2.41 2.34 2.37 2.35 2.32 2.34 2.34 2.40 2.43 2.48 2.46 2.45 2.50 2.48
Hourly Max 4.28 3.34 8.15 5.27 3.57 3.70 7.19 3.35 3.54 3.25 3.16 3.11 3.14 3.25 3.01 2.94 3.16 3.34 3.36 3.39 3.17 3.55 3.54 3.45

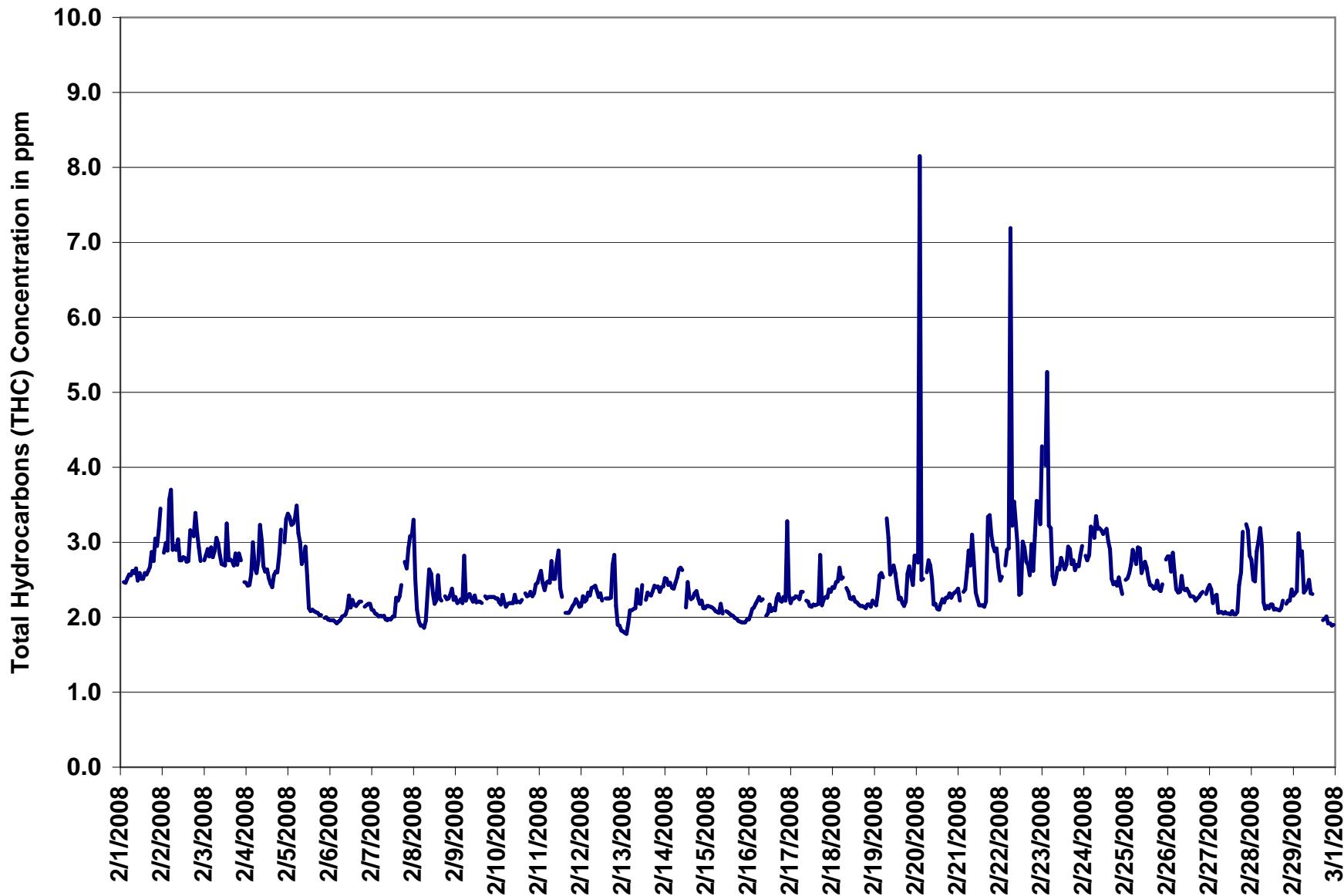
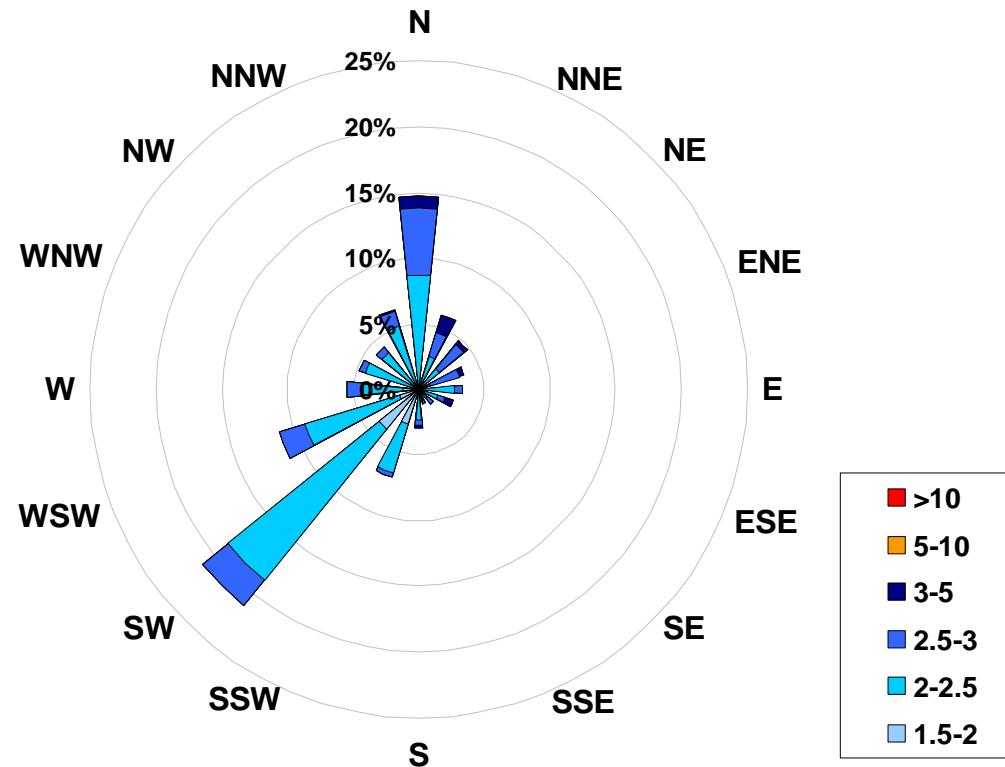


Figure 10. PAS - Crescent Heights Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Total Hydrocarbons (in ppm)
Located at the Crescent Heights Site for February 2008



Calms:	0%	Frequency Distribution of THC in ppm		
		Range	Frequency (hrs)	
1.5	<	2	66	
2	to	2.5	421	
2.5	to	3	148	
3	to	5	26	
5	to	10	0	
> 10			0	
Total Non-Zero Values				661



PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

Draft Objective Limit: Alberta Environment: 1-hr - $\mu\text{g}/\text{m}^3$ 24-hr 30 $\mu\text{g}/\text{m}^3$
Summary

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	24.3 $\mu\text{g}/\text{m}^3$
Maximum 24-hr Value:	9.4 $\mu\text{g}/\text{m}^3$
23-Feb	4:00 5:00
23-Feb	23-Feb

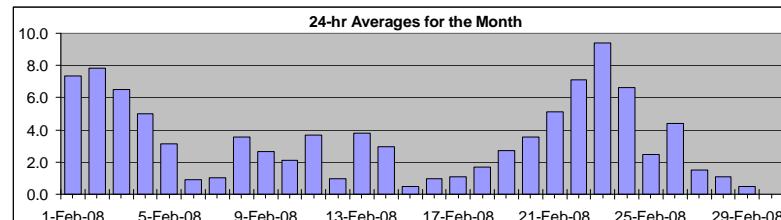
AIC Time:	0 hrs	Operational Time:	692 hrs							
Calibration Time:	1 hrs	AMD Operational Uptime:	99.6%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	14.8	9.6	5.5	2.5	0.7	0.0	0.0	3.5	3 $\mu\text{g}/\text{m}^3$	2.6 $\mu\text{g}/\text{m}^3$

Day Mountain Standard Time

	Hour Start 0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	25:00	26:00	27:00	28:00	29:00	24-hour Average	Daily Maximum
Hour End 1:00	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	25:00	26:00	27:00	28:00	29:00			
1-Feb-08	6	8	7	7	8	6	7	8	7	7	9	8	6	7	9	10	10	10	5	5	7	7	7	7	7	7	7	7	7.4	10.2		
2-Feb-08	9	8	8	8	8	6	6	7	6	8	7	7	7	8	8	9	8	10	10	9	9	8	7	7	7	7	7	7	7.9	10.0		
3-Feb-08	6	5	5	5	2	4	4	6	9	8	8	8	5	7	8	7	7	7	7	9	8	7	7	6	6	6	6	6	6.5	8.6		
4-Feb-08	4	4	5	4	4	4	5	7	7	6	7	6	6	4	5	4	4	5	6	5	5	5	5	5	5	5	5	5	5.0	7.2		
5-Feb-08	4	4	9	7	6	6	5	5	9	11	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.2	10.9		
6-Feb-08	0	0	D	0	0	0	0	2	2	3	3	1	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.9	3.1		
7-Feb-08	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	3	3	3	3	1	0	1	2	1	1.0	3.4						
8-Feb-08	0	2	1	0	1	6	0	1	1	0	6	6	6	6	4	5	5	7	4	6	3	4	4	5	3.6	7.0						
9-Feb-08	3	2	3	3	3	3	2	3	2	3	3	4	2	2	6	2	3	2	3	3	4	1	0	2	2.7	5.9						
10-Feb-08	1	0	0	0	0	0	0	0	1	1	3	4	2	3	3	1	4	2	4	4	3	3	5	5	2.1	5.0						
11-Feb-08	5	5	5	6	5	5	4	4	8	4	5	6	7	5	5	1	1	0	1	1	1	1	2	2	3.7	7.8						
12-Feb-08	1	1	1	1	1	2	2	3	3	1	1	1	0	1	1	1	0	0	D	0	0	0	0	0	0	1.0	3.2					
13-Feb-08	0	0	0	0	1	1	3	4	6	6	5	6	4	4	4	6	4	6	7	7	7	2	3	4	3.8	7.4						
14-Feb-08	2	4	3	4	4	2	3	7	7	12	8	0	0	1	1	2	2	2	2	2	2	1	1	0	2.9	11.9						
15-Feb-08	0	0	0	0	0	1	1	1	1	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0.5	2.8						
16-Feb-08	0	1	1	0	1	1	1	2	2	1	1	4	0	1	1	0	1	1	0	1	0	1	2	1.0	3.8							
17-Feb-08	1	0	1	1	1	1	1	1	4	0	0	0	0	0	0	1	1	2	1	2	1	2	2	2	1.1	3.5						
18-Feb-08	0	0	0	1	1	3	2	2	2	3	2	3	3	2	2	2	3	1	3	2	2	1	0	1	1.7	3.1						
19-Feb-08	3	0	1	3	2	4	3	5	8	5	5	4	5	3	2	2	3	0	0	2	2	1	3	0	2.7	8.1						
20-Feb-08	0	0	0	0	1	2	5	9	16	6	1	4	1	2	4	7	4	5	4	3	3	3	3	3	3.6	15.5						
21-Feb-08	3	1	2	3	3	5	4	6	14	7	5	4	5	6	5	4	4	3	7	10	8	7	5	2	5.1	14.5						
22-Feb-08	1	3	5	5	6	7	9	18	18	15	15	5	5	11	7	6	6	4	5	7	5	2	0	3	7.1	18.3						
23-Feb-08	7	15	10	14	24	11	3	2	7	10	9	10	10	9	12	13	14	9	7	6	8	6	5	2	9.4	24.3						
24-Feb-08	7	10	1	2	10	17	14	13	11	9	13	12	11	6	8	7	2	2	2	1	2	1	0	0	6.6	17.2						
25-Feb-08	0	0	0	0	1	0	2	6	7	10	8	8	5	2	2	3	2	1	0	0	0	0	1	1	2.5	9.9						
26-Feb-08	7	3	3	10	7	3	3	5	9	7	6	5	6	5	5	4	3	3	2	2	3	2	1	1	4.4	10.3						
27-Feb-08	1	2	1	0	0	0	1	0	0	1	1	1	1	1	2	0	1	1	1	3	4	4	3	3	1.5	4.3						
28-Feb-08	2	1	3	2	2	3	6	0	0	0	1	2	0	0	0	0	0	0	0	2	1	1	0	0	1.1	5.5						
29-Feb-08	0	0	D	0	0	1	1	2	2	0	1	1	C	0	0	0	0	0	0	0	0	1	0	0	0.5	2.2						

HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})



Status Flag Characters

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

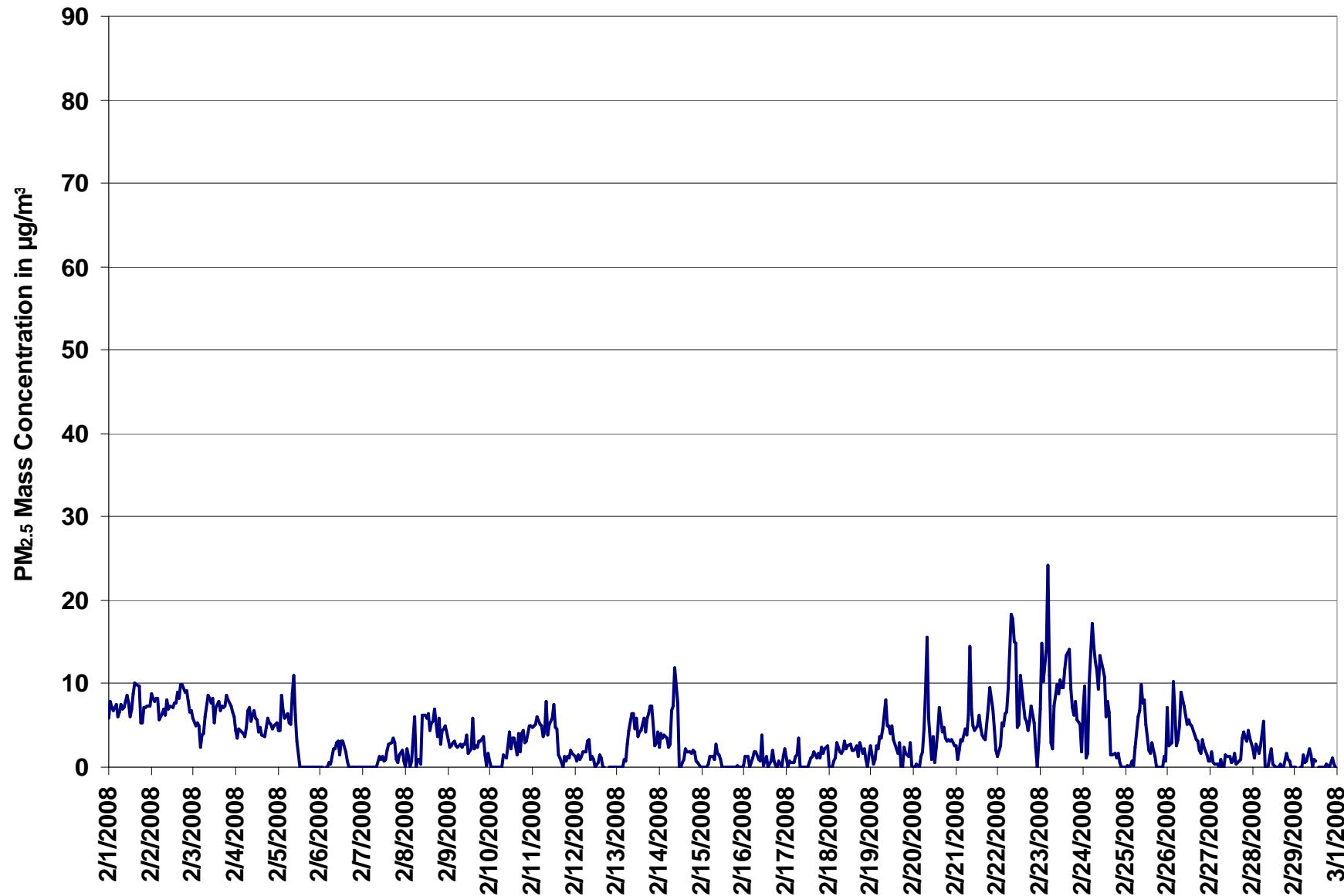


Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	36.8	µg/m ³	8-Feb	5:00 6:00
Maximum 24-hr Value:	14.5	µg/m ³	23-Feb	

AIC Time:	0 hrs	Operational Time:	695 hrs
Calibration Time:	1 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average / Median	Geomean
	22.3 15.4 8.5 5.5 3.2 0.5 0.0	6.4	5.8 µg/m ³

Day Mountain Standard Time

	Hour Start 1:00	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	25:00	26:00	27:00	28:00	29:00	30:00	31:00	32:00	33:00	34:00	35:00	36:00	37:00	38:00	39:00	40:00	41:00	42:00	43:00	44:00	45:00	46:00	47:00	48:00	49:00	50:00	51:00	52:00	53:00	54:00	55:00	56:00	57:00	58:00	59:00	60:00	61:00	62:00	63:00	64:00	65:00	66:00	67:00	68:00	69:00	70:00	71:00	72:00	73:00	74:00	75:00	76:00	77:00	78:00	79:00	80:00	81:00	82:00	83:00	84:00	85:00	86:00	87:00	88:00	89:00	90:00	91:00	92:00	93:00	94:00	95:00	96:00	97:00	98:00	99:00	100:00	101:00	102:00	103:00	104:00	105:00	106:00	107:00	108:00	109:00	110:00	111:00	112:00	113:00	114:00	115:00	116:00	117:00	118:00	119:00	120:00	121:00	122:00	123:00	124:00	125:00	126:00	127:00	128:00	129:00	130:00	131:00	132:00	133:00	134:00	135:00	136:00	137:00	138:00	139:00	140:00	141:00	142:00	143:00	144:00	145:00	146:00	147:00	148:00	149:00	150:00	151:00	152:00	153:00	154:00	155:00	156:00	157:00	158:00	159:00	160:00	161:00	162:00	163:00	164:00	165:00	166:00	167:00	168:00	169:00	170:00	171:00	172:00	173:00	174:00	175:00	176:00	177:00	178:00	179:00	180:00	181:00	182:00	183:00	184:00	185:00	186:00	187:00	188:00	189:00	190:00	191:00	192:00	193:00	194:00	195:00	196:00	197:00	198:00	199:00	200:00	201:00	202:00	203:00	204:00	205:00	206:00	207:00	208:00	209:00	210:00	211:00	212:00	213:00	214:00	215:00	216:00	217:00	218:00	219:00	220:00	221:00	222:00	223:00	224:00	225:00	226:00	227:00	228:00	229:00	230:00	231:00	232:00	233:00	234:00	235:00	236:00	237:00	238:00	239:00	240:00	241:00	242:00	243:00	244:00	245:00	246:00	247:00	248:00	249:00	250:00	251:00	252:00	253:00	254:00	255:00	256:00	257:00	258:00	259:00	260:00	261:00	262:00	263:00	264:00	265:00	266:00	267:00	268:00	269:00	270:00	271:00	272:00	273:00	274:00	275:00	276:00	277:00	278:00	279:00	280:00	281:00	282:00	283:00	284:00	285:00	286:00	287:00	288:00	289:00	290:00	291:00	292:00	293:00	294:00	295:00	296:00	297:00	298:00	299:00	300:00	301:00	302:00	303:00	304:00	305:00	306:00	307:00	308:00	309:00	310:00	311:00	312:00	313:00	314:00	315:00	316:00	317:00	318:00	319:00	320:00	321:00	322:00	323:00	324:00	325:00	326:00	327:00	328:00	329:00	330:00	331:00	332:00	333:00	334:00	335:00	336:00	337:00	338:00	339:00	340:00	341:00	342:00	343:00	344:00	345:00	346:00	347:00	348:00	349:00	350:00	351:00	352:00	353:00	354:00	355:00	356:00	357:00	358:00	359:00	360:00	361:00	362:00	363:00	364:00	365:00	366:00	367:00	368:00	369:00	370:00	371:00	372:00	373:00	374:00	375:00	376:00	377:00	378:00	379:00	380:00	381:00	382:00	383:00	384:00	385:00	386:00	387:00	388:00	389:00	390:00	391:00	392:00	393:00	394:00	395:00	396:00	397:00	398:00	399:00	400:00	401:00	402:00	403:00	404:00	405:00	406:00	407:00	408:00	409:00	410:00	411:00	412:00	413:00	414:00	415:00	416:00	417:00	418:00	419:00	420:00	421:00	422:00	423:00	424:00	425:00	426:00	427:00	428:00	429:00	430:00	431:00	432:00	433:00	434:00	435:00	436:00	437:00	438:00	439:00	440:00	441:00	442:00	443:00	444:00	445:00	446:00	447:00	448:00	449:00	450:00	451:00	452:00	453:00	454:00	455:00	456:00	457:00	458:00	459:00	460:00	461:00	462:00	463:00	464:00	465:00	466:00	467:00	468:00	469:00	470:00	471:00	472:00	473:00	474:00	475:00	476:00	477:00	478:00	479:00	480:00	481:00	482:00	483:00	484:00	485:00	486:00	487:00	488:00	489:00	490:00	491:00	492:00	493:00	494:00	495:00	496:00	497:00	498:00	499:00	500:00	501:00	502:00	503:00	504:00	505:00	506:00	507:00	508:00	509:00	510:00	511:00	512:00	513:00	514:00	515:00	516:00	517:00	518:00	519:00	520:00	521:00	522:00	523:00	524:00	525:00	526:00	527:00	528:00	529:00	530:00	531:00	532:00	533:00	534:00	535:00	536:00	537:00	538:00	539:00	540:00	541:00	542:00	543:00	544:00	545:00	546:00	547:00	548:00	549:00	550:00	551:00	552:00	553:00	554:00	555:00	556:00	557:00	558:00	559:00	560:00	561:00	562:00	563:00	564:00	565:00	566:00	567:00	568:00	569:00	570:00	571:00	572:00	573:00	574:00	575:00	576:00	577:00	578:00	579:00	580:00	581:00	582:00	583:00	584:00	585:00	586:00	587:00	588:00	589:00	590:00	591:00	592:00	593:00	594:00	595:00	596:00	597:00	598:00	599:00	600:00	601:00	602:00	603:00	604:00	605:00	606:00	607:00	608:00	609:00	610:00	611:00	612:00	613:00	614:00	615:00	616:00	617:00	618:00	619:00	620:00	621:00	622:00	623:00	624:00	625:00	626:00	627:00	628:00	629:00	630:00	631:00	632:00	633:00	634:00	635:00	636:00	637:00	638:00	639:00	640:00	641:00	642:00	643:00	644:00	645:00	646:00	647:00	648:00	649:00	650:00	651:00	652:00	653:00	654:00	655:00	656:00	657:00	658:00	659:00	660:00	661:00	662:00	663:00	664:00	665:00	666:00	667:00	668:00	669:00	670:00	671:00	672:00	673:00	674:00	675:00	676:00	677:00	678:00	679:00	680:00	681:00	682:00	683:00	684:00	685:00	686:00	687:00	688:00	689:00	690:00	691:00	692:00	693:00	694:00	695:00	696:00	697:00	698:00	699:00	700:00	701:00	702:00	703:00	704:00	705:00	706:00	707:00	708:00	709:00	710:00	711:00	712:00	713:00	714:00	715:00	716:00	717:00	718:00	719:00	720:00	721:00	722:00	723:00	724:00	725:00	726:00	727:00	728:00	729:00	730:00	731:00	732:00	733:00	734:00	735:00	736:00	737:00	738:00	739:00	740:00	741:00	742:00	743:00	744:00	745:00	746:00	747:00	748:00	749:00	750:00	751:00	752:00	753:00	754:00	755:00	756:00	757:00	758:00	759:00	760:00	761:00	762:00	763:00	764:00	765:00	766:00	767:00	768:00	769:00	770:00	771:00	772:00	773:00	774:00	775:00	776:00	777:00	778:00	779:00	780:00	781:00	782:00	783:00	784:00	785:00	786:00	787:00	788:00	789:00	790:00	791:00	792:00	793:00	794:00	795:00	796:00	797:00	798:00	799:00	800:00	801:00	802:00	803:00	804:00	805:00	806:00	807:00	808:00	809:00	810:00	811:00	812:00	813:00	814:00	815:00	816:00	817:00	818:00	819:00	820:00	821:00	822:00	823:00	824:00	825:00	826:00	827:00	828:00	829:00	830:00	831:00	832:00	833:00	834:00	835:00	836:00	837:00	838:00	839:00	840:00	841:00	842:00	843:00	844:00	845:00	846:00	847:00	848:00	849:00	850:00	851:00	852:00	853:00	854:00	855:00	856:00	857:00	858:00	859:00	860:00	861:00	862:00	863:00	864:00	865:00	866:00	867:00	868:00	869:00	870:00	871:00	872:00	873:00	874:00	875:00	876:00	877:00	878:00	879:00	880:00	881:00	882:00	883:00	884:00	885:00	886:00	887:00	888:00	889:00	890:00	891:00	892:00	893:00	894:00	895:00	896:00	897:00	898:00	899:00	900:00	901:00	902:00	903:00	904:00	905:00	906:00	907:00	908:00	909:00	910:00	911:00	912:00	913:00	914:00	915:00	916:00	917:00	918:00	919:00	920:00	921:00	922:00	923:00	924:00	925:00	926:00	927:00	928:00	929:00	930:00	931:00	932:00	933:00	934:00	935:00	936:00	937:00	938:00	939:00	940:00	941:00	942:00	943:00	944:00	945:00	946:00	947:00	948:

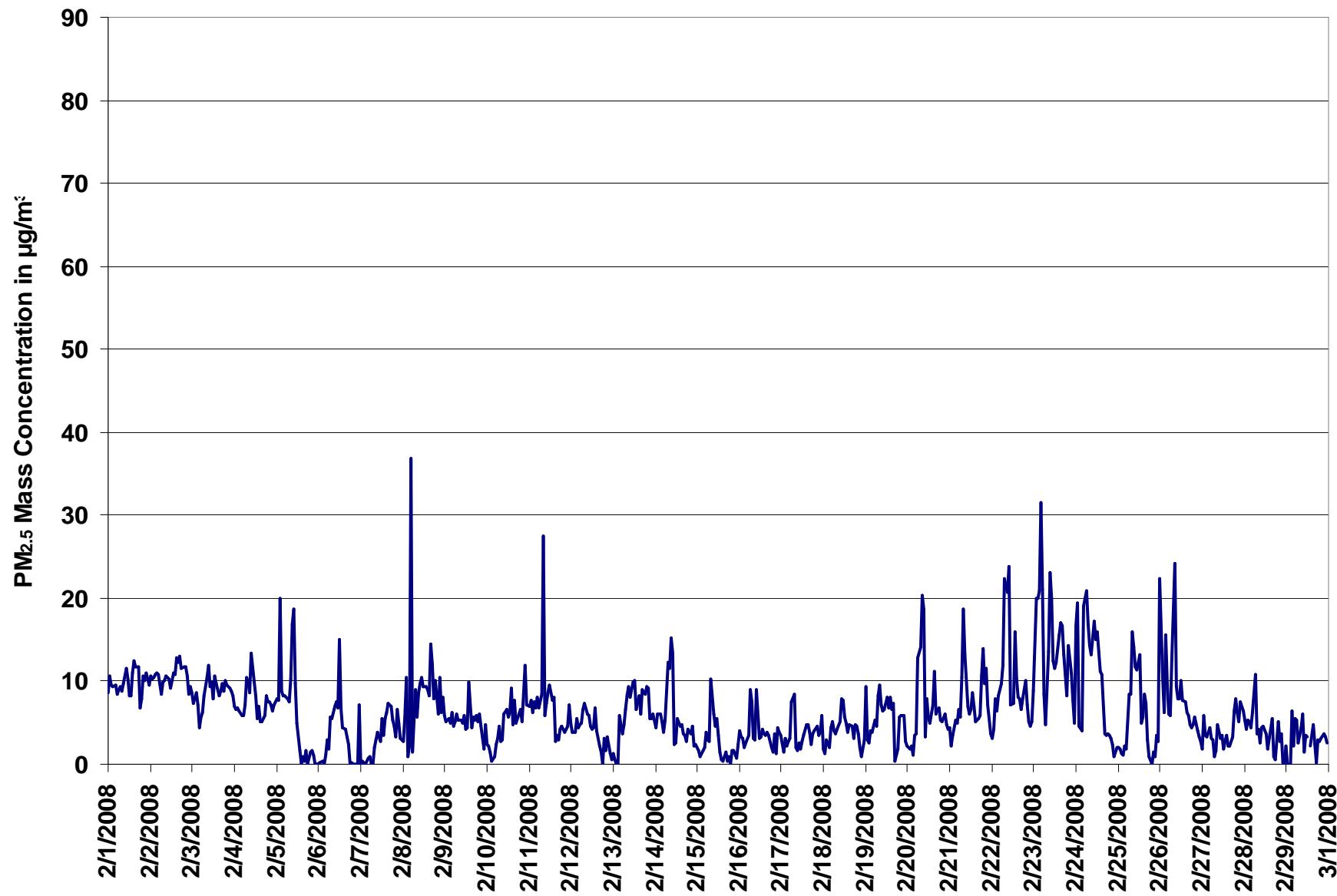
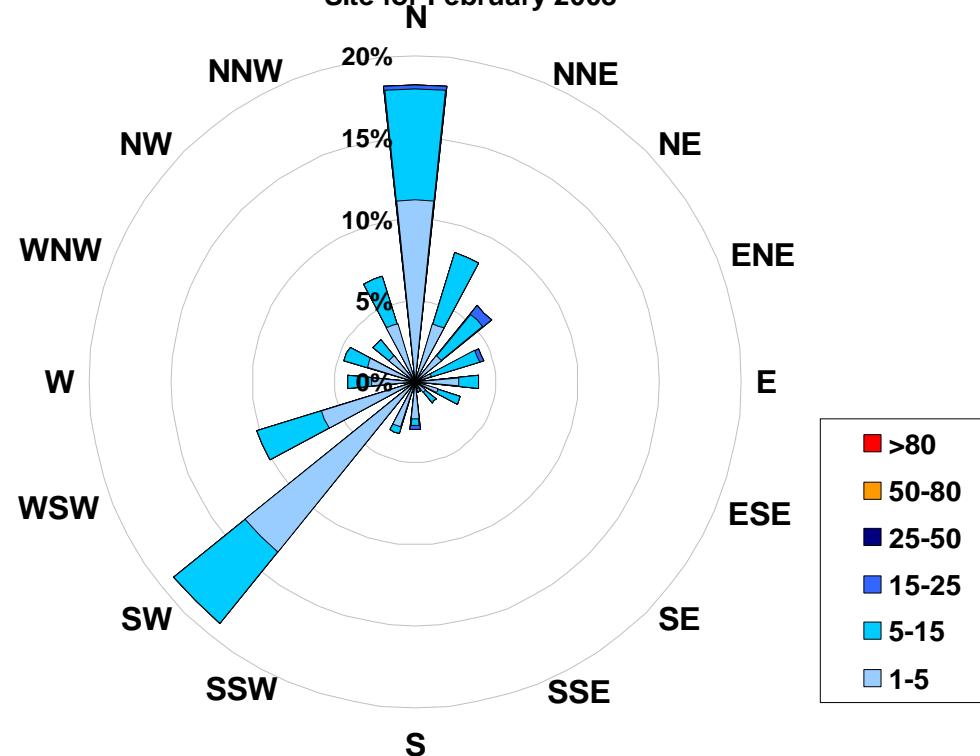


Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend



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



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³		
Range	Frequency (hrs)	
1.0 < 5	496	
5 to 15	190	
15 to 25	6	
25 to 50	0	
50 to 80	0	
> 80	0	
Total Non-Zero Values	692	



PAS - Crescent Heights Relative Humidity Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

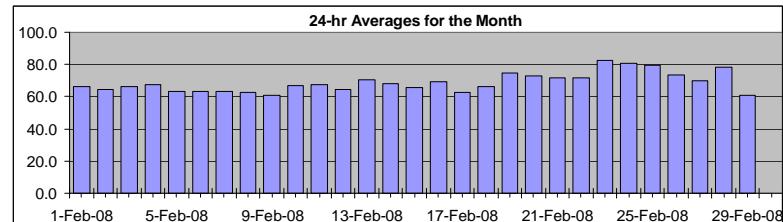
Summary

Maximum 1-hr Average:	90.3	%	28-Feb	7:00 8:00
Maximum 24-hr Value:	82.6	%	23-Feb	

AIC Time:	0 hrs	Operational Time:	696 hrs
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%
Percentile	99	95	75
	86.8	82.8	75.2
Percentile	50	25	5
	68.3	62.5	54.9
Percentile	1		
	50.3		

HOURLY AVERAGE TABLE

Relative Humidity (RH)



Status Flag Characters

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

Day Mountain Standard Time

	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	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	24:00		
1-Feb-08	68	68	68	68	68	68	68	68	67	65	63	61	59	61	63	64	67	68	67	69	68	69	69	69	69	66.3
2-Feb-08	68	67	67	67	67	68	67	66	66	64	65	66	62	57	54	53	55	64	67	68	69	67	68	68	68	64.6
3-Feb-08	68	69	69	69	68	68	69	70	69	65	61	58	57	57	58	56	63	66	68	68	71	72	72	73	73	66.1
4-Feb-08	73	72	71	71	71	71	71	70	68	66	59	56	57	58	60	63	67	69	71	72	72	71	71	71	71	67.5
5-Feb-08	70	69	69	69	69	69	69	71	73	64	53	51	53	54	54	55	59	60	60	62	61	61	60	63	63	63.0
6-Feb-08	64	64	57	63	65	65	61	53	54	55	51	45	58	73	81	77	75	74	68	64	61	62	64	63	63	63.2
7-Feb-08	60	64	64	62	60	60	61	58	56	56	55	57	53	52	54	57	58	64	69	74	77	80	81	80	80	63.0
8-Feb-08	77	75	62	61	65	63	57	56	64	63	62	66	65	66	63	59	57	58	56	57	60	61	61	61	61	62.6
9-Feb-08	64	64	64	65	65	64	63	62	60	58	58	57	56	55	55	57	58	60	60	60	60	61	61	61	61	60.6
10-Feb-08	65	65	65	66	67	69	70	70	70	68	65	63	61	57	57	62	65	68	70	72	72	74	73	73	73	66.9
11-Feb-08	73	73	72	71	71	72	71	71	68	64	60	60	60	61	63	62	62	65	67	71	73	73	66	66	66	67.3
12-Feb-08	65	66	68	67	65	63	66	68	67	66	59	55	52	51	57	64	70	74	73	71	66	64	63	64	64.4	
13-Feb-08	63	65	69	71	80	81	79	76	74	72	68	65	62	63	62	65	69	73	74	74	72	69	68	70	70.3	
14-Feb-08	71	72	72	73	74	75	75	74	73	65	59	61	57	59	62	62	63	66	69	71	71	70	72	72	68.1	
15-Feb-08	70	70	68	69	66	67	69	68	67	63	61	60	60	59	60	59	60	65	66	66	66	70	70	69	65.4	
16-Feb-08	65	69	72	69	68	69	68	65	64	66	81	85	82	79	68	65	69	70	69	68	65	64	65	65	65	69.5
17-Feb-08	65	62	63	63	63	62	62	64	64	60	55	51	49	51	50	55	64	68	69	70	72	74	76	73	62.6	
18-Feb-08	67	63	62	62	64	65	69	71	68	63	61	62	61	61	64	69	71	73	72	72	75	77	66.5	77.2		
19-Feb-08	78	78	77	77	78	80	80	80	78	77	74	71	66	63	62	61	70	74	77	75	72	78	80	74.4	80.4	
20-Feb-08	81	81	81	81	81	79	79	71	62	61	60	62	62	64	66	69	72	76	76	75	75	77	78	72.9	81.1	
21-Feb-08	78	78	78	79	78	79	80	72	65	62	60	56	52	54	58	60	67	70	78	82	84	85	83	71.5	84.6	
22-Feb-08	81	79	80	79	81	82	82	76	76	65	56	51	47	54	58	61	62	70	74	76	79	82	83	84	71.8	
23-Feb-08	85	84	83	83	83	82	81	81	79	76	72	79	79	81	82	84	85	85	86	87	88	87	85	84	82.6	
24-Feb-08	82	82	81	80	81	81	81	82	81	81	82	82	82	80	78	79	79	79	80	80	81	81	82	82	82	80.8
25-Feb-08	83	84	83	83	82	81	80	80	81	81	82	80	75	68	62	68	75	83	84	83	82	82	82	81	79.4	
26-Feb-08	82	82	83	83	83	75	75	76	74	73	69	66	66	64	63	63	67	74	75	75	76	76	76	76	73.3	
27-Feb-08	74	74	75	75	74	72	70	70	67	61	60	58	57	55	59	64	69	73	78	79	79	81	83	83	69.9	
28-Feb-08	83	83	84	83	83	83	88	90	90	89	88	82	74	67	63	60	61	67	69	76	79	80	78	79	78.3	
29-Feb-08	79	76	71	67	71	76	74	71	65	57	52	50	50	48	50	52	56	56	56	57	51	55	59	61	60.9	

Hourly Avg 72.5 72.4 71.8 71.6 72.1 72.1 71.8 71.4 70.1 67.4 64.8 63.1 61.7 61.3 61.4 62.2 64.5 68.2 70.0 71.4 71.5 71.7 72.2 72.7

Hourly Max 84.6 84.3 83.8 83.5 83.3 83.4 87.9 90.3 90.0 89.5 87.6 85.3 82.3 81.1 82.3 84.3 85.3 85.4 86.1 87.4 87.6 86.7 85.3 83.9

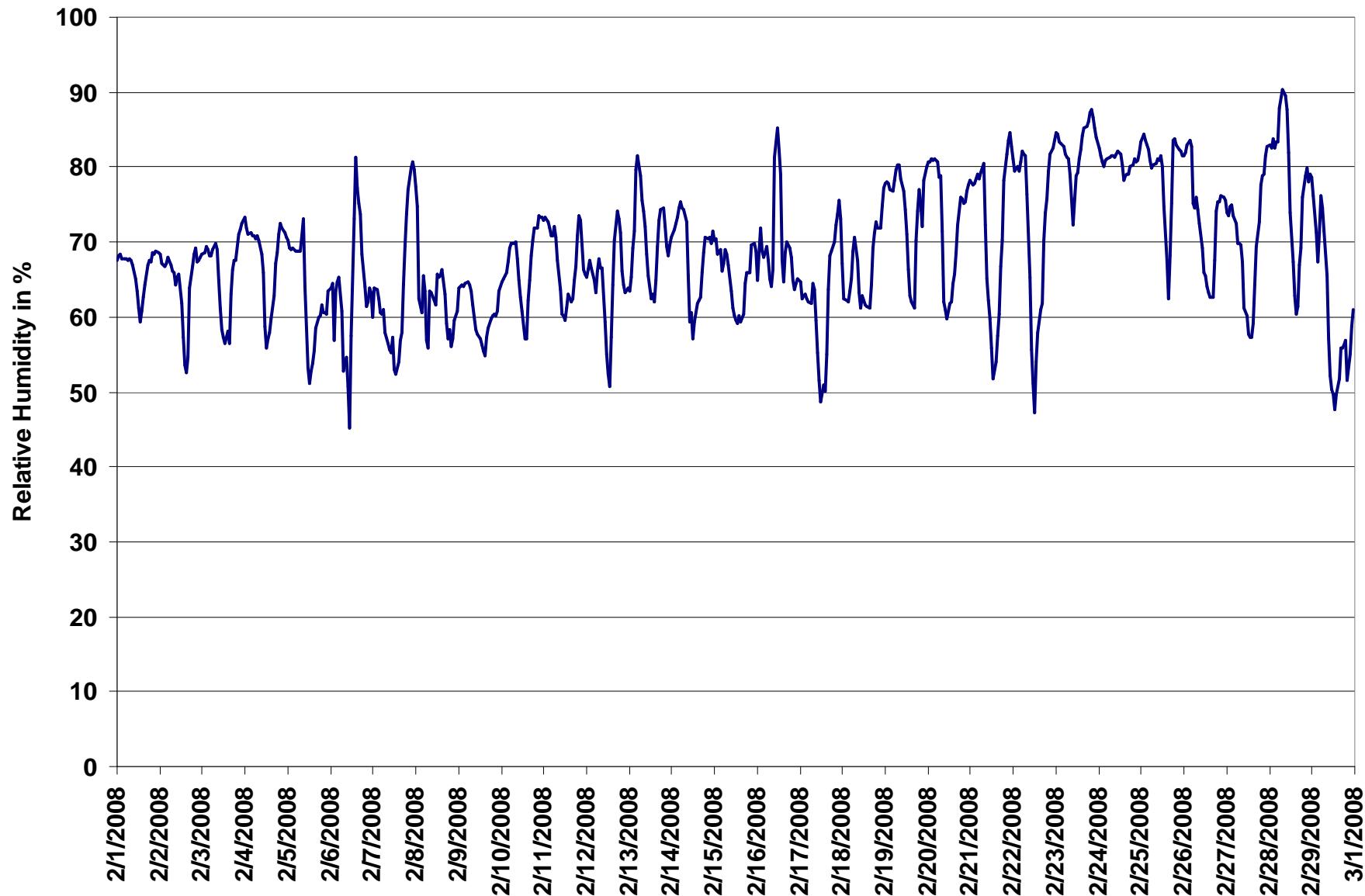


Figure 13. PAS - Crescent Heights Relative Humidity 1-hr Average Monthly Trend



PAS - Crescent Heights Temperature Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	9.6	°C	29-Feb	13:00 14:00
Maximum 24-hr Value:	3.8	°C	29-Feb	

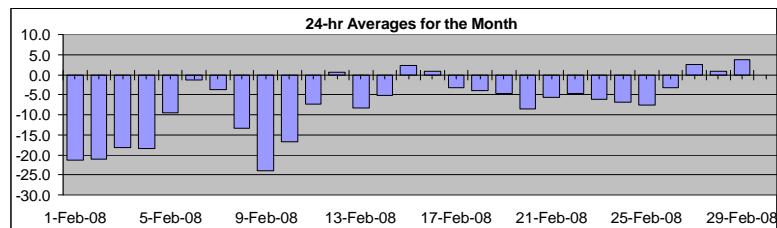
AIC Time:	0 hrs	Operational Time:	696 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	7.8	4.7	-0.5	-5.1	-13.5	-23.4	-24.9		

Day Mountain Standard Time

	Hour Start 0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	Daily Average	Daily Maximum
	Hour End 1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00			
1-Feb-08	-23	-23	-23	-23	-23	-23	-23	-23	-21	-19	-19	-18	-18	-18	-19	-19	-20	-21	-22	-23	-23	-24	-24	-24	-21.4	-17.8	
2-Feb-08	-25	-25	-25	-25	-25	-25	-25	-25	-24	-21	-19	-17	-17	-15	-15	-15	-19	-19	-20	-20	-19	-19	-19	-19	-21.1	-14.6	
3-Feb-08	-19	-19	-19	-19	-21	-22	-23	-23	-21	-19	-17	-16	-15	-15	-14	-16	-16	-16	-16	-16	-16	-16	-16	-16	-18.1	-14.3	
4-Feb-08	-16	-17	-18	-20	-20	-21	-22	-22	-21	-21	-19	-15	-14	-14	-14	-15	-16	-18	-19	-19	-20	-21	-22	-22	-18.5	-13.6	
5-Feb-08	-22	-24	-24	-23	-23	-23	-23	-23	-20	-14	-10	-3	-1	0	1	1	0	0	1	1	1	1	2	2	-9.4	1.7	
6-Feb-08	1	0	1	-2	-2	-2	-2	-1	1	1	2	3	1	0	0	0	-1	-2	-3	-4	-5	-6	-8	-8	-1.4	2.6	
7-Feb-08	-6	-6	-4	-4	-3	-2	-3	-3	-3	-1	0	0	2	1	0	-1	-1	-3	-4	-7	-9	-10	-12	-13	-3.8	1.8	
8-Feb-08	-12	-10	-5	-3	-2	0	0	0	-3	-14	-16	-16	-17	-18	-18	-19	-20	-20	-21	-21	-21	-22	-23	-13.4	0.4		
9-Feb-08	-23	-23	-23	-24	-24	-24	-24	-25	-25	-25	-25	-24	-23	-23	-23	-23	-24	-25	-25	-25	-24	-24	-23	-23	-23.9	-22.8	
10-Feb-08	-24	-24	-23	-23	-23	-23	-21	-19	-19	-18	-16	-15	-14	-14	-12	-11	-12	-13	-13	-13	-13	-14	-15	-15	-16.7	-11.1	
11-Feb-08	-14	-14	-14	-13	-13	-13	-14	-14	-15	-14	-12	-10	-5	-3	0	1	1	0	0	-2	-3	-3	-1	-1	-7.4	0.9	
12-Feb-08	-1	-2	-2	-2	-2	-1	-1	-1	-1	-1	1	3	4	5	3	2	0	-1	-1	-1	2	3	4	5	0.6	4.6	
13-Feb-08	5	5	4	2	-1	-6	-10	-13	-15	-14	-14	-13	-12	-12	-12	-12	-12	-11	-10	-9	-8	-9	-10	-11	-8.3	5.0	
14-Feb-08	-11	-11	-11	-11	-11	-10	-10	-10	-9	-5	-1	0	-1	-1	-2	-2	-2	-4	-4	-3	-2	-2	-1	-2	-5.3	-0.4	
15-Feb-08	-3	-4	-4	-4	-3	-2	-1	0	1	3	4	5	6	6	6	6	6	5	5	5	4	4	4	2.2	6.1		
16-Feb-08	5	4	3	3	3	3	2	2	2	2	0	0	1	1	2	2	1	0	-1	-3	-3	-3	-4	-4	0.7	4.5	
17-Feb-08	-3	-4	-5	-5	-5	-5	-5	-4	-3	-2	-2	0	0	1	0	-2	-3	-3	-4	-4	-4	-5	-4	-3.2	0.8		
18-Feb-08	-4	-4	-5	-6	-7	-7	-8	-8	-8	-6	-4	-3	-2	-1	-1	0	0	-1	-2	-2	-2	-2	-4	-3.9	0.1		
19-Feb-08	-7	-7	-8	-7	-8	-9	-9	-9	-7	-6	-5	-4	-2	0	2	2	2	-1	-3	-3	-4	-5	-7	-4.8	2.2		
20-Feb-08	-8	-9	-10	-10	-11	-11	-12	-13	-11	-8	-8	-6	-6	-6	-6	-5	-5	-6	-7	-8	-9	-10	-11	-8.6	-4.9		
21-Feb-08	-11	-11	-11	-11	-11	-11	-12	-12	-9	-7	-6	-4	-1	2	3	2	2	0	-2	-3	-4	-5	-6	-5.7	3.0		
22-Feb-08	-8	-9	-10	-10	-10	-11	-11	-11	-8	-5	-1	1	4	3	2	1	1	-1	-3	-3	-4	-5	-6	-4.6	3.7		
23-Feb-08	-7	-8	-9	-10	-10	-10	-10	-10	-9	-7	-5	-5	-4	-4	-3	-3	-3	-4	-4	-4	-5	-6	-7	-6.2	-2.6		
24-Feb-08	-9	-10	-11	-11	-11	-10	-10	-10	-10	-9	-7	-6	-4	-3	-2	-3	-3	-3	-4	-4	-4	-5	-6	-6.9	-2.2		
25-Feb-08	-7	-7	-9	-10	-11	-12	-12	-11	-11	-9	-9	-7	-4	-3	-1	0	-2	-4	-8	-8	-9	-9	-10	-7.6	-0.2		
26-Feb-08	-10	-10	-9	-8	-6	-5	-6	-7	-6	-5	-3	-1	0	2	3	3	3	2	0	-1	-2	-3	-3	-3.2	3.3		
27-Feb-08	-4	-4	-3	-3	-2	-1	1	1	1	2	5	6	7	8	8	8	6	5	4	3	2	2	2	2.4	8.3		
28-Feb-08	1	0	0	0	-1	-1	0	0	0	1	2	3	3	4	4	4	2	2	1	0	0	0	-1	1.0	4.1		
29-Feb-08	-2	-2	-2	-2	-3	-3	-1	0	2	5	7	8	9	10	9	8	7	7	6	6	7	7	6	3.8	9.6		

HOURLY AVERAGE TABLE

Ambient Temperature (T)



Status Flag Characters

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

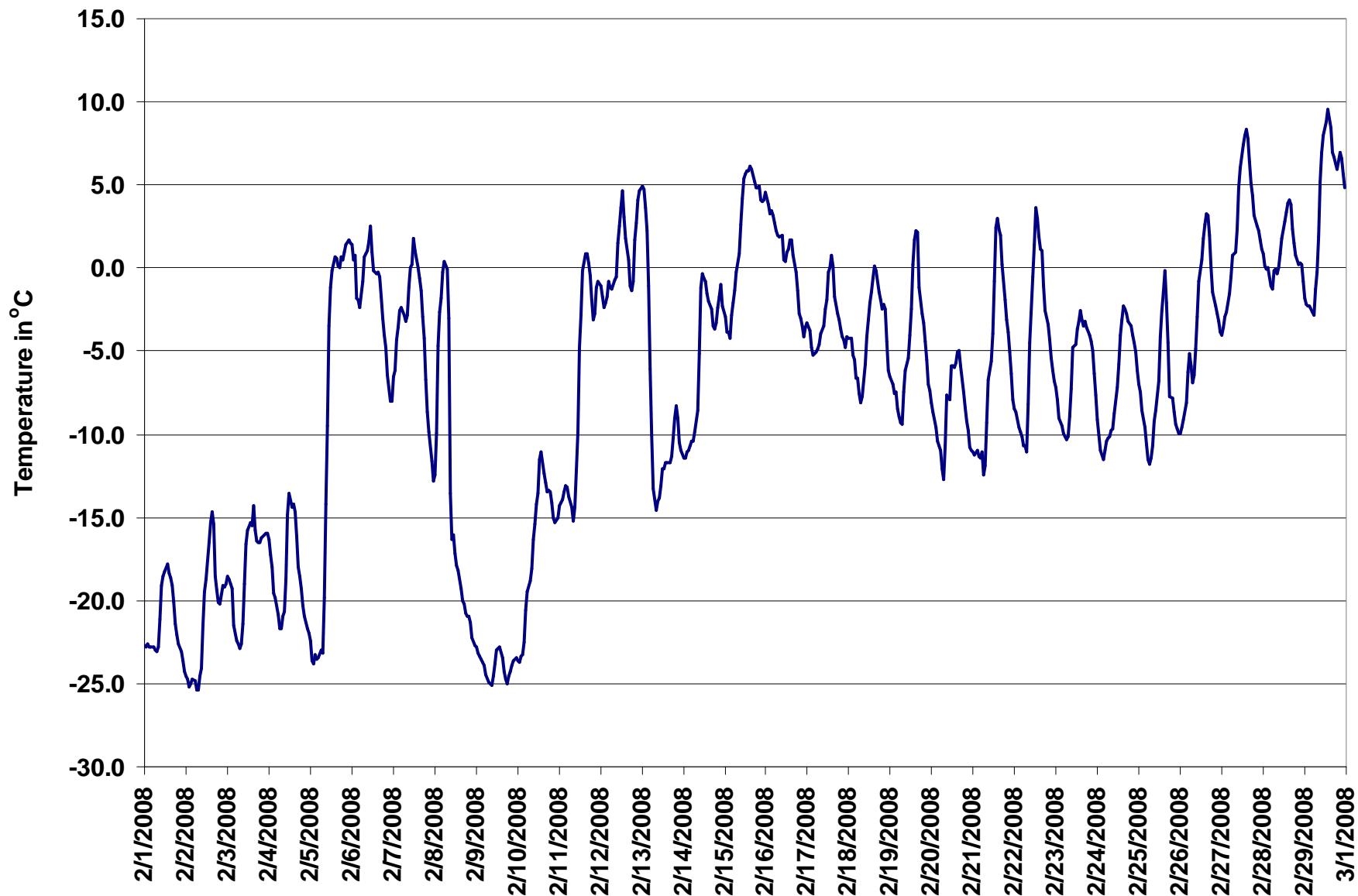


Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend



PAS - Crescent Heights Solar Radiation Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	572.5 W/m ²	29-Feb 11:00 12:00
Maximum 24-hr Value:	151.8 W/m ²	26-Feb

AIC Time:	0 hrs	Operational Time:	696 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	547.8	451.1	160.1	0.0	0.0	0.0	0.0	98.6 W/m ²	0.0 W/m ²

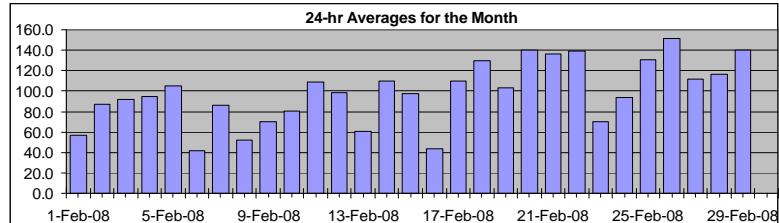
Day Mountain Standard Time

	Hour Start 1:00	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum	
Hour End 1:00	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-Feb-08	0	0	0	0	0	0	0	0	1	39	89	144	210	261	244	195	121	54	4	0	0	0	0	0	0	0	56.7	261.0
2-Feb-08	0	0	0	0	0	0	0	0	1	50	171	244	261	379	421	281	184	97	4	0	0	0	0	0	0	0	87.2	421.1
3-Feb-08	0	0	0	0	0	0	0	0	0	26	134	281	427	369	339	253	281	91	7	0	0	0	0	0	0	0	92.0	426.7
4-Feb-08	0	0	0	0	0	0	0	0	1	46	104	242	442	412	441	295	173	104	5	0	0	0	0	0	0	0	94.4	441.9
5-Feb-08	0	0	0	0	0	0	0	0	2	91	241	348	444	461	459	292	131	48	4	0	0	0	0	0	0	0	105.0	461.3
6-Feb-08	0	0	0	0	0	0	0	0	1	32	76	112	169	145	113	140	126	77	14	0	0	0	0	0	0	0	41.9	169.3
7-Feb-08	0	0	0	0	0	0	0	0	2	58	229	370	419	399	241	165	120	57	4	0	0	0	0	0	0	0	86.0	419.2
8-Feb-08	0	0	0	0	0	0	0	0	2	59	99	273	233	129	149	177	78	36	7	0	0	0	0	0	0	0	51.8	273.0
9-Feb-08	0	0	0	0	0	0	0	0	2	43	128	201	251	303	273	261	173	47	5	0	0	0	0	0	0	0	70.2	303.0
10-Feb-08	0	0	0	0	0	0	0	0	2	38	114	213	325	298	391	315	95	110	38	0	0	0	0	0	0	0	80.8	391.5
11-Feb-08	0	0	0	0	0	0	0	0	2	98	256	382	475	496	396	284	158	68	7	0	0	0	0	0	0	0	109.3	496.3
12-Feb-08	0	0	0	0	0	0	0	0	3	45	122	323	460	493	431	244	154	79	10	0	0	0	0	0	0	0	98.5	493.3
13-Feb-08	0	0	0	0	0	0	0	0	1	26	83	164	322	351	220	146	86	41	8	0	0	0	0	0	0	0	60.4	350.6
14-Feb-08	0	0	0	0	0	0	0	0	4	58	219	310	443	484	441	261	271	137	11	0	0	0	0	0	0	0	110.0	484.3
15-Feb-08	0	0	0	0	0	0	0	0	8	61	204	362	495	400	306	221	157	94	23	0	0	0	0	0	0	0	97.2	495.0
16-Feb-08	0	0	0	0	0	0	0	0	2	16	46	74	160	136	167	153	196	78	11	0	0	0	0	0	0	0	43.3	195.6
17-Feb-08	0	0	0	0	0	0	0	0	11	54	148	274	439	544	513	314	235	94	15	0	0	0	0	0	0	0	110.1	543.7
18-Feb-08	0	0	0	0	0	0	0	0	19	146	296	406	410	539	509	304	326	154	14	0	0	0	0	0	0	0	130.1	539.3
19-Feb-08	0	0	0	0	0	0	0	0	9	85	190	264	334	386	410	328	278	162	37	0	0	0	0	0	0	0	103.5	410.0
20-Feb-08	0	0	0	0	0	0	0	0	14	125	279	429	522	548	536	350	339	186	28	0	0	0	0	0	0	0	139.9	547.6
21-Feb-08	0	0	0	0	0	0	0	0	18	190	307	314	418	543	569	386	319	171	34	0	0	0	0	0	0	0	136.2	568.9
22-Feb-08	0	0	0	0	0	0	0	0	20	159	317	460	536	520	497	364	267	184	23	0	0	0	0	0	0	0	139.4	535.8
23-Feb-08	0	0	0	0	0	0	0	0	12	137	213	383	303	242	174	93	61	43	15	0	0	0	0	0	0	0	69.9	383.0
24-Feb-08	0	0	0	0	0	0	0	0	8	48	99	203	399	500	390	315	183	77	18	0	0	0	0	0	0	0	93.4	499.9
25-Feb-08	0	0	0	0	0	0	0	0	13	69	147	255	419	570	568	450	374	216	53	1	0	0	0	0	0	0	130.6	570.4
26-Feb-08	0	0	0	0	0	0	0	0	33	173	321	464	564	540	546	412	363	181	45	0	0	0	0	0	0	0	151.8	564.1
27-Feb-08	0	0	0	0	0	0	0	0	13	70	218	400	359	455	472	363	204	108	21	1	0	0	0	0	0	0	112.0	472.3
28-Feb-08	0	0	0	0	0	0	0	0	6	40	95	251	423	544	443	428	342	186	39	1	0	0	0	0	0	0	116.6	543.6
29-Feb-08	0	0	0	0	0	0	0	0	40	145	335	487	573	551	562	333	210	97	32	2	0	0	0	0	0	0	140.4	572.5

Hourly Avg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	76.8	182.1	297.6	387.4	413.8	387.0	280.1	207.1	106.2	18.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hourly Max	0.0	0.0	0.0	0.0	0.0	0.3	0.3	40.3	190.1	335.2	487.3	572.5	570.4	568.9	449.7	374.1	216.2	52.7	1.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0

HOURLY AVERAGE TABLE

Solar Radiation (SR)



Status Flag Characters

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

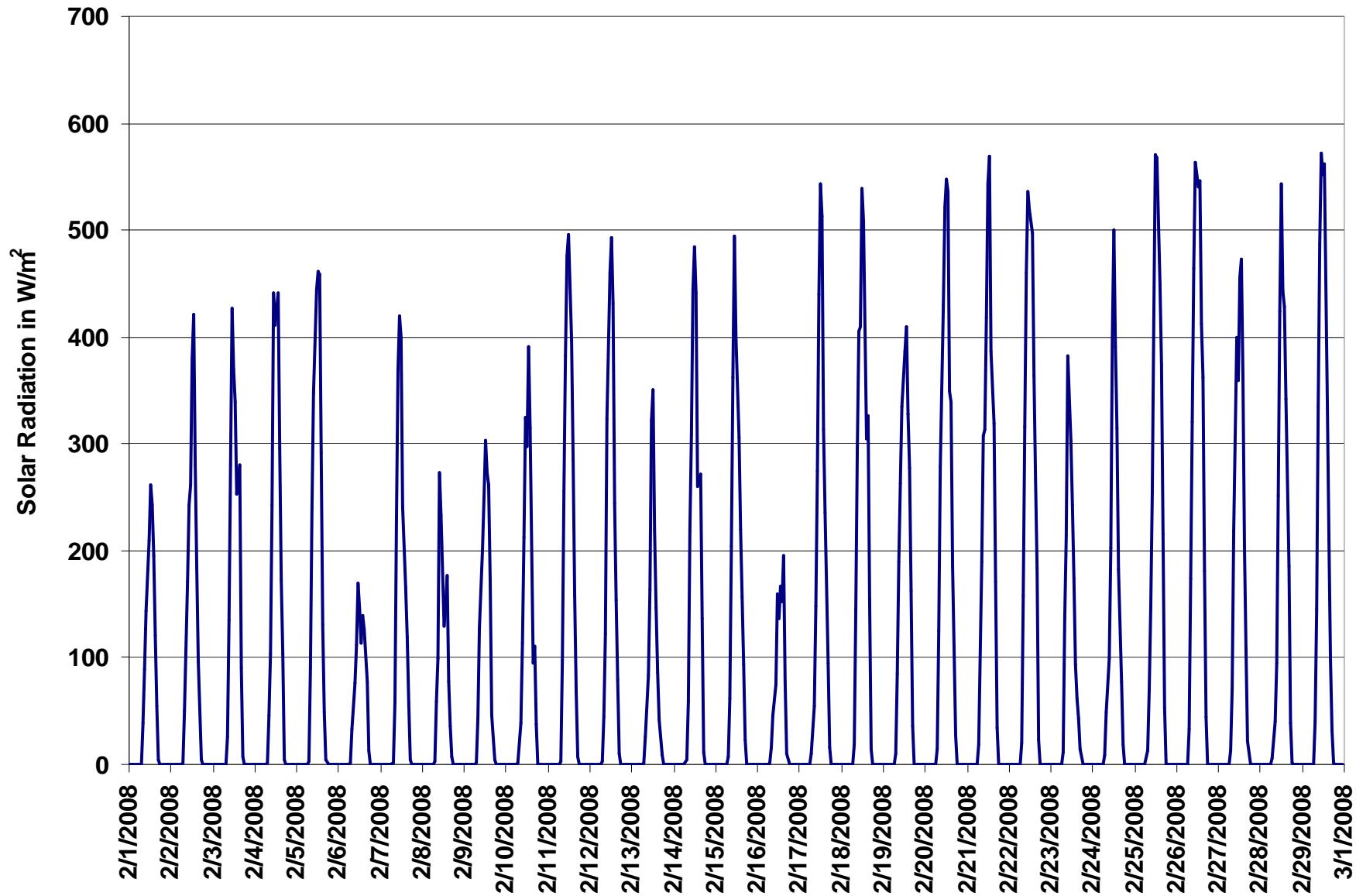


Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend



PAS - Crescent Heights Scalar Wind Speed Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	39.5	km/hr	5-Feb	19:00 20:00
Maximum 24-hr Value:	20.8	km/hr	15-Feb	

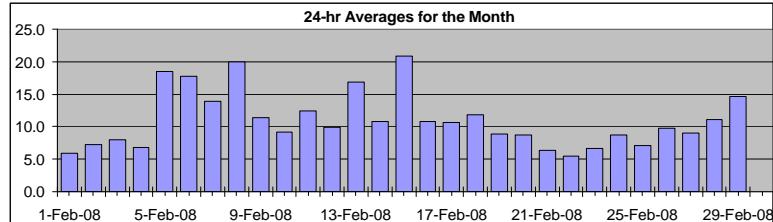
Calm Time:	0 hrs	0% calms	Operational Time:	694 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.7%				
Percentile	99	95	75	50	25	5	1	AverageS
	32.9	24.7	14.0	9.0	6.3	4.1	3.7	11.0 km/hr

Day Mountain Standard Time

	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	6:00 7:00	7:00 8:00	8:00	9:00	9:00 10:00	10:00	11:00	12:00	13:00	14:00	15:00	15:00 16:00	16:00	17:00	17:00 18:00	18:00	19:00	19:00 20:00	20:00	21:00	21:00 22:00	22:00	23:00	23:00 0:00	24-hr Scalar Average	Daily Max
	Hour End	1:00	2:00	3:00	4:00	5:00	6:00	6:00	6:00 7:00	7:00 8:00	8:00	9:00	9:00 10:00	10:00	11:00	12:00	13:00	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-Feb-08	10	8	6	5	4	5	4	5	5	7	4	4	5	6	6	6	7	6	6	6	8	7	6	6	7	6	6	5	5	6.0	9.9			
2-Feb-08	5	6	5	4	4	10	8	5	4	7	7	11	13	10	10	7	5	6	8	7	6	6	9	10	11	7.2	12.5							
3-Feb-08	12	12	12	11	12	8	6	4	4	7	7	8	8	8	9	8	8	5	5	5	5	6	8	8	9	7.9	12.1							
4-Feb-08	9	10	9	8	7	8	4	4	4	7	5	5	6	9	10	12	11	9	7	4	4	4	5	4	4	6.8	11.9							
5-Feb-08	6	4	6	6	5	6	8	8	7	5	6	17	24	26	25	25	30	27	34	40	34	33	31	33	18.6	39.5								
6-Feb-08	37	34	36	26	23	17	21	17	15	17	16	13	12	7	10	12	8	8	11	13	15	15	19	18	21	17.7	37.4							
7-Feb-08	14	9	22	22	27	23	25	21	22	22	15	15	10	10	9	9	8	9	6	10	5	6	5	7	13.8	26.8								
8-Feb-08	7	10	17	14	18	19	24	19	13	31	25	26	26	24	23	25	22	22	15	17	18	21	17	20.0	30.8									
9-Feb-08	13	15	13	13	14	15	17	18	15	15	12	10	11	12	12	13	10	7	4	5	7	7	7	6	11.3	18.3								
10-Feb-08	14	14	14	13	10	8	7	6	6	5	10	11	11	7	7	6	8	9	7	11	12	7	9	8	9.2	14.4								
11-Feb-08	7	4	5	5	7	11	17	17	14	18	22	22	17	10	12	18	15	16	14	12	9	7	8	10	12.4	21.8								
12-Feb-08	9	7	8	9	5	5	6	6	5	9	7	7	9	8	11	12	11	10	8	5	9	23	24	27	10.0	27.4								
13-Feb-08	23	29	27	20	19	21	24	26	26	22	21	18	15	9	6	7	13	13	9	6	10	16	15	11	16.9	28.9								
14-Feb-08	6	4	4	7	8	7	9	6	6	5	9	17	18	14	15	16	14	12	9	11	12	11	15	21	10.8	21.0								
15-Feb-08	17	16	17	13	19	18	20	20	19	22	24	23	24	21	21	18	21	28	27	23	20	29	23	21	20.8	28.6								
16-Feb-08	14	10	5	8	6	7	7	6	7	14	19	13	9	12	14	13	11	12	9	11	11	14	13	16	10.8	18.6								
17-Feb-08	16	16	17	16	15	12	8	8	9	10	10	13	12	12	11	10	10	8	8	7	9	9	6	6	10.7	17.0								
18-Feb-08	8	9	10	7	7	6	7	8	8	11	14	15	16	17	19	16	14	15	13	13	15	15	13	8	11.9	19.2								
19-Feb-08	9	6	6	7	6	6	4	7	10	11	15	14	14	14	10	12	13	9	6	6	5	9	9	9	8.8	14.5								
20-Feb-08	5	6	4	4	4	5	6	4	4	6	10	10	19	19	18	15	14	8	9	12	8	7	7	6	8.7	19.1								
21-Feb-08	8	7	8	7	6	8	7	4	5	8	9	10	8	6	7	8	6	4	4	4	4	4	5	5	6.3	10.4								
22-Feb-08	6	7	4	5	3	3	4	3	4	4	4	5	4	8	9	9	7	8	7	6	6	5	4	3	5.5	9.4								
23-Feb-08	4	4	4	4	4	5	6	7	7	6	6	9	8	7	6	9	8	6	7	6	8	10	8	9	6.6	9.8								
24-Feb-08	8	7	8	7	4	4	3	4	4	6	6	6	11	14	14	11	14	12	11	10	9	12	13	11	8.7	14.5								
25-Feb-08	7	6	7	7	9	8	3	4	5	5	9	8	7	8	7	7	10	11	10	11	11	8	5	4	7.2	11.1								
26-Feb-08	4	4	5	8	10	12	10	8	10	15	14	13	15	14	15	11	10	10	9	9	9	7	7	8	9.8	15.2								
27-Feb-08	8	6	7	9	14	11	11	12	11	13	9	9	10	14	13	9	9	7	6	5	7	4	7	8	9.1	14.1								
28-Feb-08	7	6	7	7	9	7	16	21	15	9	9	14	16	16	18	16	15	11	9	8	8	8	6	5	11.0	21.2								
29-Feb-08	5	6	5	5	4	10	4	8	6	13	25	28	25	M	M	14	21	22	16	15	19	26	27	17	14.6	28.4								

HOURLY AVERAGE TABLE

Wind Speed (WSs)



Status Flag Characters

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



PAS - Crescent Heights Vector Wind Speed Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	39.4	km/hr	5-Feb	19:00 20:00
Maximum 24-hr Value:	20.5	km/hr	15-Feb	

Calm Time:	0 hrs	0% calms	Operational Time:	694 hrs					
Calibration Time:	0 hrs		AMD Operational Uptime:	99.7%					
Percentile	99	95	75	50	25	5	1	Average V	18.2 km/hr
	32.7	24.6	13.7	8.6	5.5	2.7	1.1		

Day Mountain Standard Time

	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 24:00 25:00 26:00 27:00 28:00 29:00 30:00	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 25:00 26:00 27:00 28:00 29:00 30:00	24-hr Vector Average	Daily Max																				
1-Feb-08	10 1:00 2:00	7 6 5 5 4 4 4 5 7 4 3 5 6 6 7 6 6 6 8 7 6 6 5 5 5 5 5 5	5.2	9.8																					
2-Feb-08	4 1:00 2:00	6 5 5 4 4 10 8 5 4 7 6 10 12 9 6 3 6 8 7 5 6 9 10 11 10	2.1	12.3																					
3-Feb-08	12 1:00 2:00	12 11 11 12 8 5 4 4 7 7 8 7 6 8 7 7 4 4 5 5 4 4 8 8 9	4.6	12.0																					
4-Feb-08	9 1:00 2:00	10 9 8 7 8 4 3 3 7 4 4 4 6 9 10 12 11 9 7 4 4 5 4 4	5.2	11.8																					
5-Feb-08	5 1:00 2:00	4 5 6 5 5 7 8 6 4 4 17 24 26 25 25 30 27 34 39 34 33 31 33	15.7	39.4																					
6-Feb-08	37 1:00 2:00	34 36 26 23 17 21 17 15 17 15 11 11 2 9 11 8 8 10 12 14 19 18 20	13.8	37.3																					
7-Feb-08	12 1:00 2:00	7 21 22 27 22 25 21 22 22 15 14 8 9 9 8 8 9 6 10 5 4 3 6	9.8	26.7																					
8-Feb-08	6 1:00 2:00	9 16 13 17 19 24 18 12 31 25 26 25 26 24 23 25 22 22 15 17 18 21 17	14.4	30.7																					
9-Feb-08	13 1:00 2:00	15 12 13 13 14 14 16 18 15 14 12 10 11 12 11 13 10 7 4 3 7 6 6	8.6	18.3																					
10-Feb-08	14 1:00 2:00	14 12 10 8 7 5 6 5 10 11 11 7 7 5 8 9 6 11 12 5 9 7	6.7	14.3																					
11-Feb-08	7 1:00 2:00	4 5 3 7 10 16 16 13 17 22 22 17 9 9 18 15 16 13 12 9 7 7 10	11.0	21.7																					
12-Feb-08	8 1:00 2:00	5 8 7 1 3 5 2 0 8 6 6 8 6 11 12 10 10 8 4 7 23 24 27	5.5	27.3																					
13-Feb-08	23 1:00 2:00	29 27 19 18 20 24 25 26 22 21 18 14 9 6 5 12 13 9 5 9 16 14 11	8.8	28.7																					
14-Feb-08	6 1:00 2:00	1 1 5 7 6 9 4 5 2 8 17 18 14 15 16 14 12 9 11 12 10 15 21	8.9	20.9																					
15-Feb-08	17 1:00 2:00	16 16 13 19 18 20 20 19 22 24 23 24 21 17 20 28 26 23 20 28 23 21 15	20.5	28.3																					
16-Feb-08	14 1:00 2:00	9 4 8 5 7 6 5 6 14 18 13 7 12 14 13 10 11 9 10 11 14 13 16	9.8	18.4																					
17-Feb-08	16 1:00 2:00	16 17 16 14 12 8 7 9 10 10 13 11 11 10 9 10 8 7 7 9 9 6 5	9.2	16.8																					
18-Feb-08	8 1:00 2:00	8 10 7 7 5 4 8 8 11 14 15 16 17 19 16 14 15 13 13 15 14 13 8	10.1	19.1																					
19-Feb-08	9 1:00 2:00	4 3 6 3 6 6 4 7 9 11 14 14 13 13 10 12 12 9 4 5 5 9 8	5.4	14.3																					
20-Feb-08	4 1:00 2:00	6 4 3 3 3 4 2 2 1 9 9 9 19 18 17 15 14 7 8 11 8 7 6 4	6.0	18.9																					
21-Feb-08	7 1:00 2:00	7 7 7 6 8 7 3 2 7 8 10 8 4 6 8 5 3 4 4 4 3 1	2.7	10.2																					
22-Feb-08	4 1:00 2:00	7 2 2 3 3 3 3 4 1 1 1 1 7 9 9 7 8 7 6 6 5 4 3	2.8	9.3																					
23-Feb-08	3 1:00 2:00	2 1 3 3 3 5 7 6 5 5 8 7 5 5 8 7 5 6 5 7 10 8 9	4.8	9.6																					
24-Feb-08	8 1:00 2:00	7 8 6 3 2 3 4 4 6 5 6 10 13 14 10 14 12 11 10 9 12 13 10	5.9	14.1																					
25-Feb-08	6 1:00 2:00	5 7 7 9 8 3 2 4 3 8 8 5 8 5 5 10 11 10 11 8 4 2 5	2.8	10.9																					
26-Feb-08	4 1:00 2:00	3 2 6 9 12 10 8 10 15 14 13 15 14 15 10 9 10 8 8 7 7 7 7	8.8	15.0																					
27-Feb-08	8 1:00 2:00	2 5 8 14 9 10 12 11 12 9 9 10 14 12 8 9 1 3 5 6 3 5 6	6.4	13.6																					
28-Feb-08	4 1:00 2:00	4 6 4 9 7 16 21 15 9 9 14 16 18 16 14 11 9 7 7 8 5 3	8.2	21.1																					
29-Feb-08	3 1:00 2:00	4 4 3 1 9 1 6 3 12 25 28 25 M M 14 21 22 15 13 18 25 27 16	12.5	28.2																					
1-hr Vector	3.4	2.8	3.4	3.4	3.3	4.2	4.0	4.0	2.9	4.6	5.2	6.3	6.0	5.3	4.9	5.0	5.1	4.4	4.3	4.7	4.8	4.5	4.6	4.2	
Hourly Max	37.3	33.7	35.7	26.0	26.7	22.5	25.3	25.5	26.3	30.7	25.2	28.2	25.4	26.3	24.8	24.6	29.9	27.1	34.4	39.4	33.8	32.7	31.0	33.2	



PAS - Crescent Heights Wind Direction Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

HOURLY AVERAGE TABLE

Wind Direction (WD)

Summary

Wind Data Summary							

Calm Time:	0 hrs	0% calms	Operational Time:	694 hrs
Calibration Time:	2 hrs		AMD Operational Uptime:	100.0%
Percentile	99	95	75	50
	358.5	354.3	275.7	227.0
	25	5	1	Average
	103.9	7.7	0.8	259 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	24:00		
1-Feb-08	324	311	292	339	357	328	356	37	38	53	52	21	16	358	357	357	358	3	358	8	2	5	15	59		
2-Feb-08	99	97	85	66	25	1	360	348	356	335	244	226	222	241	236	216	34	43	69	54	62	64	40	33		
3-Feb-08	32	19	33	24	358	350	352	353	353	251	264	251	321	267	242	257	255	288	317	333	349	22	32	36		
4-Feb-08	11	17	5	356	355	354	27	69	61	11	36	99	91	85	101	93	93	72	65	31	22	1	7	8		
5-Feb-08	18	73	103	102	102	113	117	129	125	142	166	206	204	211	210	203	207	210	205	209	209	212	211	216		
6-Feb-08	221	221	222	228	227	242	261	273	272	281	297	339	43	141	155	154	182	228	242	243	232	227	237	237		
7-Feb-08	249	269	215	206	208	200	208	204	206	217	239	239	276	314	324	333	319	311	329	338	360	281	223	193		
8-Feb-08	177	220	241	235	233	256	269	275	355	348	348	351	350	346	348	349	344	348	346	350	357	351	351	356		
9-Feb-08	359	357	6	354	2	356	355	350	1	1	357	341	330	329	335	350	6	22	45	112	187	182	186	113		
10-Feb-08	104	110	109	98	64	29	3	358	354	41	12	14	20	30	53	44	8	0	11	356	359	15	326	353		
11-Feb-08	353	7	344	293	220	250	228	227	245	237	236	230	230	268	230	217	233	238	252	249	250	243	264	276		
12-Feb-08	284	209	234	226	171	356	9	253	179	223	232	227	181	145	112	114	100	103	82	9	209	195	202	209		
13-Feb-08	200	213	217	243	298	316	340	339	353	5	11	3	2	1	354	259	225	232	248	284	325	345	347	339		
14-Feb-08	355	16	340	201	202	183	214	126	104	188	224	229	235	236	234	236	237	241	233	232	242	229	226	235		
15-Feb-08	241	245	235	243	223	240	232	236	232	226	217	222	227	235	240	222	218	214	228	236	226	216	211	229		
16-Feb-08	276	291	341	347	338	296	293	315	311	333	355	3	291	264	292	306	302	295	307	320	305	311	302	293		
17-Feb-08	299	304	303	303	299	299	298	287	272	275	274	265	257	242	254	230	219	228	255	242	234	222	227	337		
18-Feb-08	324	323	329	332	310	302	227	246	233	238	237	236	232	233	235	227	234	236	238	241	235	230	222	213		
19-Feb-08	215	166	165	253	140	93	87	44	72	65	75	82	86	94	90	78	78	63	81	157	314	346	354	342		
20-Feb-08	342	339	348	335	351	305	279	74	53	201	232	232	223	228	230	224	221	255	245	230	215	182	204	138		
21-Feb-08	179	207	179	111	90	106	120	27	112	205	217	230	219	226	247	230	276	22	61	68	66	71	194	228		
22-Feb-08	219	225	84	138	45	36	21	45	60	187	182	286	313	21	7	1	1	2	359	7	3	3	6	25		
23-Feb-08	343	27	29	0	40	215	186	224	254	288	284	253	267	274	277	254	300	273	269	241	224	228	243	232		
24-Feb-08	234	224	218	215	0	359	34	18	20	15	19	23	28	46	44	55	51	53	19	23	43	58	53	24		
25-Feb-08	38	27	4	357	360	354	10	347	244	258	221	220	223	216	209	214	233	229	237	218	214	182	100	92		
26-Feb-08	72	17	181	221	251	253	265	257	238	232	232	217	225	226	231	224	229	228	227	233	202	205	204	200		
27-Feb-08	190	184	239	238	225	240	237	226	248	227	238	242	234	230	231	235	243	318	276	6	358	42	21	2		
28-Feb-08	305	343	209	315	350	354	0	358	352	320	303	280	280	276	280	275	271	262	259	240	214	239	259	283		
29-Feb-08	168	124	86	39	318	202	84	201	196	198	206	211	218	C	C	244	222	220	227	242	224	218	217	243		

Hourly Avg 261 261 242 262 272 283 283 286 293 273 265 255 253 256 256 243 246 257 261 259 249 237 243 256



PAS - Crescent Heights Standard Deviation of Wind Direction Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

HOURLY AVERAGE TABLE

Wind Direction (WD)

Summary

|--|--|--|--|--|--|--|--|

Calm Time:	0 hrs	0% calms	Operational Time:	694 hrs			
Calibration Time:	2 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	90.0	64.9	28.9	14.6	8.3	5.3	4.4

Determined by the Yamartino 15-min interval calculation

Status Flag Characters

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

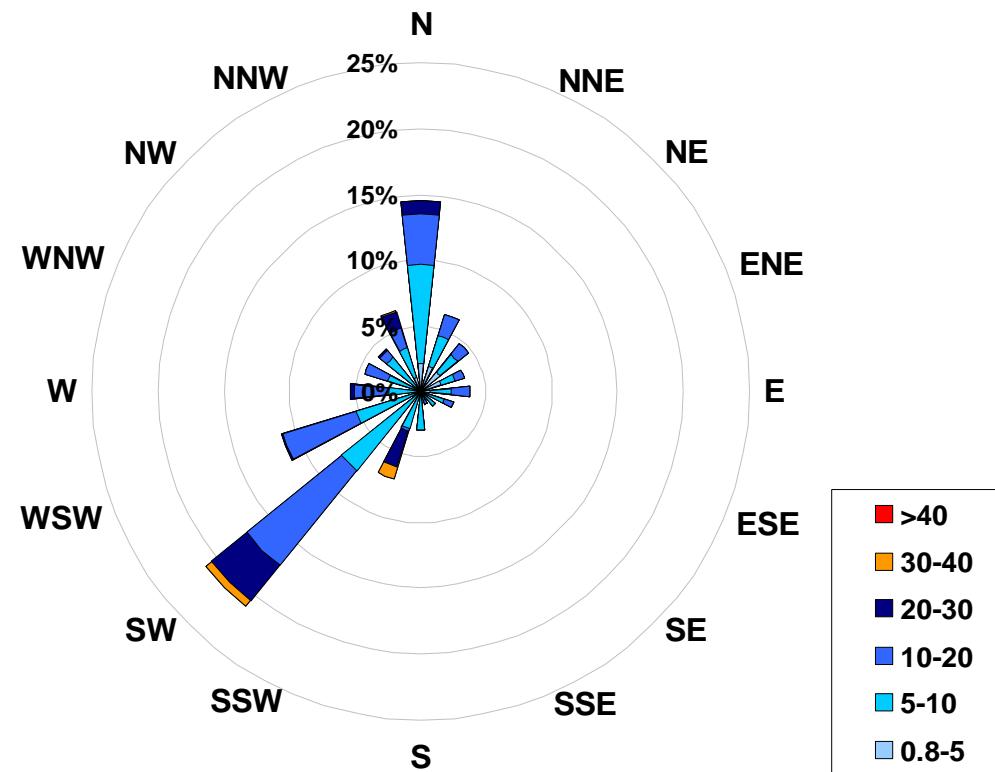
Day Mountain Standard Time

	Hour Start 1:00	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-Feb-08	10	19	29	19	14	39	32	10	16	26	39	20	19	19	17	12	7	7	6	8	11	7	8	16	39.4
2-Feb-08	37	11	16	25	23	5	11	27	18	11	40	18	11	31	53	91	14	7	9	19	16	15	9	9	91.1
3-Feb-08	7	8	14	9	9	10	11	17	16	27	30	26	38	42	29	33	24	45	32	18	42	7	10	9	44.5
4-Feb-08	9	7	6	6	7	5	31	20	30	8	22	29	26	11	12	10	8	10	8	15	10	7	13	16	31.1
5-Feb-08	13	22	17	12	16	15	19	9	15	50	59	8	6	7	7	7	5	7	5	5	5	5	5	5	58.5
6-Feb-08	4	4	4	6	7	14	6	9	6	6	14	34	16	76	31	16	22	21	20	12	11	6	5	6	76.3
7-Feb-08	35	45	8	5	4	6	4	5	6	6	21	10	38	14	15	20	25	10	16	15	30	61	72	46	72.5
8-Feb-08	41	35	23	17	7	18	5	19	22	6	6	5	5	5	5	8	5	7	9	10	8	7	6	6	41.4
9-Feb-08	7	5	6	6	6	7	5	5	6	8	10	12	15	11	14	12	9	16	13	56	27	40	38	29	55.9
10-Feb-08	6	6	6	11	19	18	18	16	11	14	11	8	12	19	18	35	26	15	14	8	8	48	8	23	48.1
11-Feb-08	15	24	17	49	31	20	15	19	14	7	5	8	14	24	56	7	11	10	11	7	8	31	34	8	55.8
12-Feb-08	16	64	31	58	84	54	19	90	91	12	48	51	35	42	9	8	13	8	19	45	60	8	6	5	91.1
13-Feb-08	6	5	6	15	9	9	6	6	6	5	8	8	9	15	21	47	12	9	28	32	21	9	7	9	46.6
14-Feb-08	21	74	76	54	28	31	25	52	28	79	56	9	8	14	10	9	8	9	15	13	16	25	5	5	78.6
15-Feb-08	8	10	8	14	10	11	8	8	9	7	5	7	8	8	14	17	6	7	6	9	8	6	4	22	22.0
16-Feb-08	25	23	29	9	25	21	22	50	51	13	7	8	39	16	13	12	13	11	12	11	11	10	13	7	51.4
17-Feb-08	8	9	7	8	9	11	19	24	12	12	16	15	19	23	22	23	10	22	22	8	10	36	24	36.1	
18-Feb-08	19	24	20	19	18	37	74	23	9	9	6	8	9	9	8	9	10	6	7	6	12	6	8	74.0	
19-Feb-08	10	54	71	49	56	16	15	19	17	11	9	9	14	12	11	17	20	8	8	61	40	23	5	13	71.1
20-Feb-08	34	16	28	40	34	51	42	57	71	84	23	30	8	12	9	12	10	30	19	12	15	23	42	41	83.9
21-Feb-08	32	14	26	14	16	5	10	39	72	32	15	13	30	74	38	26	37	48	15	23	18	16	69	95	94.6
22-Feb-08	60	39	56	66	5	20	44	9	19	91	92	77	82	37	10	7	6	4	5	6	5	7	9	7	91.7
23-Feb-08	48	65	79	36	33	81	52	38	43	36	36	23	27	57	40	29	23	35	37	37	21	11	20	8	80.6
24-Feb-08	11	13	6	60	42	59	15	10	13	13	16	11	12	16	13	18	12	6	10	6	10	5	10	10	59.9
25-Feb-08	9	26	4	5	5	7	51	52	60	16	19	69	34	60	72	19	11	13	8	11	53	60	18	71.8	
26-Feb-08	24	49	85	53	26	9	11	16	7	6	9	12	11	12	12	26	44	11	36	24	18	8	30	26	84.7
27-Feb-08	26	92	63	39	16	30	22	13	20	10	19	18	15	10	10	37	16	76	74	32	50	26	45	44	91.9
28-Feb-08	65	49	57	57	19	17	6	5	10	17	15	9	10	9	8	8	9	10	16	45	44	29	39	48	64.9
29-Feb-08	74	40	24	50	79	31	84	62	90	30	8	7	7	C	C	17	7	7	12	35	14	13	6	20	90.0

Hourly Max 74 92 85 66 84 81 84 90 91 91 92 77 82 76 60 91 44 76 74 61 60 61 72 95



**1-hr Average Wind Rose (in km/hr) Located at the Crescent Heights Site
for February 2008**



Calms:	0%	Frequency Distribution of Wind in km/hr		
		Range		
		0.8	< 5	78
		5	to 10	320
		10	to 20	221
		20	to 30	64
		30	to 40	11
		> 40		0
		Total Non-Zero Values		
				694



PAS – Portable-Brooks

Monthly Summary Tables, Graphs and Roses



PAS – Brooks Sulphur Dioxide Monthly Summary

Station: Portable-Brooks
Station Owner: PAS

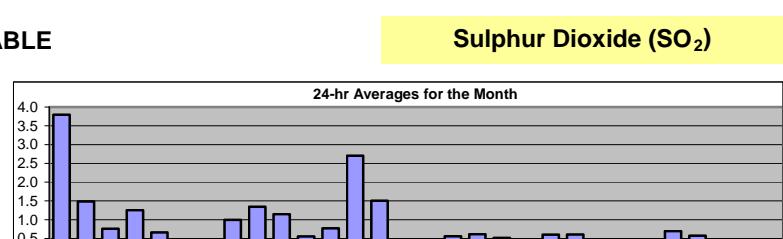
Monitoring Dates: February 1, 2008 to March 1, 2008

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:	8.2 ppb	1-Feb	11:00 12:00
Maximum 24-hr Average:	3.8 ppb	1-Feb	

AIC Time:	31 hrs	Operational Time:	663 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	4.9	3.0	1.0	0.5	0.3	0.1	0.0	0.8 ppb	0.5 ppb

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start 1:00	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-Feb-08	3	4	4	5	4	3	3	2	2	3	6	8	6	5	A	4	4	4	2	2	3	3	3	4	3.8	8.2
2-Feb-08	2	2	2	1	1	1	1	1	1	1	2	2	2	A	2	2	3	2	2	2	1	1	1	1	1.5	2.5
3-Feb-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	0.8	1.3
4-Feb-08	1	1	1	1	1	1	1	1	3	1	1	1	1	A	1	2	3	3	1	1	1	2	1	1	1.3	3.2
5-Feb-08	1	1	0	0	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	0	0	0.7	1.1
6-Feb-08	0	0	0	0	0	0	0	0	0	A	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0.4	1.3
7-Feb-08	0	0	0	0	0	1	0	0	A	0	1	0	0	0	0	1	1	0	1	1	1	1	1	1	0.4	1.2
8-Feb-08	1	0	0	1	0	0	0	A	4	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1.0	3.5
9-Feb-08	0	1	1	1	3	4	A	2	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	1.3	3.6
10-Feb-08	2	2	2	2	3	A	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1.1	2.6
11-Feb-08	0	0	1	0	A	0	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1	0.6	1.2
12-Feb-08	1	1	1	A	1	1	1	0	0	1	1	1	1	1	1	1	1	2	1	1	0	0	0	0	0.8	1.7
13-Feb-08	0	0	A	0	1	1	1	4	4	3	6	5	4	3	4	3	3	2	1	3	3	3	5	5	2.7	5.7
14-Feb-08	5	A	3	3	3	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	1.5	5.4
15-Feb-08	A	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0.3	0.6
16-Feb-08	0	0	1	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.8
17-Feb-08	0	0	0	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	A	0.6	1.1
18-Feb-08	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	A	0	0	0.6	1.3
19-Feb-08	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	A	1	2	1	0.5	2.2
20-Feb-08	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	A	1	1	1	0	0.4	1.3
21-Feb-08	0	0	0	0	0	0	0	1	1	1	1	1	C	C	A	2	1	0	0	1	2	1	1	0.6	1.6	
22-Feb-08	1	A	0	0	0	0	0	0	0	0	1	3	2	2	1	1	1	1	1	1	0	0	0	0	0.6	2.6
23-Feb-08	A	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	A	0.4	0.8
24-Feb-08	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	A	0.4	1.0	
25-Feb-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.4	
26-Feb-08	0	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.7	1.3
27-Feb-08	1	1	1	1	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.6	0.8
28-Feb-08	0	1	0	0	0	0	1	1	0	0	0	0	1	1	1	1	0	0	0	A	0	0	0	0	0.3	0.6
29-Feb-08	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.2	0.6



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

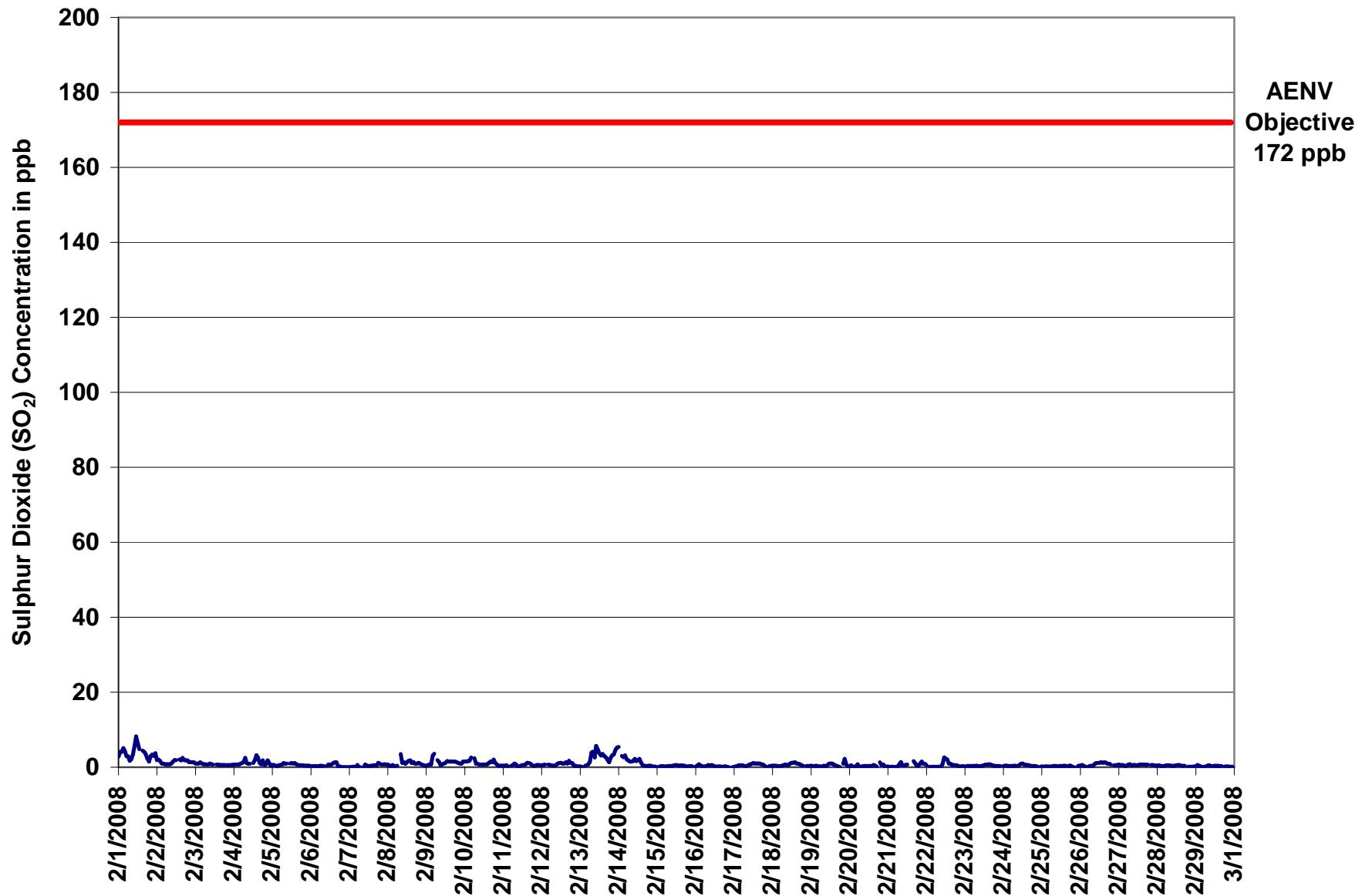


Figure 16. PAS – Brooks Sulphur Dioxide 1-hr Average Monthly Trend



Station: Portable-Brooks
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Summary

Maximum 1-hr Value:	17.7 ppb	8-Feb 8:00 9:00
Maximum 24-hr Value:	5.0 ppb	1-Feb

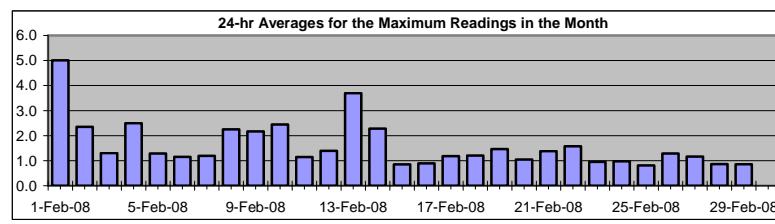
AIC Time:	31 hrs	Operational Time:	663 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	

Percentile 99 95 75 50 25 5 1 Average 1.6 ppb Median 1.1 ppb

Day Mountain Standard Time

	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum	
	Hour 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			
	1:00																										
1-Feb-08	4	5	5	6	5	4	4	3	4	5	8	10	7	7	A	7	6	5	3	2	4	4	4	4	6	5.0	9.5
2-Feb-08	3	4	3	2	2	1	1	1	2	2	2	3	3	A	3	2	5	4	3	3	2	2	2	2	2	2.4	4.5
3-Feb-08	2	1	2	2	2	1	2	1	1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1.3	1.9
4-Feb-08	1	2	1	1	2	2	7	8	2	2	1	A	2	4	4	3	3	2	4	1	1	1	3	2	1	2.5	7.5
5-Feb-08	1	1	1	1	1	1	1	2	2	2	A	2	2	2	3	1	1	1	1	1	1	1	1	1	1	1.3	2.8
6-Feb-08	1	1	1	1	1	1	1	1	A	1	1	1	3	3	2	2	1	1	1	1	1	0	0	0	1	1.2	3.4
7-Feb-08	0	1	1	1	1	1	1	0	A	1	2	2	1	1	1	1	1	1	1	4	2	2	1	2	1	1.2	3.6
8-Feb-08	1	1	1	1	1	1	2	A	18	2	3	1	2	2	2	2	2	2	2	2	2	2	2	1	1	2.3	17.7
9-Feb-08	1	1	1	1	5	8	A	5	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2.2	7.7
10-Feb-08	2	2	2	3	3	A	4	1	1	1	1	1	2	1	1	5	6	3	7	5	1	1	1	1	1	2.4	6.9
11-Feb-08	1	1	1	1	A	1	1	2	2	0	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1.1	2.2
12-Feb-08	1	1	1	A	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1.4	2.3
13-Feb-08	1	1	A	1	1	2	3	6	5	5	8	5	5	4	4	4	3	3	2	4	4	4	5	5	7	3.7	7.8
14-Feb-08	8	A	4	4	4	3	2	2	2	2	3	2	3	3	3	1	1	1	1	1	1	1	1	1	1	2.3	8.2
15-Feb-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
16-Feb-08	1	1	3	2	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	0	A	1	0.9	2.5
17-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	1	1	1	A	1	1.2	2.1	
18-Feb-08	1	1	1	1	1	1	1	1	2	1	1	2	2	2	2	2	2	2	2	1	1	1	A	1	1	1.2	2.0
19-Feb-08	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	A	1	1	1.5	7.8	
20-Feb-08	1	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	A	3	1	2	1	1	1	1	1.0	3.1
21-Feb-08	1	1	1	1	0	1	1	3	3	1	1	1	1	C	C	A	2	3	1	1	2	3	2	2	1	1.4	3.4
22-Feb-08	1	A	1	1	1	1	0	1	1	1	3	5	4	7	2	2	1	1	2	1	1	1	1	1	1	1.6	7.2
23-Feb-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	A	1.0	1.5
24-Feb-08	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	A	1	1.0	1.8
25-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.8	1.2
26-Feb-08	2	1	1	1	0	1	1	1	1	2	2	2	2	2	2	2	2	2	2	1	1	2	A	1	1	1.3	1.9
27-Feb-08	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.2	1.8
28-Feb-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.9	1.3
29-Feb-08	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.9	1.5

Hourly Avg	1.5	1.3	1.4	1.3	1.4	1.4	1.5	1.5	1.7	2.1	1.4	1.4	1.8	1.9	1.9	2.1	1.8	1.9	1.8	1.6	1.7	1.5	1.4	1.4	1.3	1.4
Hourly Max	8.2	5.1	5.1	5.7	5.3	7.7	7.4	7.5	17.7	5.0	7.8	9.5	7.1	7.2	4.2	7.0	5.8	4.5	4.6	4.0	7.8	5.1	6.8			



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



Station: Portable-Brooks
Station Owner: PAS

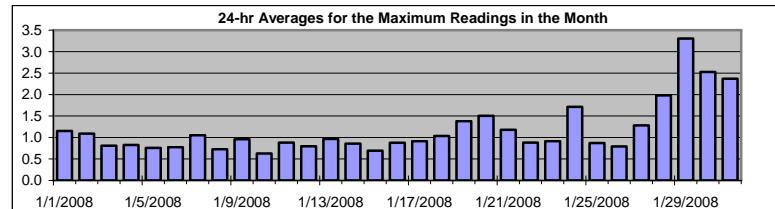
Monitoring Dates: January 1, 2008 to February 1, 2008

INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

Summary

Maximum 1-hr Value:	8.5 ppb	31-Jan 21:00 22:00
Maximum 24-hr Value:	3.3 ppb	29-Jan



AIC Time:	32 hrs	Operational Time:	709 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median
	5.1 3.1 1.2 0.9 0.7 0.5 0.5	1.2 ppb	0.9 ppb

Status Flag Characters

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

Day Mountain Standard Time

	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum	
	Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jan-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	2	A	2	1	1	1	1	1	1	1.2	2.8
2-Jan-08	1	1	1	1	1	1	1	1	2	2	1	2	2	1	1	1	1	1	A	1	1	1	1	1	1	1	1.1	2.0
3-Jan-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	1	0.8	1.1	
4-Jan-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	1.3		
5-Jan-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	0.9		
6-Jan-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	1.3		
7-Jan-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	2	1	1	1	1	1	1.1	1.5		
8-Jan-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	1.4		
9-Jan-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	2	2	1	1	1	1.0	1.6		
10-Jan-08	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0.6	1.1	
11-Jan-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.2	
12-Jan-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	A	1	0.8	2.0		
13-Jan-08	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	A	1	1	1	1.0	2.2	
14-Jan-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.9	1.3	
15-Jan-08	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.7	1.7	
16-Jan-08	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.9	2.0	
17-Jan-08	1	1	1	1	1	1	1	1	1	2	C	C	C	A	1	1	1	1	2	1	1	1	1	1	1	0.9	2.1	
18-Jan-08	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1.0	1.9	
19-Jan-08	A	1	1	1	1	2	1	3	2	1	1	1	1	1	1	2	3	2	1	2	2	1	1	1	1	1.4	2.9	
20-Jan-08	1	1	1	1	1	3	3	1	1	2	2	2	1	1	3	3	2	2	1	1	1	1	A	1	1	1.5	3.4	
21-Jan-08	2	1	1	3	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1.2	3.1	
22-Jan-08	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	0.9	1.7	
23-Jan-08	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.4	
24-Jan-08	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3	4	5	4	1	1	A	1	1.7	4.9		
25-Jan-08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.9	1.4		
26-Jan-08	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0	1	0.8	1.9		
27-Jan-08	1	1	1	1	1	0	1	1	1	1	1	1	5	7	2	2	1	1	1	1	1	A	1	1	1.3	7.0		
28-Jan-08	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	3	3	A	2	2	2	2	2	2	2.0	3.1	
29-Jan-08	3	3	2	2	2	2	3	3	3	4	7	4	6	8	3	2	A	2	2	2	2	2	2	2	3	3.3	8.4	
30-Jan-08	3	3	2	2	2	2	2	2	2	2	4	2	3	3	5	4	A	1	4	1	2	2	2	2	1	2.5	5.1	
31-Jan-08	3	4	1	1	1	2	2	1	1	1	1	1	1	1	1	1	A	3	3	2	1	3	9	6	2.4	8.5		
	Hourly Avg	1.1	1.1	0.9	1.0	0.9	1.0	1.0	1.1	1.0	1.3	1.4	1.4	1.4	1.6	1.4	1.4	1.4	1.2	1.3	1.1	1.1	1.3	1.2	1.1			
	Hourly Max	3.2	3.9	2.4	3.1	2.3	2.7	2.8	2.9	3.3	3.3	4.2	7.2	7.0	6.2	8.4	4.3	3.2	3.7	4.9	3.8	3.2	8.5	6.3	5.3			

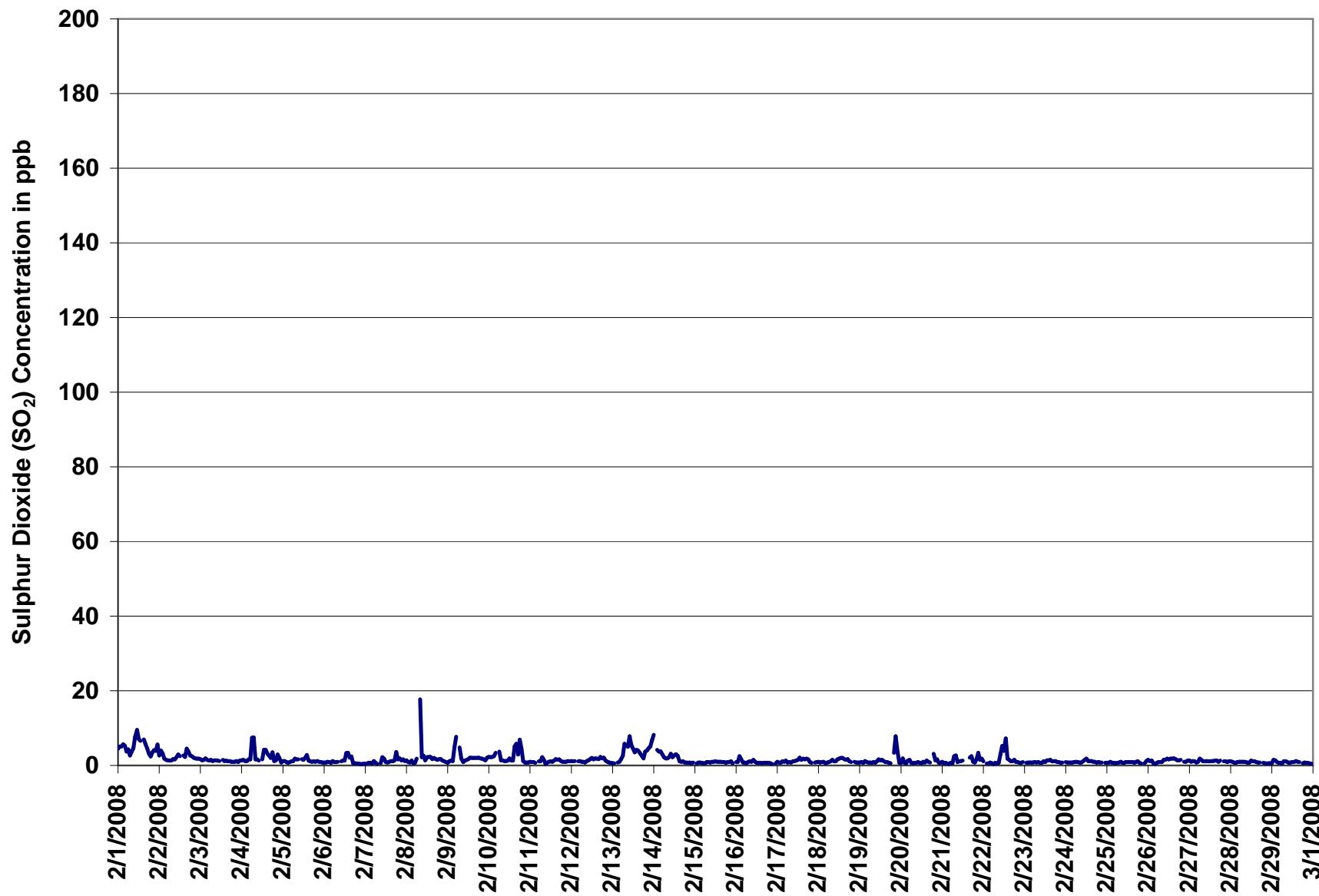
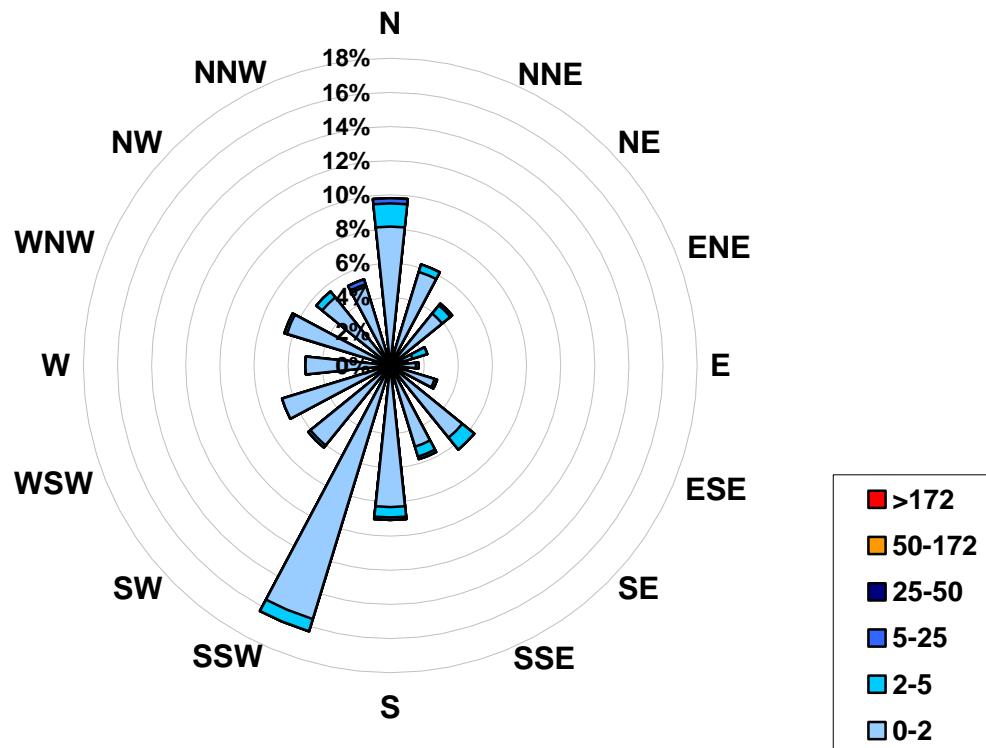


Figure 17. PAS – Brooks Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Portable-Brooks Site for February 2008



Calms:		Frequency Distribution of SO ₂ in ppb		
		Range	Frequency (hrs)	
0.0	<	2	603	
2	to	5	49	
5	to	25	7	
25	to	50	0	
50	to	172	0	
> 172			0	
Total Non-Zero Values			663	



PAS – Brooks Ozone Monthly Summary

Station: Portable-Brooks
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 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: 47.6 ppb 23-Feb 15:00 16:00
Maximum 24-hr Average: 32.9 ppb 17-Feb

AIC Time:	32 hrs	Operational Time:	662 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	42.0	37.7	30.7	24.6	15.1	0.7	0.0		

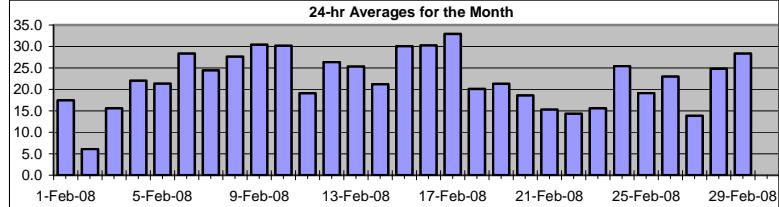
Day Mountain Standard Time

	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-Feb-08	22	22	22	20	19	18	15	14	14	23	24	25	26	26	A	24	22	18	20	19	7	3	0	1	17.5	26.3	
2-Feb-08	1	2	3	2	1	4	6	2	4	10	14	15	17	A	19	18	12	7	2	0	1	0	0	0	6.1	19.1	
3-Feb-08	0	0	0	0	0	0	1	6	10	16	20	21	A	24	26	27	27	26	27	28	25	25	27	27	15.6	27.7	
4-Feb-08	26	27	25	25	25	25	24	19	21	24	28	A	29	28	28	27	24	22	20	25	19	15	1	0	22.0	29.0	
5-Feb-08	0	0	4	7	6	7	4	3	7	15	A	28	31	33	33	34	34	36	36	36	35	35	35	21.4	36.0		
6-Feb-08	34	37	37	37	35	33	28	24	21	A	23	23	35	30	31	32	25	18	21	24	26	26	26	28.4	36.9		
7-Feb-08	29	27	31	30	35	36	33	26	A	22	26	28	30	30	27	26	22	22	19	20	14	15	7	9	24.4	35.5	
8-Feb-08	13	12	19	36	37	35	30	A	18	24	26	29	29	29	29	29	29	29	29	29	31	31	32	31	27.6	36.8	
9-Feb-08	30	29	31	29	26	29	A	30	31	33	33	32	32	32	32	32	32	30	30	29	29	29	30	30	30.4	33.1	
10-Feb-08	30	31	31	27	A	28	33	32	33	32	33	33	33	33	32	31	30	28	27	25	27	28	27	30.2	33.0		
11-Feb-08	27	29	27	24	A	24	22	18	19	21	25	26	28	29	29	27	25	12	1	2	1	9	10	6	19.1	29.1	
12-Feb-08	4	16	27	A	22	23	18	22	20	23	24	30	29	29	32	33	31	34	35	31	31	32	30	30	26.4	35.2	
13-Feb-08	20	27	A	31	30	28	28	27	30	32	30	32	33	33	30	29	26	13	5	17	19	23	22	20	25.3	33.0	
14-Feb-08	18	A	23	24	22	23	20	12	12	17	21	24	23	25	25	23	22	15	16	26	30	25	22	22	21.2	30.0	
15-Feb-08	A	28	23	26	26	23	25	28	26	30	30	32	33	31	32	33	34	34	36	35	35	32	30	A	30.1	35.7	
16-Feb-08	27	21	25	27	22	17	6	13	30	34	39	42	43	42	41	38	38	34	33	33	29	32	A	30.3	42.9		
17-Feb-08	29	31	34	34	34	33	28	31	31	34	35	37	39	40	43	42	41	37	23	21	19	A	32	27	32.9	42.6	
18-Feb-08	28	26	22	13	5	13	16	13	15	15	20	27	29	32	33	31	29	30	20	15	A	7	11	14	20.1	32.6	
19-Feb-08	16	10	9	1	1	5	8	8	8	16	25	27	30	33	36	39	40	39	36	A	26	28	25	26	21.3	40.4	
20-Feb-08	30	29	33	32	32	27	19	9	13	15	19	19	20	21	22	21	18	9	A	12	8	7	4	10	18.6	33.2	
21-Feb-08	7	8	12	15	13	9	16	6	10	18	23	23	23	A	27	C	C	A	22	18	24	14	12	7	15.3	26.6	
22-Feb-08	5	A	15	14	13	10	10	10	12	12	15	18	19	20	23	26	24	17	13	16	13	15	10	0	14.3	26.2	
23-Feb-08	A	0	0	0	0	1	1	1	6	15	23	22	25	26	37	48	44	33	34	16	7	3	1	A	15.6	47.6	
24-Feb-08	6	12	11	10	12	14	15	18	23	25	30	34	34	37	42	42	42	36	34	34	28	28	A	20	25.4	42.2	
25-Feb-08	10	11	6	4	1	1	6	2	8	22	28	27	28	31	30	25	28	26	33	31	A	26	29	19.1	32.7	23.0	40.4
26-Feb-08	28	29	23	17	10	2	0	2	11	21	28	32	37	38	40	39	32	26	22	22	A	23	24	23	23.0	40.4	
27-Feb-08	23	18	18	16	15	17	16	12	17	15	12	17	21	22	21	21	17	14	6	A	0	0	1	0	13.8	22.6	
28-Feb-08	0	1	1	1	1	20	37	38	38	35	36	38	39	39	41	41	40	34	A	25	22	17	13	16	24.8	41.4	
29-Feb-08	20	20	21	18	15	14	16	16	21	25	26	34	41	41	40	38	35	A	33	37	36	34	35	38	28.4	41.4	

Hourly Avg	17.8	18.5	19.0	18.7	17.3	17.4	16.9	15.8	18.1	22.3	25.5	27.6	29.8	30.8	31.6	31.5	29.1	25.3	23.2	23.3	21.0	19.8	18.2	18.7
Hourly Max	34.2	36.6	36.9	36.5	36.8	35.5	36.6	38.2	37.5	35.2	38.5	41.6	42.9	42.4	42.6	47.6	44.1	39.6	35.8	37.3	35.9	35.3	35.1	37.6

HOURLY AVERAGE TABLE

Ozone (O₃)



Status Flag Characters

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

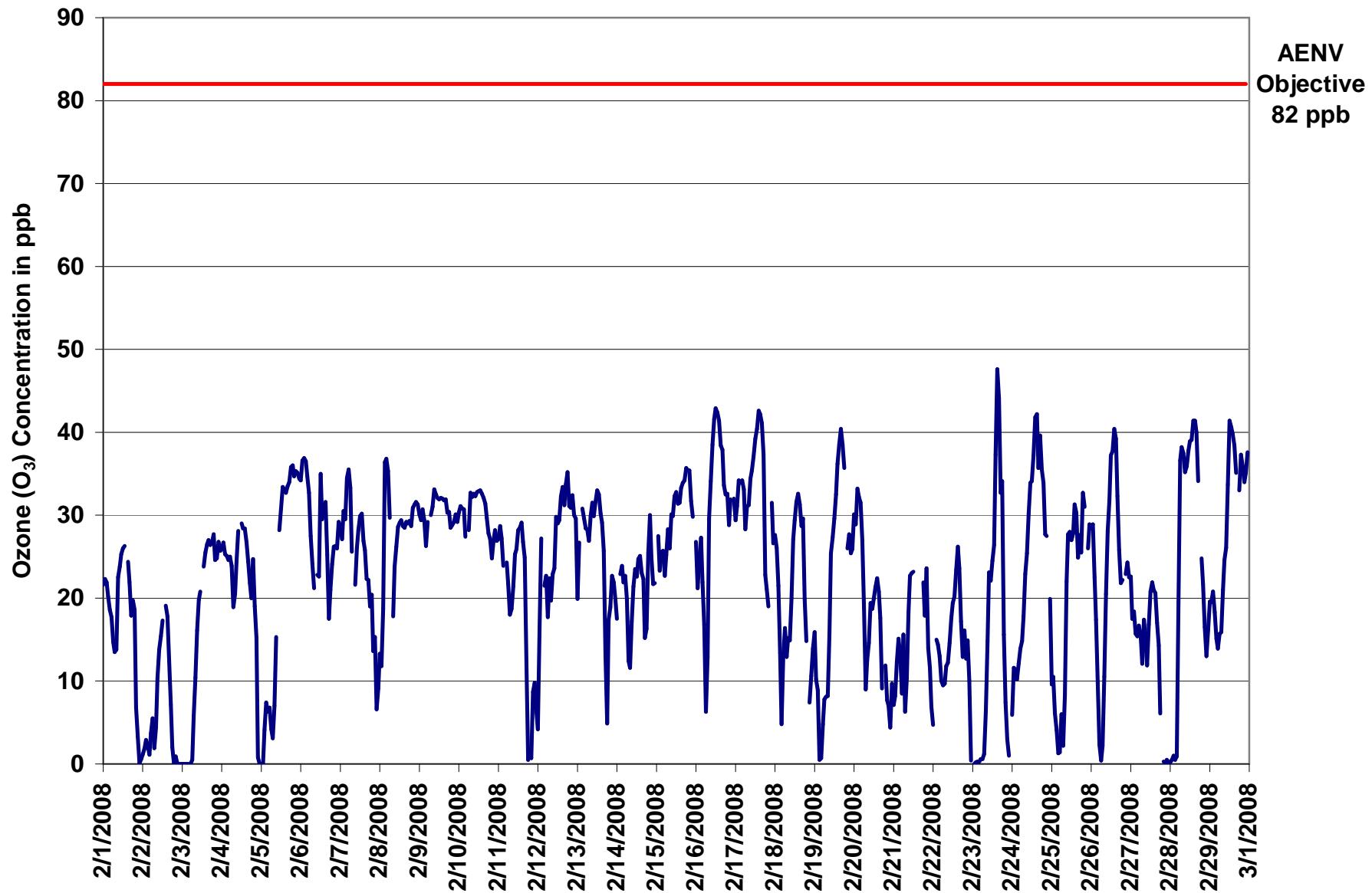


Figure 18. PAS – Brooks Ozone 1-hr Average Monthly Trend



Station: Portable-Brooks
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

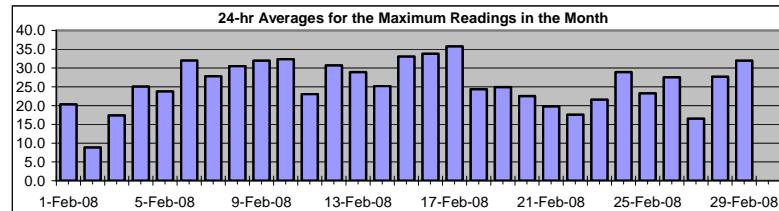
Ozone (O₃)

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Value:	54.8 ppb	23-Feb	16:00 17:00
Maximum 24-hr Value:	35.8 ppb	17-Feb	

AIC Time:	32 hrs	Operational Time:	662 hrs
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	
	45.3 40.9 33.2 27.7 19.3 3.1 0.6	Median	25.8 ppb 27.7 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

	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum
Hour 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	24:00		
1-Feb-08	24	24	24	22	20	20	19	19	21	24	26	27	28	28	A	26	24	21	23	24	12	10	2	2	20.3	27.6
2-Feb-08	5	6	10	8	4	6	8	6	9	12	16	17	20	A	20	20	17	10	8	1	3	1	0	0	8.8	20.1
3-Feb-08	1	0	1	0	1	2	1	12	14	19	21	22	A	26	27	28	29	28	29	27	27	29	27	17.4	29.3	
4-Feb-08	28	29	27	27	27	27	23	25	26	30	A	31	30	30	29	27	26	26	26	26	25	8	0	25.1	30.9	
5-Feb-08	1	0	9	9	10	9	9	5	12	A	31	34	35	35	36	35	36	38	37	36	37	36	36	23.8	37.6	
6-Feb-08	36	38	38	38	37	35	31	27	A	26	27	43	34	34	35	30	24	26	30	29	30	30	32	32.0	42.5	
7-Feb-08	32	31	32	34	37	38	36	31	A	26	29	31	32	32	28	30	25	25	21	23	20	19	16	13	27.8	37.5
8-Feb-08	15	15	31	39	39	37	35	A	25	26	29	32	31	31	31	30	32	31	32	32	33	33	33	30.5	39.4	
9-Feb-08	32	32	32	31	29	31	A	31	33	34	34	33	33	33	33	33	32	32	30	31	32	31	31	32	32.0	34.3
10-Feb-08	33	34	32	32	30	A	33	34	34	33	34	34	34	34	34	33	34	33	31	32	27	30	30	30	32.4	34.2
11-Feb-08	31	32	32	26	A	27	24	21	21	25	27	28	30	30	30	31	30	28	2	5	4	17	18	12	23.1	32.3
12-Feb-08	8	27	29	A	28	26	23	25	22	31	28	35	39	35	36	37	35	37	33	36	36	32	32	32	30.7	39.3
13-Feb-08	27	31	A	33	31	31	31	30	31	34	32	33	34	34	31	30	30	24	19	24	24	25	24	23	28.9	34.4
14-Feb-08	20	A	26	27	27	26	25	22	16	21	25	25	24	28	28	27	26	20	21	32	33	28	27	29	25.2	32.5
15-Feb-08	A	33	29	31	30	30	30	31	29	32	32	34	34	33	33	34	35	36	37	37	37	36	32	A	33.1	37.1
16-Feb-08	31	27	29	32	25	19	13	29	36	36	41	44	44	44	43	41	40	38	36	34	32	34	A	33.8	44.2	
17-Feb-08	34	34	35	36	36	35	34	34	36	37	39	41	42	44	44	43	42	31	25	23	A	36	31	35.8	44.4	
18-Feb-08	30	28	26	23	13	21	19	17	17	19	23	31	31	33	34	34	32	32	29	17	A	16	17	18	24.4	34.3
19-Feb-08	21	17	14	4	4	7	10	11	11	22	28	29	31	35	39	41	42	40	38	A	36	32	30	31	24.9	42.0
20-Feb-08	35	35	35	34	34	31	26	19	16	18	22	21	21	24	26	23	21	14	A	16	13	13	11	12	22.5	35.3
21-Feb-08	13	16	18	19	16	13	19	16	15	22	25	24	27	A	28	C	C	A	25	24	31	20	16	12	19.8	30.6
22-Feb-08	10	A	17	16	16	12	11	12	15	14	17	19	21	22	26	28	27	22	18	24	17	19	20	4	17.6	27.8
23-Feb-08	A	1	1	2	1	2	2	3	11	22	25	23	27	30	47	55	55	47	50	28	27	16	2	A	21.6	54.8
24-Feb-08	11	13	13	15	16	16	17	24	24	29	34	35	36	39	46	45	39	42	39	37	33	31	A	28.9	45.5	
25-Feb-08	29	16	8	6	3	5	13	5	17	27	30	30	29	30	33	33	28	33	29	35	34	A	30	32	23.3	35.0
26-Feb-08	32	31	26	23	22	6	2	6	14	26	31	34	41	41	45	46	38	32	29	27	A	28	26	26	27.5	46.1
27-Feb-08	25	21	20	19	17	19	19	16	21	18	16	20	23	24	23	23	20	17	14	A	2	1	2	2	16.5	25.1
28-Feb-08	1	2	3	2	4	33	39	40	39	38	38	39	40	41	43	43	42	38	A	29	26	21	17	21	27.7	43.3
29-Feb-08	26	25	25	21	19	17	18	18	24	27	28	41	43	43	42	41	39	A	44	42	38	39	37	41	32.0	44.1

Hourly Avg 21.7 22.1 22.2 21.7 20.6 20.7 20.5 20.2 21.8 25.7 27.8 29.9 32.2 32.9 33.9 34.1 32.4 29.9 28.2 27.1 25.4 24.1 21.9 22.0

Hourly Max 35.8 38.3 38.2 39.2 39.4 37.5 38.6 40.1 38.8 37.7 40.9 43.6 44.2 43.8 46.8 54.5 54.8 47.4 49.9 42.3 38.0 38.5 37.1 40.9

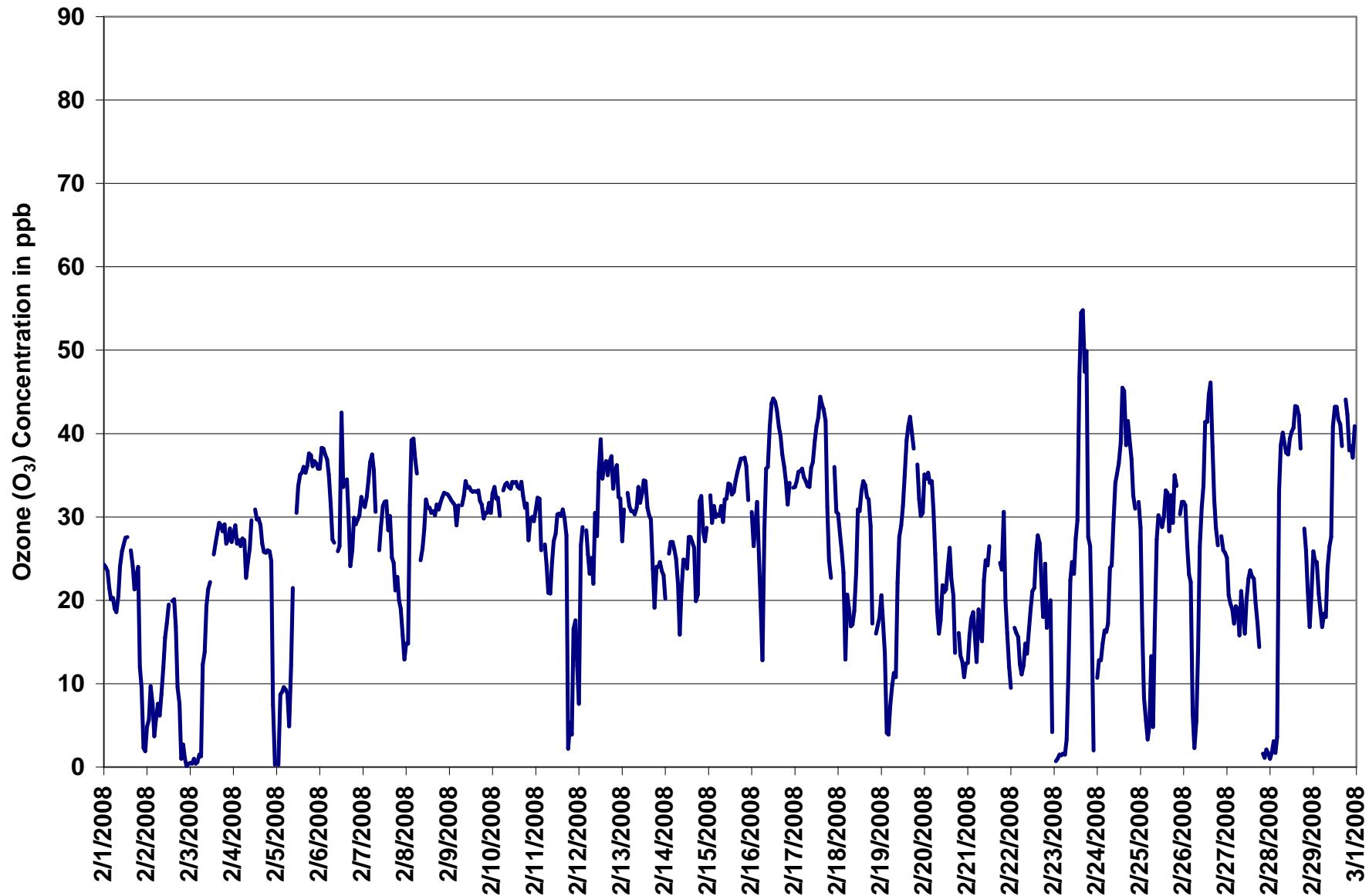
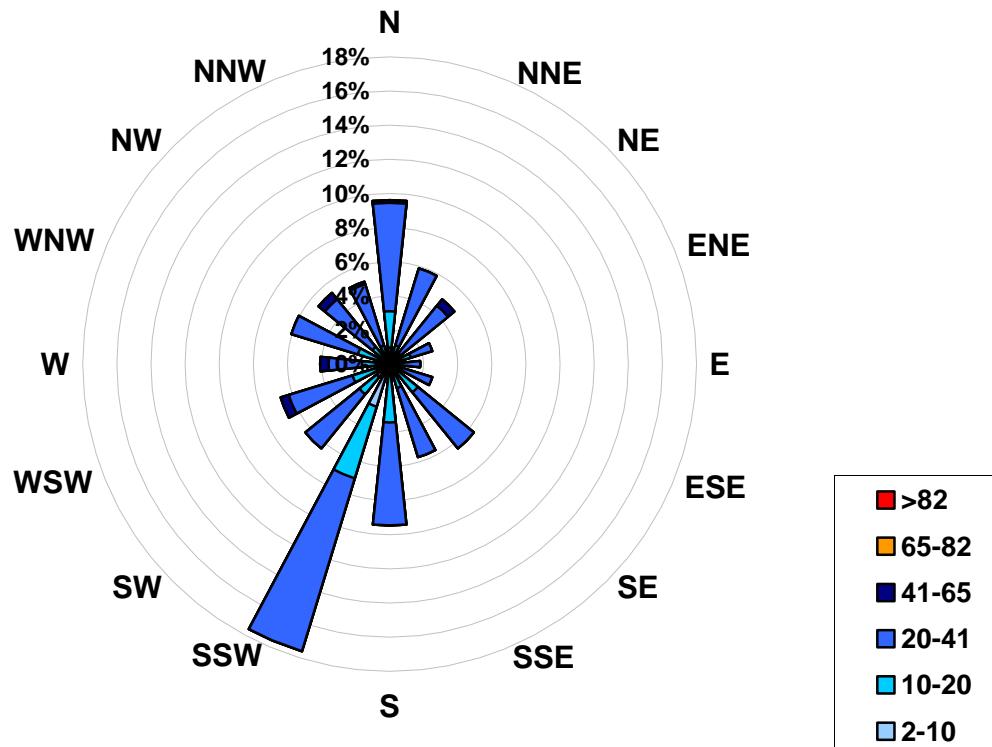


Figure 19. PAS – Brooks Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Ozone (in ppb) Located at the Portable-Brooks Site for February 2008



Calms:	0%
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Frequency Distribution of O ₃ in ppb		
Range	Frequency (hrs)	
2.0 < 10	108	
10 to 20	133	
20 to 41	405	
41 to 65	14	
65 to 82	0	
> 82	0	
Total Non-Zero Values	662	



PAS – Brooks Ozone Eight Hour Average Summary

Station: Portable-Brooks
Station Owner: PAS

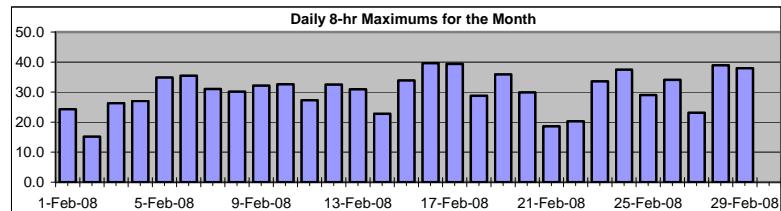
Monitoring Dates: February 1, 2008 to March 1, 2008

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

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	39.7 ppb 16-Feb 16:00 17:00

EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O_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 1:00	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 2:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	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	25:00	
1-Feb-08	21	22	22	22	21	20	19	18	18	18	19	20	21	22	23	24	24	23	22	19	16	14	11	10	24.3	
2-Feb-08	9	7	4	2	2	2	2	3	3	4	5	7	9	10	12	14	15	15	13	11	8	7	5	3	15.2	
3-Feb-08	1	0	0	0	0	0	0	1	2	4	7	9	10	14	17	20	23	24	25	26	26	26	26	26	26.3	
4-Feb-08	26	26	26	26	26	25	24	24	23	24	24	24	25	25	27	27	27	26	25	24	23	19	16	16	27.1	
5-Feb-08	13	10	8	6	4	3	4	4	5	7	7	10	14	17	22	26	30	32	33	34	34	35	35	35	34.9	
6-Feb-08	35	35	35	35	35	35	34	33	31	31	29	27	27	27	28	28	27	27	26	25	25	25	25	24	35.5	
7-Feb-08	25	26	27	28	29	30	31	31	30	29	29	29	28	27	27	26	26	26	25	25	23	21	18	16	31.0	
8-Feb-08	15	14	14	16	19	21	24	26	27	28	29	28	27	26	26	27	28	29	29	29	29	29	30	30	30.2	
9-Feb-08	30	30	31	31	30	30	29	29	29	30	30	31	31	32	32	32	32	32	32	31	31	30	30	30	32.2	
10-Feb-08	30	30	30	30	30	30	30	30	31	31	32	32	33	33	33	32	32	32	31	30	29	29	28	32.6		
11-Feb-08	27	27	27	27	27	26	24	23	22	22	23	23	24	25	26	25	26	25	22	19	16	13	11	8	27.3	
12-Feb-08	6	6	9	10	13	15	17	19	21	22	22	23	23	24	26	28	29	30	32	32	32	33	32	32	32.5	
13-Feb-08	30	29	29	28	28	28	27	29	29	29	30	30	30	31	31	30	28	25	23	21	20	19	18	31.0		
14-Feb-08	17	18	20	21	22	22	21	20	19	19	19	19	19	19	20	21	22	22	22	23	23	22	22	22	22.8	
15-Feb-08	22	24	25	25	24	24	25	25	26	26	27	28	28	30	30	31	32	32	33	34	34	34	34	34	33.9	
16-Feb-08	33	31	29	28	26	24	21	20	20	22	23	25	28	31	35	39	40	40	39	38	36	35	34	33	39.7	
17-Feb-08	32	31	31	32	32	33	32	32	33	33	33	34	34	35	36	38	39	39	38	36	33	32	31	28	39.4	
18-Feb-08	27	25	25	24	22	21	19	17	15	14	14	16	19	21	23	25	27	29	29	27	27	23	20	18	28.8	
19-Feb-08	16	13	12	10	9	8	8	7	6	7	9	12	16	19	23	27	31	34	35	36	35	35	33	31	35.9	
20-Feb-08	30	29	28	29	29	29	28	26	24	22	21	19	17	17	17	19	19	19	19	18	16	14	11	10	29.9	
21-Feb-08	8	8	9	9	10	10	11	11	11	12	14	15	16	17	19	N	N	N	N	N	N	N	N	18.6		
22-Feb-08	14	14	13	13	11	11	11	11	12	12	12	13	14	16	18	20	20	20	20	19	18	17	13	20.3		
23-Feb-08	12	10	8	6	4	2	0	0	1	3	6	9	12	15	19	25	30	32	34	33	31	28	23	20	33.6	
24-Feb-08	14	11	8	7	8	9	11	12	14	16	18	21	24	27	30	33	35	37	38	38	37	35	35	31	37.5	
25-Feb-08	28	24	19	15	11	8	7	5	5	6	9	12	15	19	22	25	27	28	28	29	29	28	28	28	29.0	
26-Feb-08	29	29	28	26	23	21	17	14	12	11	11	13	17	21	26	31	33	34	33	32	31	29	27	25	34.1	
27-Feb-08	23	22	21	21	20	19	18	17	16	16	15	15	16	16	17	18	18	18	17	17	14	11	8	6	23.2	
28-Feb-08	3	1	0	0	0	3	7	12	17	21	21	26	30	35	37	38	38	39	39	39	37	35	31	27	24	39.0
29-Feb-08	21	19	19	18	17	17	17	18	18	19	21	24	27	30	33	35	36	37	38	37	36	36	35	35	37.9	

Hourly Max 34.9 35.3 35.4 35.5 35.5 35.1 34.2 32.9 32.1 32.6 32.7 33.1 35.0 37.4 38.0 38.6 39.7 39.6 39.0 37.9 37.2 36.2 35.5 35.4



PAS – Brooks Hydrogen Sulphide Monthly Summary

Station: Portable-Brooks
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

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

Number of 1-hr Exceedances:	10
Number of 24-hr Exceedances:	1
Maximum 1-hr Average:	30.6 ppb
Maximum 24-hr Value:	4.6 ppb
25-Feb	4:00 5:00

AIC Time:	31 hrs	Operational Time:	662 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median
	13.3 1.5 0.3 0.1 0.0 0.0	0.6 ppb	0.1 ppb

Day Mountain Standard Time

	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	25:00	26:00	27:00	28:00	29:00	30:00	31:00	32:00	33:00	34:00	35:00	36:00	37:00	38:00	39:00	40:00	41:00	42:00	43:00	44:00	45:00	46:00	47:00	48:00	49:00	50:00	51:00	52:00	53:00	54:00	55:00	56:00	57:00	58:00	59:00	60:00	61:00	62:00	63:00	64:00	65:00	66:00	67:00	68:00	69:00	70:00	71:00	72:00	73:00	74:00	75:00	76:00	77:00	78:00	79:00	80:00	81:00	82:00	83:00	84:00	85:00	86:00	87:00	88:00	89:00	90:00	91:00	92:00	93:00	94:00	95:00	96:00	97:00	98:00	99:00	100:00	101:00	102:00	103:00	104:00	105:00	106:00	107:00	108:00	109:00	110:00	111:00	112:00	113:00	114:00	115:00	116:00	117:00	118:00	119:00	120:00	121:00	122:00	123:00	124:00	125:00	126:00	127:00	128:00	129:00	130:00	131:00	132:00	133:00	134:00	135:00	136:00	137:00	138:00	139:00	140:00	141:00	142:00	143:00	144:00	145:00	146:00	147:00	148:00	149:00	150:00	151:00	152:00	153:00	154:00	155:00	156:00	157:00	158:00	159:00	160:00	161:00	162:00	163:00	164:00	165:00	166:00	167:00	168:00	169:00	170:00	171:00	172:00	173:00	174:00	175:00	176:00	177:00	178:00	179:00	180:00	181:00	182:00	183:00	184:00	185:00	186:00	187:00	188:00	189:00	190:00	191:00	192:00	193:00	194:00	195:00	196:00	197:00	198:00	199:00	200:00	201:00	202:00	203:00	204:00	205:00	206:00	207:00	208:00	209:00	210:00	211:00	212:00	213:00	214:00	215:00	216:00	217:00	218:00	219:00	220:00	221:00	222:00	223:00	224:00	225:00	226:00	227:00	228:00	229:00	230:00	231:00	232:00	233:00	234:00	235:00	236:00	237:00	238:00	239:00	240:00	241:00	242:00	243:00	244:00	245:00	246:00	247:00	248:00	249:00	250:00	251:00	252:00	253:00	254:00	255:00	256:00	257:00	258:00	259:00	260:00	261:00	262:00	263:00	264:00	265:00	266:00	267:00	268:00	269:00	270:00	271:00	272:00	273:00	274:00	275:00	276:00	277:00	278:00	279:00	280:00	281:00	282:00	283:00	284:00	285:00	286:00	287:00	288:00	289:00	290:00	291:00	292:00	293:00	294:00	295:00	296:00	297:00	298:00	299:00	300:00	301:00	302:00	303:00	304:00	305:00	306:00	307:00	308:00	309:00	310:00	311:00	312:00	313:00	314:00	315:00	316:00	317:00	318:00	319:00	320:00	321:00	322:00	323:00	324:00	325:00	326:00	327:00	328:00	329:00	330:00	331:00	332:00	333:00	334:00	335:00	336:00	337:00	338:00	339:00	340:00	341:00	342:00	343:00	344:00	345:00	346:00	347:00	348:00	349:00	350:00	351:00	352:00	353:00	354:00	355:00	356:00	357:00	358:00	359:00	360:00	361:00	362:00	363:00	364:00	365:00	366:00	367:00	368:00	369:00	370:00	371:00	372:00	373:00	374:00	375:00	376:00	377:00	378:00	379:00	380:00	381:00	382:00	383:00	384:00	385:00	386:00	387:00	388:00	389:00	390:00	391:00	392:00	393:00	394:00	395:00	396:00	397:00	398:00	399:00	400:00	401:00	402:00	403:00	404:00	405:00	406:00	407:00	408:00	409:00	410:00	411:00	412:00	413:00	414:00	415:00	416:00	417:00	418:00	419:00	420:00	421:00	422:00	423:00	424:00	425:00	426:00	427:00	428:00	429:00	430:00	431:00	432:00	433:00	434:00	435:00	436:00	437:00	438:00	439:00	440:00	441:00	442:00	443:00	444:00	445:00	446:00	447:00	448:00	449:00	450:00	451:00	452:00	453:00	454:00	455:00	456:00	457:00	458:00	459:00	460:00	461:00	462:00	463:00	464:00	465:00	466:00	467:00	468:00	469:00	470:00	471:00	472:00	473:00	474:00	475:00	476:00	477:00	478:00	479:00	480:00	481:00	482:00	483:00	484:00	485:00	486:00	487:00	488:00	489:00	490:00	491:00	492:00	493:00	494:00	495:00	496:00	497:00	498:00	499:00	500:00	501:00	502:00	503:00	504:00	505:00	506:00	507:00	508:00	509:00	510:00	511:00	512:00	513:00	514:00	515:00	516:00	517:00	518:00	519:00	520:00	521:00	522:00	523:00	524:00	525:00	526:00	527:00	528:00	529:00	530:00	531:00	532:00	533:00	534:00	535:00	536:00	537:00	538:00	539:00	540:00	541:00	542:00	543:00	544:00	545:00	546:00	547:00	548:00	549:00	550:00	551:00	552:00	553:00	554:00	555:00	556:00	557:00	558:00	559:00	560:00	561:00	562:00	563:00	564:00	565:00	566:00	567:00	568:00	569:00	570:00	571:00	572:00	573:00	574:00	575:00	576:00	577:00	578:00	579:00	580:00	581:00	582:00	583:00	584:00	585:00	586:00	587:00	588:00	589:00	590:00	591:00	592:00	593:00	594:00	595:00	596:00	597:00	598:00	599:00	600:00	601:00	602:00	603:00	604:00	605:00	606:00	607:00	608:00	609:00	610:00	611:00	612:00	613:00	614:00	615:00	616:00	617:00	618:00	619:00	620:00	621:00	622:00	623:00	624:00	625:00	626:00	627:00	628:00	629:00	630:00	631:00	632:00	633:00	634:00	635:00	636:00	637:00	638:00	639:00	640:00	641:00	642:00	643:00	644:00	645:00	646:00	647:00	648:00	649:00	650:00	651:00	652:00	653:00	654:00	655:00	656:00	657:00	658:00	659:00	660:00	661:00	662:00	663:00	664:00	665:00	666:00	667:00	668:00	669:00	670:00	671:00	672:00	673:00	674:00	675:00	676:00	677:00	678:00	679:00	680:00	681:00	682:00	683:00	684:00	685:00	686:00	687:00	688:00	689:00	690:00	691:00	692:00	693:00	694:00	695:00	696:00	697:00	698:00	699:00	700:00	701:00	702:00	703:00	704:00	705:00	706:00	707:00	708:00	709:00	710:00	711:00	712:00	713:00	714:00	715:00	716:00	717:00	718:00	719:00	720:00	721:00	722:00	723:00	724:00	725:00	726:00	727:00	728:00	729:00	730:00	731:00	732:00	733:00	734:00	735:00	736:00	737:00	738:00	739:00	740:00	741:00	742:00	743:00	744:00	745:00	746:00	747:00	748:00	749:00	750:00	751:00	752:00	753:00	754:00	755:00	756:00	757:00	758:00	759:00	760:00	761:00	762:00	763:00	764:00	765:00	766:00	767:00	768:00	769:00	770:00	771:00	772:00	773:00	774:00	775:00	776:00	777:00	778:00	779:00	780:00	781:00	782:00	783:00	784:00	785:00	786:00	787:00	788:00	789:00	790:00	791:00	792:00	793:00	794:00	795:00	796:00	797:00	798:00	799:00	800:00	801:00	802:00	803:00	804:00	805:00	806:00	807:00	808:00	809:00	810:00	811:00	812:00	813:00	814:00	815:00	816:00	817:00	818:00	819:00	820:00	821:00	822:00	823:00	824:00	825:00	826:00	827:00	828:00	829:00	830:00	831:00	832:00	833:00	834:00	835:00	836:00	837:00	838:00	839:00	840:00	841:00	842:00	843:00	844:00	845:00	846:00	847:00	848:00	849:00	850:00	851:00	852:00	853:00	854:00	855:00	856:00	857:00	858:00	859:00	860:00	861:00	862:00	863:00	864:00	865:00	866:00	867:00	868:00	869:00	870:00	871:00	872:00	873:00	874:00	875:00	876:00	877:00	878:00	879:00	880:00	881:00	882:00	883:00	884:00	885:00	886:00	887:00	888:00	889:00	890:00	891:00	892:00	893:00	894:00	895:00	896:00	897:00	898:00	899:00	900:00	901:00	902:00	903:00	904:00	905:00	906:00	907:00	908:00	909:00	910:00	911:00	912:00	913:00	914:00	915:00	916:00	917:00	918:00	919:00	920:00	921:00	922:00	923:00	924:00	925:00	926:00	927:00	928:00	929:00	930:00	931:00	932:00	933:00	934:00	935:00	936:00	937:00	938:00	939:00	940:00	941:00	942:00	943:00	944:00	945:00	946:00	947:00	948:00</th

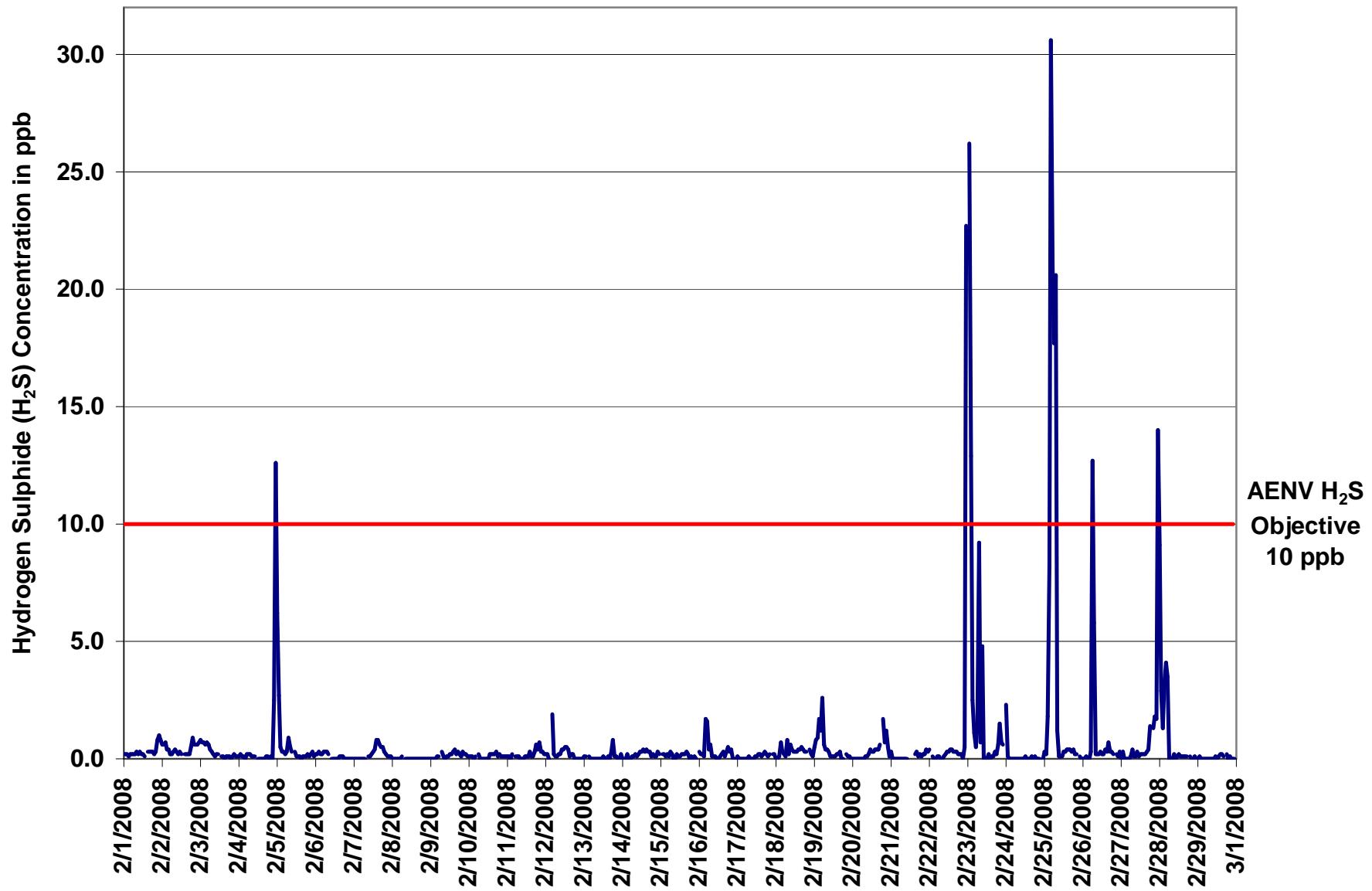


Figure 20. PAS – Brooks Hydrogen Sulphide 1-hr Average Monthly Trend



Station: Portable-Brooks
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

INSTANTANEOUS (30 Second) MAXIMUM TABLE

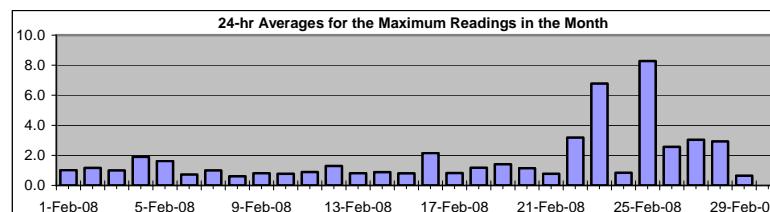
Hydrogen Sulphide (H₂S)

Summary

Maximum 1-hr Value:	52.3 ppb	22-Feb 23:00 0:00
Maximum 24-hr Value:	8.3 ppb	25-Feb

AIC Time:	31 hrs	Operational Time:	662 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%
Percentile	99 95 75 50 25 5 1	Average	Median
	27.5 4.5 1.0 0.8 0.7 0.5 0.3	1.8 ppb	0.8 ppb

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-Feb-08	1:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1.0	2.1		
2-Feb-08	2:00	2	1	2	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	2	1	1	1	2	1.2	1.8		
3-Feb-08	3:00	2	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1.0	1.5	
4-Feb-08	4:00	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	13	16	1.9	15.6	
5-Feb-08	5:00	10	7	1	1	1	1	1	1	2	2	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1.6	10.4	
6-Feb-08	6:00	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0.7	1.1	
7-Feb-08	7:00	0	0	1	0	1	0	1	1	A	1	1	1	1	1	2	3	3	1	1	1	1	1	1	1	1	1.0	3.2	
8-Feb-08	8:00	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0	0	1	0	1	1	1	1	1	0.6	0.9	
9-Feb-08	9:00	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1	
10-Feb-08	10:00	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3	
11-Feb-08	11:00	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.9	1.5	
12-Feb-08	12:00	1	1	1	A	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.3	10.6	
13-Feb-08	13:00	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.8	2.2	
14-Feb-08	14:00	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2	
15-Feb-08	15:00	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3	
16-Feb-08	16:00	1	1	1	1	1	13	12	1	3	1	1	1	1	1	1	1	1	1	1	1	2	1	3	1	A	2.2	12.7	
17-Feb-08	17:00	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	A	1	2	0.8	2.3	
18-Feb-08	18:00	1	1	1	2	1	1	1	5	1	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.2	4.8	
19-Feb-08	19:00	2	2	3	3	2	5	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.4	5.1	
20-Feb-08	20:00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	4	1	1.1	4.3		
21-Feb-08	21:00	1	1	1	1	1	1	1	1	0	1	C	C	C	A	1	1	1	1	1	1	1	1	1	1	1	0.8	1.2	
22-Feb-08	22:00	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3.2	52.3		
23-Feb-08	23:00	A	34	22	6	2	1	20	32	3	11	1	1	1	1	1	1	1	1	1	1	1	3	5	2	1	A	6.8	34.1
24-Feb-08	0:00	6	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	6.2	
25-Feb-08	1:00	1	1	11	16	50	28	33	31	7	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	8.3	49.7	
26-Feb-08	2:00	1	1	1	1	1	1	25	15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	2.6	25.3	
27-Feb-08	3:00	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	8	A	3	3	3.0	27.1		
28-Feb-08	4:00	15	6	4	4	8	18	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	2.9	18.3		
29-Feb-08	5:00	0	1	1	1	1	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.6	1.1		



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

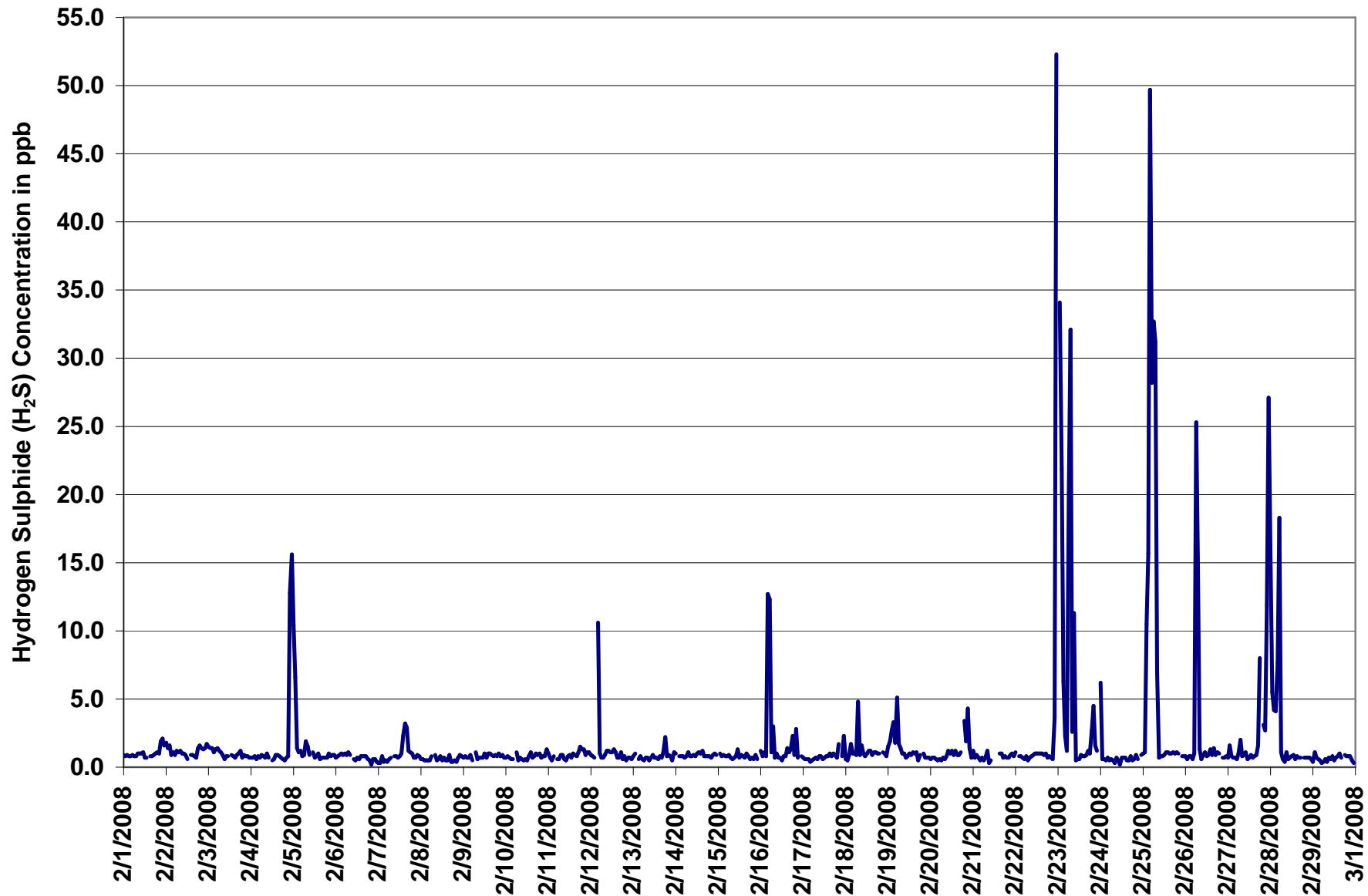
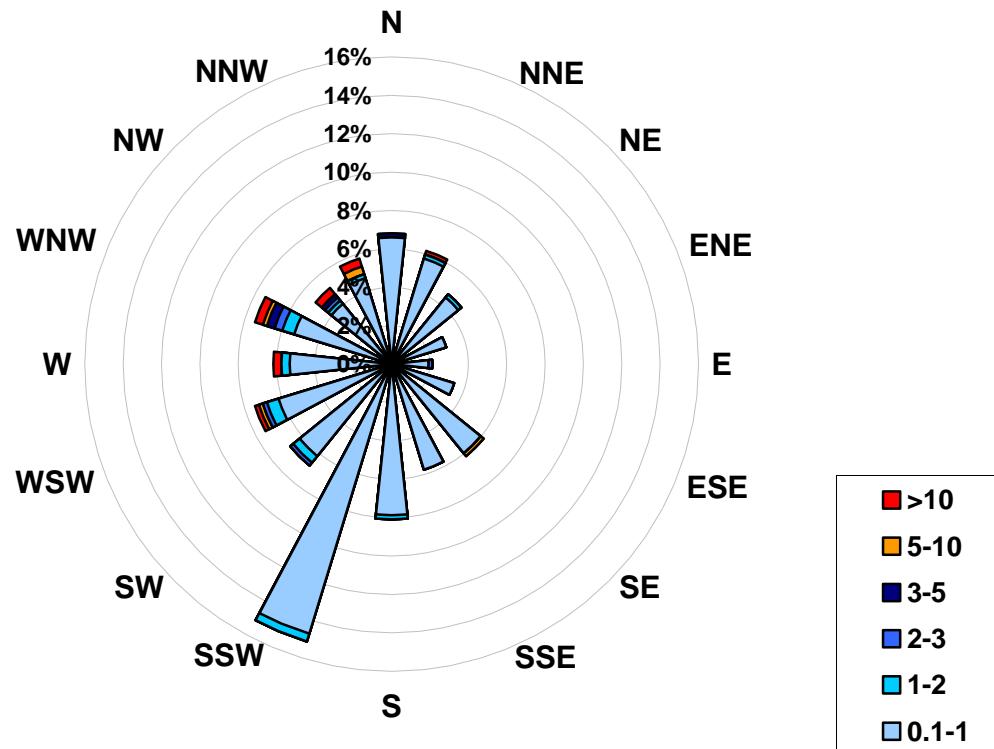


Figure 21. PAS – Brooks Hydrogen Sulphide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Hydrogen Sulphide (in ppb) Located at
the Portable-Brooks Site for February 2008



Calms:		Frequency Distribution of H ₂ S in ppb		
		Range		
		Frequency (hrs)		
0.1	<	1		619
1	to	2		17
2	to	3		6
3	to	5		4
5	to	10		5
	>	10		10
Total Non-Zero Values				662



PAS – Brooks Scalar Wind Speed Monthly Summary

Station: Portable-Brooks
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	39.3	km/hr	10-Feb	7:00 8:00
Maximum 24-hr Value:	21.6	km/hr	8-Feb	

Calm Time:	0 hrs	0% calms	Operational Time:	696 hrs
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%
Percentile				AverageS
99	95	75	50	25 5 1
29.8	23.5	13.0	8.7	5.7 3.2 2.0
				10.3 km/hr

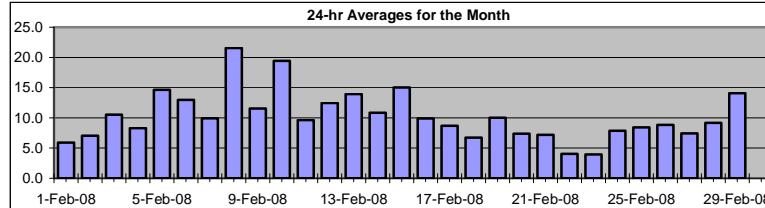
Day Mountain Standard Time

	Hour Start 1:00	0:00	1:00	2:00	3:00	4:00	5:00	6:00	6:00:7:00	7:00:8:00	8:00	9:00	10:00	11:00	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	Daily Max
1-Feb-08	8	4	6	6	5	5	5	6	3	5	5	5	5	6	5	5	4	7	9	10	9	8	6	6	5.9	10.4		
2-Feb-08	6	4	4	6	9	7	6	4	5	4	5	8	7	9	12	10	9	9	11	7	9	7	7	3	7.0	12.2		
3-Feb-08	6	8	7	9	8	8	8	9	8	13	13	10	11	13	13	15	15	15	15	13	11	11	10	11	9	10.5	15.3	
4-Feb-08	8	7	5	3	3	5	8	7	8	9	9	8	10	12	15	15	15	13	10	13	14	12	5	3	2	8.3	14.8	
5-Feb-08	3	5	9	11	13	10	8	11	12	9	10	11	15	16	17	19	23	19	20	22	28	20	20	22	14.6	27.8		
6-Feb-08	17	24	27	25	21	15	9	7	8	7	6	5	11	12	12	14	13	11	12	12	11	11	12	12	13.0	27.3		
7-Feb-08	12	11	13	16	9	14	9	12	7	6	4	6	8	8	7	8	8	15	19	16	7	6	8	12	9.9	19.4		
8-Feb-08	17	16	13	25	23	21	17	30	30	31	28	34	25	22	24	18	24	17	18	17	21	21	16	11	21.6	34.0		
9-Feb-08	14	15	15	16	19	16	16	13	13	14	9	6	7	7	6	4	2	3	9	13	16	17	21	11.5	20.8			
10-Feb-08	24	25	27	30	29	26	27	39	33	29	27	24	21	12	15	12	12	13	10	14	5	5	4	5	19.4	39.3		
11-Feb-08	8	7	6	7	9	13	11	15	13	15	19	18	16	17	13	9	4	4	3	2	6	6	5	5	9.6	18.9		
12-Feb-08	8	7	8	8	8	6	6	8	5	6	4	5	8	13	18	21	20	25	27	24	23	19	14	9	12.5	27.1		
13-Feb-08	9	12	15	20	25	31	30	32	31	25	17	15	10	6	5	4	5	5	7	10	10	6	3	4	13.9	31.6		
14-Feb-08	9	11	13	16	20	18	12	9	8	5	7	9	7	7	12	10	10	9	11	11	8	12	13	14	10.8	20.1		
15-Feb-08	16	11	13	11	12	14	14	13	15	16	14	15	19	20	15	20	13	15	24	25	19	10	9	7	15.0	24.6		
16-Feb-08	9	5	6	6	6	5	5	5	15	15	19	14	14	12	10	10	11	7	8	8	9	11	13	13	9.9	18.5		
17-Feb-08	10	12	14	15	13	10	9	10	7	10	11	9	7	6	7	6	5	5	6	6	7	7	9	9	8.7	14.7		
18-Feb-08	7	5	4	4	5	5	7	5	3	8	9	9	10	11	10	10	9	7	8	7	5	6	4	6.7	11.2			
19-Feb-08	5	5	5	6	4	7	6	5	5	6	9	12	17	21	19	17	14	13	14	15	11	11	7	8	10.0	21.0		
20-Feb-08	9	13	17	11	6	4	8	6	4	5	5	6	5	5	4	5	6	8	8	8	6	9	12	8	7.4	17.3		
21-Feb-08	8	8	11	11	7	3	4	5	5	8	7	3	5	5	6	6	6	8	9	11	7	8	12	10	7.2	12.3		
22-Feb-08	3	5	6	3	2	3	2	3	3	2	4	5	3	6	8	8	7	6	3	4	3	3	3	3	4.0	8.1		
23-Feb-08	3	3	3	4	3	4	3	3	4	3	4	3	4	5	4	4	5	5	4	2	4	5	5	7	4.0	6.7		
24-Feb-08	7	6	5	5	4	9	11	9	10	12	12	10	12	12	12	12	7	11	9	4	4	5	2	4	7.9	12.4		
25-Feb-08	4	4	3	2	2	2	2	2	2	2	6	7	9	11	12	12	13	18	19	17	15	13	13	13	8.4	18.8		
26-Feb-08	10	9	8	5	4	6	5	5	6	7	7	8	6	9	9	9	13	17	15	10	13	15	11	11	8.8	16.5		
27-Feb-08	9	7	8	12	10	8	8	12	11	6	7	10	9	7	8	6	4	5	6	6	5	5	6	4	7.4	12.3		
28-Feb-08	6	7	7	5	6	17	15	9	7	6	11	11	10	9	10	10	10	8	6	8	10	12	11	12	9.2	17.3		
29-Feb-08	13	12	11	10	11	12	17	16	18	18	17	12	14	12	11	15	10	13	12	17	20	19	14	14	14.1	19.6		

1-hr Average	9.2	9.2	9.9	10.6	10.2	10.3	9.8	10.6	10.2	10.3	10.4	10.4	10.6	10.5	11.0	10.9	10.2	10.3	11.3	11.3	10.6	10.1	9.4	8.9
Hourly Max	23.6	25.3	27.3	29.6	29.0	30.8	29.5	39.3	33.4	30.7	27.8	34.0	25.3	21.7	23.9	20.8	23.5	25.3	27.1	24.6	27.8	20.9	20.0	21.9

HOURLY AVERAGE TABLE

Wind Speed (WSs)



Status Flag Characters

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



PAS – Brooks Vector Wind Speed Monthly Summary

Station: Portable-Brooks
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

Summary

Maximum 1-hr Average:	39.2	km/hr	10-Feb	7:00 8:00
Maximum 24-hr Value:	16.2	km/hr	10-Feb	

Calm Time:	0 hrs	0% calms	Operational Time:	696 hrs
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%
Percentile	99	95	75	AverageV

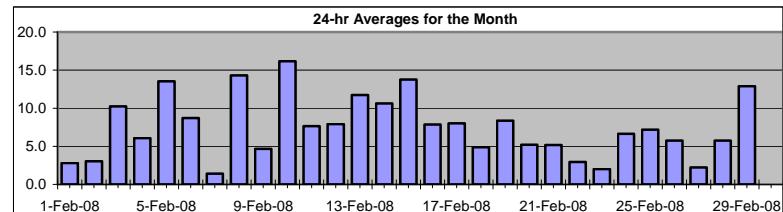
99 95 75 50 25 5 1

29.7 23.4 12.8 8.6 5.3 2.5 1.3

2.8 km/hr

HOURLY AVERAGE TABLE

Wind Speed (WSv)



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max
	Hour Start 0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
1-Feb-08	8	4	6	5	5	5	5	5	3	4	5	5	5	5	4	4	4	7	9	10	9	8	6	5	2.8	10.3
2-Feb-08	5	4	4	5	9	7	6	3	5	4	5	8	7	9	12	10	9	9	11	6	8	7	7	3	3.0	12.0
3-Feb-08	6	8	7	9	8	7	7	9	8	13	13	10	11	13	13	15	15	15	13	10	11	10	11	9	10.2	15.2
4-Feb-08	8	7	5	2	3	4	7	7	8	9	9	8	9	12	15	15	13	10	13	14	12	4	3	2	6.1	14.8
5-Feb-08	1	5	9	10	13	10	8	11	12	8	10	11	15	16	17	19	23	18	20	22	28	20	20	22	13.5	27.7
6-Feb-08	17	24	27	25	21	15	9	7	8	4	6	2	10	9	11	13	13	11	12	12	11	11	12	11	8.7	27.2
7-Feb-08	12	11	13	16	9	14	9	12	6	3	3	5	8	8	7	8	8	15	19	15	7	5	7	12	1.4	19.3
8-Feb-08	17	16	13	25	23	21	10	29	30	31	28	34	25	22	24	18	23	17	18	17	21	21	16	11	14.3	33.8
9-Feb-08	14	15	15	16	19	15	16	13	13	14	9	6	7	7	6	5	4	2	3	8	13	15	17	21	4.7	20.7
10-Feb-08	24	25	27	30	29	26	27	39	33	29	27	24	19	10	12	12	12	13	10	14	4	5	4	4	16.2	39.2
11-Feb-08	8	6	6	7	8	13	11	15	13	15	19	18	16	17	13	8	4	4	2	1	5	6	5	4	7.6	18.9
12-Feb-08	8	6	8	8	7	6	6	8	4	5	3	5	8	13	18	21	20	25	27	24	23	19	14	9	7.9	27.0
13-Feb-08	7	12	15	19	25	31	29	32	31	24	17	15	9	5	5	2	5	5	6	10	10	6	2	4	11.7	31.5
14-Feb-08	9	11	12	16	20	18	12	9	8	5	7	9	7	7	11	10	10	9	9	11	7	12	13	14	10.6	20.1
15-Feb-08	16	11	13	11	12	14	13	13	15	16	14	15	19	20	15	20	13	15	24	25	19	9	9	7	13.8	24.5
16-Feb-08	9	5	6	6	6	5	5	4	15	15	18	14	14	12	10	10	11	7	8	8	9	11	12	13	7.9	17.7
17-Feb-08	10	12	14	15	13	10	9	10	7	10	10	9	7	6	7	6	5	5	6	6	7	9	9	8.0	14.7	
18-Feb-08	7	4	3	4	5	5	3	4	2	8	8	9	10	11	10	10	9	7	8	6	5	6	6	4	4.9	11.1
19-Feb-08	4	4	5	6	2	7	6	4	4	6	9	11	17	21	19	17	14	13	14	14	11	11	6	8	8.4	21.0
20-Feb-08	8	12	17	11	6	3	8	5	4	4	5	6	4	4	2	5	5	7	8	8	6	8	12	8	5.2	17.3
21-Feb-08	8	8	11	11	6	3	3	4	5	8	6	3	5	4	6	6	8	9	9	11	6	7	10	6	5.2	12.3
22-Feb-08	1	5	6	3	1	3	2	3	2	2	3	5	3	5	8	8	7	6	1	2	2	3	3	3	2.9	8.0
23-Feb-08	3	3	3	4	3	4	3	3	4	3	3	3	3	4	4	3	4	5	3	2	4	5	5	7	2.0	6.6
24-Feb-08	7	6	5	5	4	9	11	9	10	12	12	10	12	12	7	11	9	4	4	4	5	1	4	6.6	12.3	
25-Feb-08	4	4	3	1	2	2	2	2	2	6	7	9	11	12	12	13	13	18	19	17	15	13	13	13	7.2	18.7
26-Feb-08	10	9	8	5	4	5	4	5	5	6	7	7	8	6	9	8	9	13	16	15	9	13	15	11	5.8	16.4
27-Feb-08	9	7	8	12	10	8	8	11	11	4	7	10	8	6	8	5	3	5	5	1	4	2	3	2	2.2	12.2
28-Feb-08	6	6	5	4	5	17	15	9	6	6	11	11	10	9	10	10	10	8	6	8	10	12	11	11	5.7	16.8
29-Feb-08	13	12	11	10	11	12	17	16	18	18	17	12	14	12	10	15	10	13	12	17	20	19	14	14	12.9	19.5

1-hr Vector 3.5 3.2 3.3 3.6 3.5 2.1 1.3 1.0 1.0 0.7 1.1 0.9 0.8 1.0 2.1 2.6 2.9 3.3 3.4 3.8 3.7 4.0 4.8 4.4
Hourly Max 23.5 25.3 27.2 29.5 28.9 30.7 29.4 39.2 33.1 30.6 27.6 33.8 25.0 21.5 23.8 20.7 23.3 25.1 27.0 24.5 27.7 20.9 19.9 21.8



PAS – Brooks Wind Direction Monthly Summary

Station: Portable-Brooks
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

HOURLY AVERAGE TABLE

Wind Direction (WD)

Summary

Summary											

Calm Time:	0 hrs						0% calms		Operational Time:		696 hrs											
Calibration Time:	0 hrs								AMD Operational Uptime:		100.0%											
Percentile	99	95	75	50	25	5	1	Average														
	359.5						346.8 267.0 201.4 132.6 10.6 2.4 209 deg															

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	WD Sector	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Feb-08	0:00	4	12	57	44	57	60	74	86	52	35	343	349	348	348	18	62	100	110	126	146	161	161	181	166	78	ENE
2-Feb-08	1:00	163	173	131	20	18	3	355	310	272	264	249	209	200	188	188	183	163	152	140	155	128	118	116	14	163	SSE
3-Feb-08	2:00	360	17	0	8	3	360	358	7	0	8	6	7	8	11	31	33	27	44	35	23	15	20	22	28	17	NNE
4-Feb-08	3:00	39	21	28	41	149	143	154	177	181	182	192	177	140	131	133	133	133	136	137	131	134	218	288	14	140	SE
5-Feb-08	4:00	141	219	207	206	209	203	201	187	206	193	199	187	176	177	168	186	200	218	236	235	220	230	236	241	209	SSW
6-Feb-08	5:00	240	244	247	250	254	264	270	272	267	340	210	240	331	55	125	146	171	190	192	206	206	206	205	210	230	SW
7-Feb-08	6:00	202	197	172	166	219	238	227	210	206	101	106	343	354	340	310	315	339	12	34	26	54	157	199	198	221	SW
8-Feb-08	7:00	203	206	228	252	249	248	320	12	4	2	359	5	360	358	3	357	12	1	360	360	5	5	360	353	346	NNW
9-Feb-08	8:00	360	3	12	15	30	15	17	23	15	15	355	334	331	331	334	348	347	317	211	202	193	183	179	168	8	N
10-Feb-08	9:00	163	159	151	147	143	135	142	155	152	153	151	142	132	114	134	67	85	81	64	65	36	349	341	343	137	SE
11-Feb-08	10:00	360	340	282	295	239	226	219	200	209	205	205	197	191	190	192	198	189	229	272	269	262	249	235	218	216	SW
12-Feb-08	11:00	227	267	289	297	303	296	283	296	274	227	174	178	175	141	156	148	140	137	135	144	169	187	194	166	SSE	
13-Feb-08	12:00	216	334	342	351	359	2	2	5	10	11	5	10	4	321	305	295	222	228	6	7	10	44	325	177	358	N
14-Feb-08	13:00	166	179	190	209	209	201	200	202	212	225	211	212	223	213	203	210	203	203	213	218	203	200	206	204	SSW	
15-Feb-08	14:00	205	206	207	204	207	207	206	213	209	208	211	218	209	211	217	210	228	238	256	258	258	280	277	278	224	SW
16-Feb-08	15:00	349	342	338	326	301	252	247	320	32	41	28	345	326	315	312	308	315	311	302	304	299	296	295	295	326	NNW
17-Feb-08	16:00	302	310	315	314	315	309	303	295	281	291	293	291	289	277	251	248	262	260	240	233	295	310	309	312	294	WNW
18-Feb-08	17:00	304	323	304	251	283	288	329	339	268	210	205	202	210	204	202	201	205	221	219	228	233	222	246	138	230	SW
19-Feb-08	18:00	68	292	292	222	249	89	102	146	85	78	104	105	110	107	107	96	99	108	125	128	128	101	113	109	ESE	
20-Feb-08	19:00	147	184	191	178	168	153	191	217	257	255	305	285	297	288	353	107	144	176	175	171	184	197	206	193	SSW	
21-Feb-08	20:00	201	197	207	210	196	57	142	204	196	204	198	116	86	112	73	85	106	125	120	131	162	146	168	189	160	SSE
22-Feb-08	21:00	192	49	41	22	317	351	339	350	347	351	32	53	62	55	44	39	38	57	353	144	12	332	307	296	29	NNE
23-Feb-08	22:00	309	277	289	289	277	272	306	337	313	312	319	357	349	65	10	350	47	114	144	236	236	253	265	300	309	NW
24-Feb-08	23:00	312	311	335	3	353	9	32	22	21	37	49	51	61	40	40	49	45	22	32	14	357	40	192	281	27	NNE
25-Feb-08	0:00	266	294	284	329	308	342	277	237	216	210	208	192	184	188	187	155	161	172	171	180	194	191	181	176	186	S
26-Feb-08	1:00	171	184	199	245	260	278	308	286	287	259	257	264	268	243	210	163	150	142	145	154	163	149	162	171	188	S
27-Feb-08	2:00	185	161	188	193	199	182	184	191	202	244	1	18	31	44	39	34	157	181	204	214	53	32	269	338	182	S
28-Feb-08	3:00	238	254	332	282	291	9	2	338	326	290	295	293	285	280	272	267	258	239	233	209	212	212	205	200	273	W
29-Feb-08	4:00	181	184	176	193	195	177	188	178	173	186	192	210	240	248	255	244	222	202	216	224	216	200	217	234	205	SSW

Hourly Avg 211 230 231 241 248 261 268 246 263 282 254 274 249 168 162 154 150 156 162 183 197 198 215 217



PAS – Brooks Standard Deviation of Wind Direction Monthly Summary

Station: Portable-Brooks
Station Owner: PAS

Monitoring Dates: February 1, 2008 to March 1, 2008

HOURLY AVERAGE TABLE

Wind Direction (WD)

Summary

Calm Time: 0 hrs 0% calms Operational Time: 696 hrs							
Calibration Time: 0 hrs AMD Operational Uptime: 100.0%							
Percentile 99 95 75 50 25 5 1 73.2 44.5 17.8 9.3 5.8 3.5 2.8							

Determined by the Yamartino 15-min interval calculation

Status Flag Characters

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

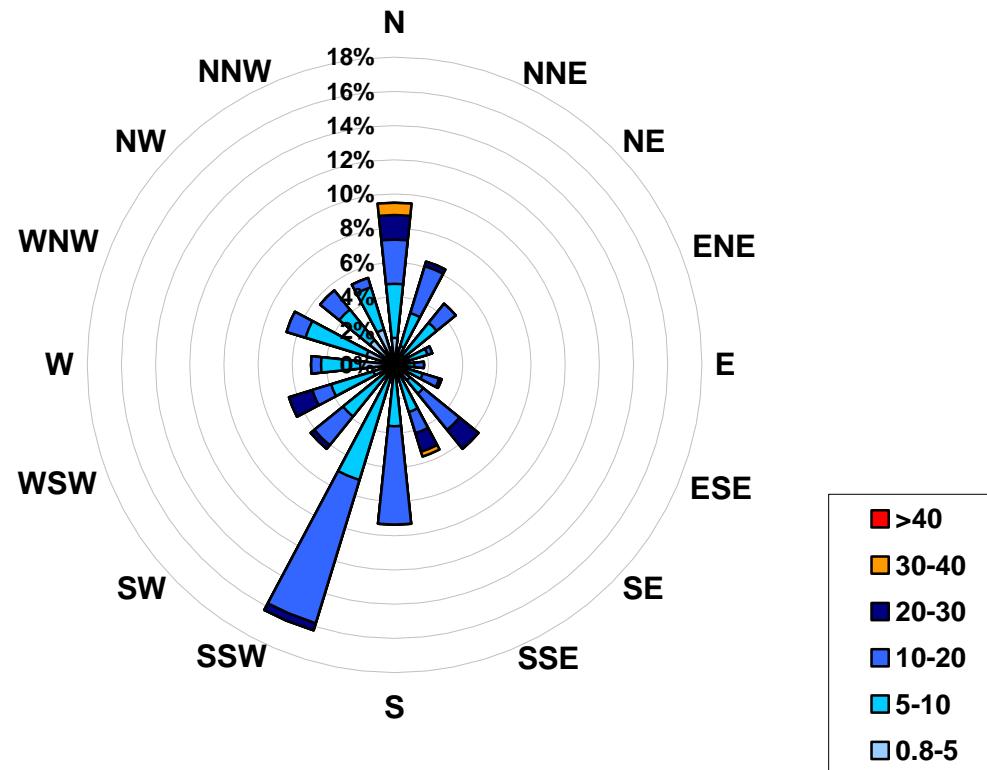
Day Mountain Standard Time

	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-Feb-08	9	15	16	12	9	21	16	19	10	17	22	23	32	22	33	29	8	4	10	5	6	8	10	28	33.1	
2-Feb-08	33	17	39	38	20	10	10	18	20	20	19	6	10	10	9	12	8	7	4	30	12	31	11	44	43.9	
3-Feb-08	11	9	14	6	4	5	5	6	4	6	5	9	8	6	7	5	7	7	8	9	4	5	7	5	13.5	
4-Feb-08	7	9	10	27	22	12	17	8	8	9	9	17	13	6	5	4	4	9	3	3	5	28	20	53	53.2	
5-Feb-08	61	6	6	6	4	6	6	8	5	6	6	11	7	6	6	13	5	18	7	6	3	6	5	6	60.6	
6-Feb-08	4	4	3	4	4	7	7	8	5	61	20	74	37	43	23	23	6	11	5	4	5	6	10	10	74.1	
7-Feb-08	7	8	10	6	14	6	10	6	52	63	29	17	13	12	16	5	9	10	7	8	26	40	12	5	62.8	
8-Feb-08	3	6	19	3	3	4	53	6	5	5	6	5	9	6	5	8	7	9	6	10	7	4	5	8	52.9	
9-Feb-08	6	4	6	7	10	10	6	6	4	8	13	17	16	15	15	18	16	35	26	11	7	5	6	4	34.5	
10-Feb-08	3	3	5	4	5	4	8	3	9	4	6	7	26	29	37	8	11	10	8	16	43	26	23	17	43.2	
11-Feb-08	9	18	14	7	24	12	9	6	8	4	5	4	5	4	5	6	12	25	43	70	43	8	22	50	70.4	
12-Feb-08	7	25	7	14	10	11	8	6	15	14	39	25	14	12	8	3	3	6	5	4	6	7	4	12	38.7	
13-Feb-08	35	10	5	8	5	5	4	4	3	9	8	10	18	23	20	69	26	11	40	9	7	13	41	25	69.4	
14-Feb-08	6	7	8	4	3	3	4	5	8	13	9	7	15	13	5	4	2	5	3	5	11	4	4	4	14.8	
15-Feb-08	3	7	5	6	3	4	21	5	4	6	9	6	4	5	4	6	11	6	5	3	5	30	9	12	29.8	
16-Feb-08	20	23	14	17	18	23	22	50	8	6	17	9	9	7	5	7	5	6	7	5	7	4	4	5	49.9	
17-Feb-08	5	7	3	3	4	6	6	6	10	6	4	9	9	20	13	19	14	7	7	6	20	5	5	5	19.7	
18-Feb-08	5	38	40	25	16	13	53	38	58	9	5	7	5	5	6	6	8	7	11	12	10	9	10	44	57.6	
19-Feb-08	32	41	17	15	61	20	18	25	34	9	8	10	8	3	4	4	4	4	8	9	5	5	42	16	60.8	
20-Feb-08	20	16	3	8	11	45	20	31	17	21	18	24	37	33	69	19	25	18	8	6	8	13	5	13	69.2	
21-Feb-08	10	6	5	4	54	37	20	12	4	19	25	12	39	14	12	10	8	3	36	18	4	15	15	53.9		
22-Feb-08	81	19	8	13	81	13	27	13	22	18	22	12	38	22	9	7	9	9	77	63	67	23	26	19	80.9	
23-Feb-08	33	34	14	9	13	14	26	14	12	23	28	37	45	40	28	67	29	16	42	33	13	11	9	11	67.4	
24-Feb-08	14	4	22	27	19	38	5	5	7	7	6	6	18	7	7	5	16	3	8	16	11	12	82	10	82.1	
25-Feb-08	12	13	18	53	48	42	17	17	18	20	7	10	7	8	8	17	15	5	2	5	4	4	8	4	53.4	
26-Feb-08	6	10	8	14	28	20	32	16	7	12	10	12	10	22	6	23	11	11	3	9	10	4	8	10	31.6	
27-Feb-08	11	21	10	7	14	13	22	11	6	59	8	10	17	22	11	31	73	18	38	93	48	77	55	58	92.5	
28-Feb-08	13	17	48	44	20	21	10	8	11	11	7	7	8	7	7	6	7	9	9	9	8	5	3	7	48.0	
29-Feb-08	5	4	8	10	12	10	4	4	2	6	3	17	6	8	10	4	9	11	20	10	7	7	6	8	19.6	

Hourly Max 81 41 48 53 81 45 53 50 58 63 39 74 45 43 69 69 73 35 77 93 67 77 82 58



1-hr Average Wind Rose (in km/hr) Located at the Portable-Brooks Site for February 2008



Calms:		Frequency Distribution of Wind in km/hr		
		Range	Frequency (hrs)	
0.8	<	5	119	
5	to	10	282	
10	to	20	239	
20	to	30	46	
30	to	40	7	
	>	40	0	
Total Non-Zero Values			696	



Palliser Airshed Society

Passive Monitoring – February 2008



Palliser Airshed Society - Palliser Passive Stations for February 2008
Palliser Passive Monitoring Expansion

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Location Easting	Location Northing	Elevation meter
Duplicates							
6a	Site 6	0.5	38.8	3.6			
6b	Site 6	0.5	36.5	3.1			
16a	Site 16	0.3	34.5	0.4			
16b	Site 16	0.4	38.0	0.5			
1	Site 1	n/a	n/a	n/a	562434	5583139	719
2	Site 2	0.4	45.6	1.8	565416	5616277	
3	Site 3	0.6	45.6	1.7	533794	5675379	779
4	Site 4	0.6	44.2	1.9	554771	5717338	718
5	Site 5	0.6	42.0	2.2	494218	5715862	735
6	Site 6	0.5	37.6	3.3	433039	5673766	818
7	Site 7	0.5	29.9	4.2	400808	5620907	780
8	Site 8	0.8	47.2	3.2	498530	5621839	747
9	Site 9	0.5	47.5	3.8	487701	5591707	763
10	Site 10	0.6	49.2	3.8	478223	5613583	774
11	Site 11 - Brooks	0.7	33.8	8.9	439773	5604548	736
12	Site 12	0.5	38.4	3.6	450287	5587201	726
13	Site 13	0.5	41.3	1.9	464279	5548934	
14	Site 14	0.3	45.9	0.7	493206	5521201	870
15	Site 15	0.4	45.9	0.7	465824	5485742	874
16	Site 16	0.4	36.3	0.5	503827	5446942	903
17	Site 17	0.3	42.2	0.4	557668	5452307	942
18	Site 18 - Christian School Park	0.4	33.6	7.5	526575	5538135	709
19	Site 19 - Monitoring Station	0.6	31.9	8.9	522813	5544137	714
20	Site 20 - Redcliff	0.6	38.1	4.6	517479	5546059	725

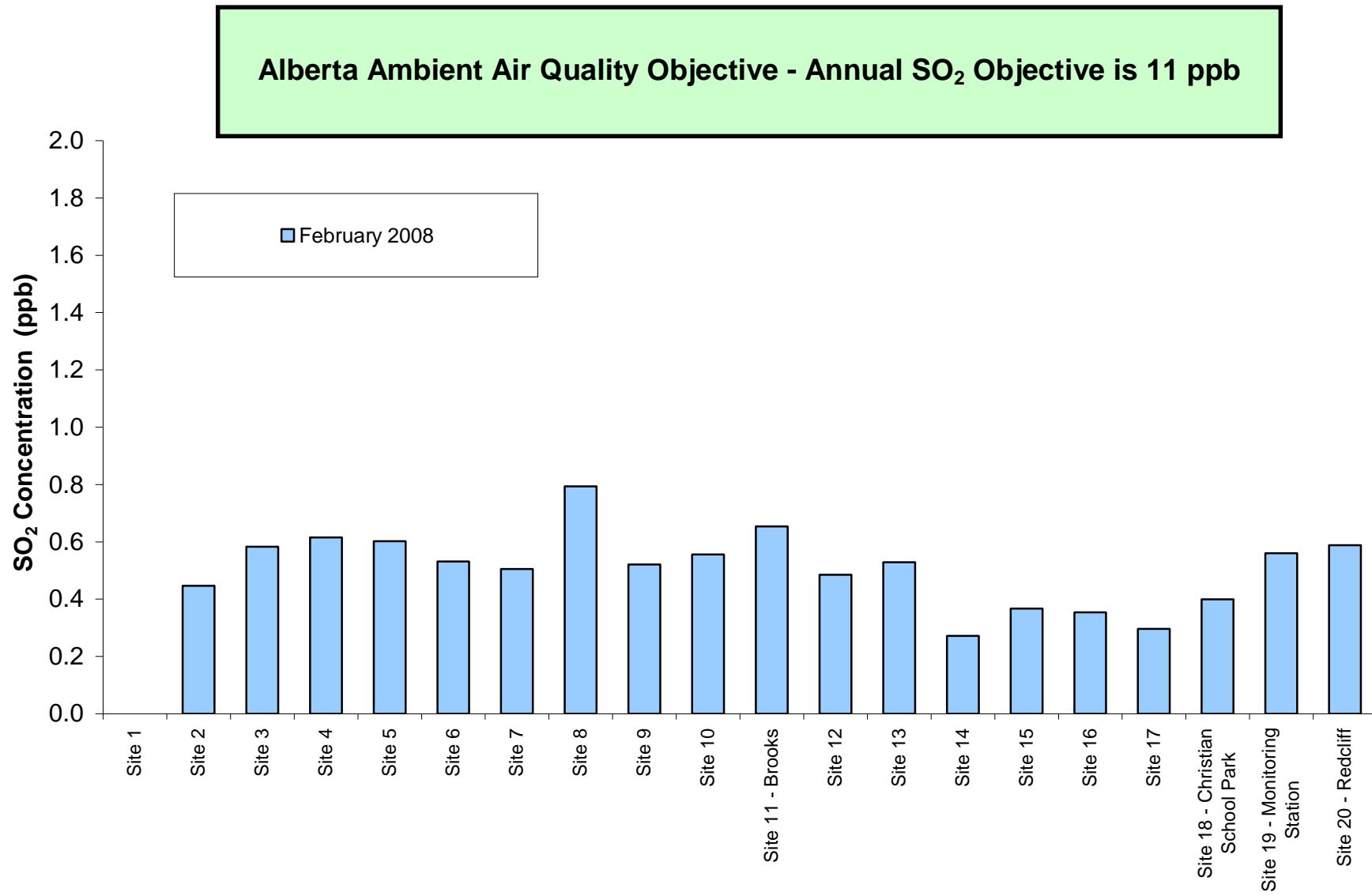


Figure 22. PAS – Sulphur Dioxide Passive Summary Chart

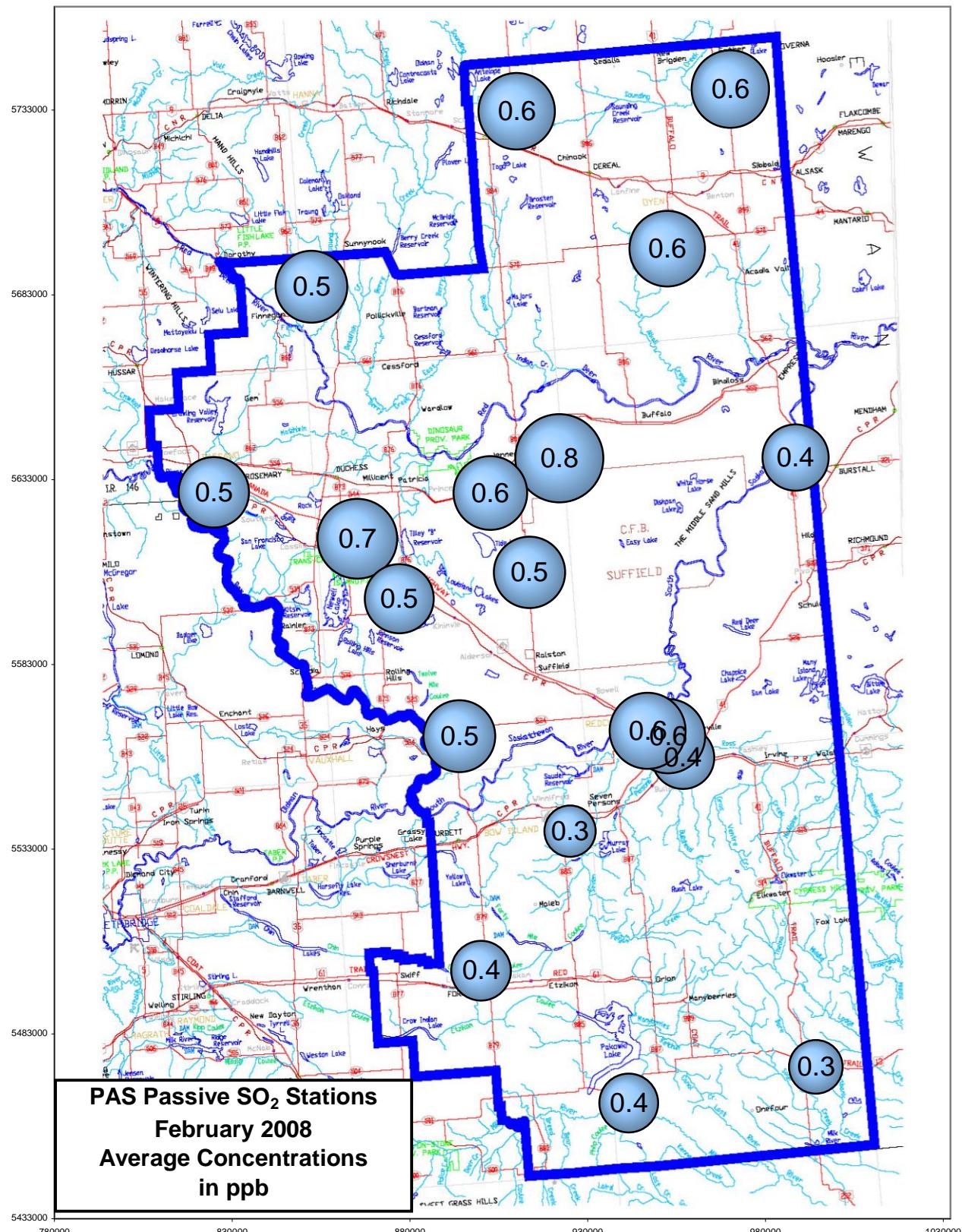


Figure 53. PAS – Sulphur Dioxide Passive Summary Bubble Chart

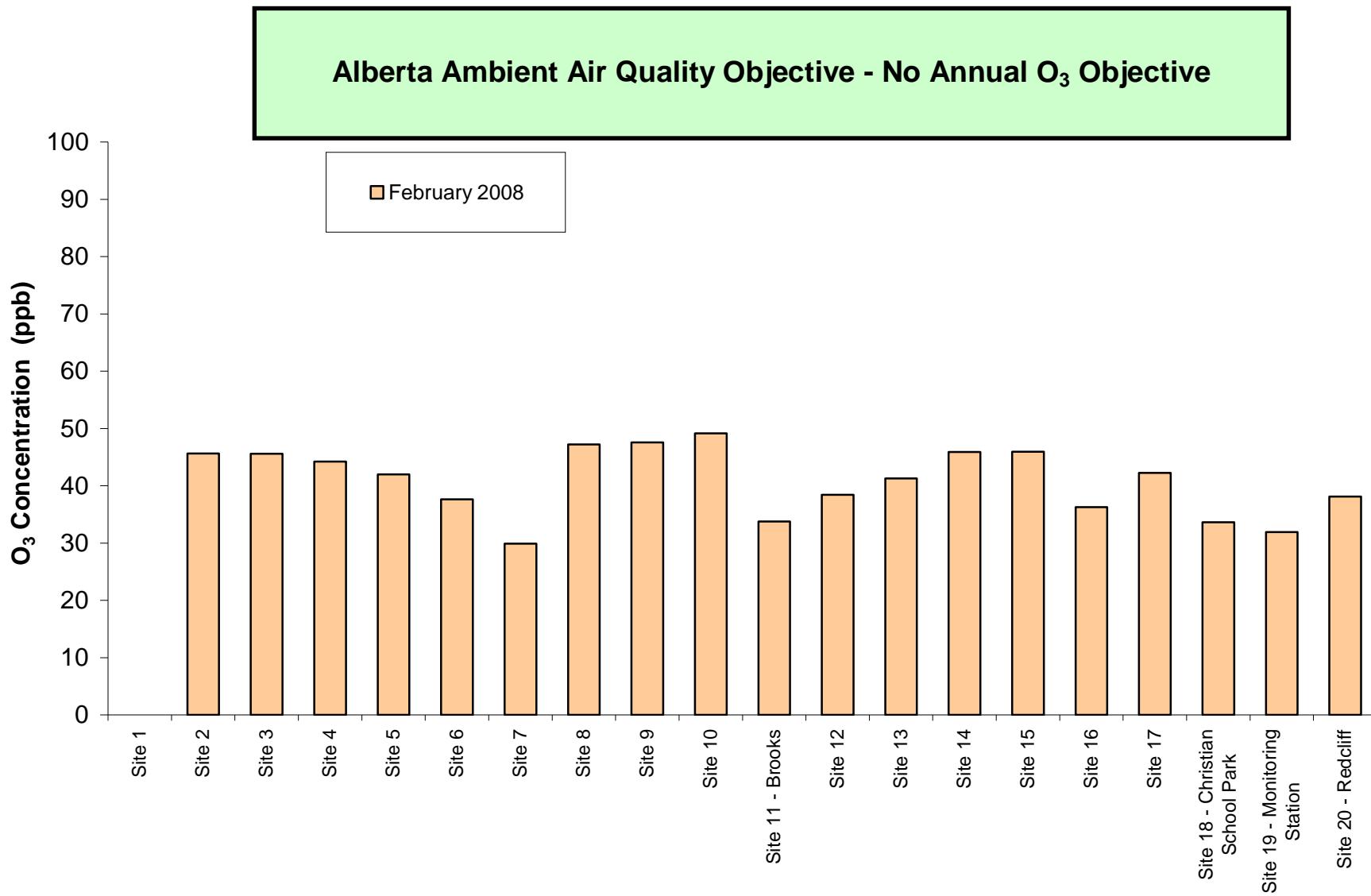


Figure 54. PAS – Ozone Passive Summary Chart

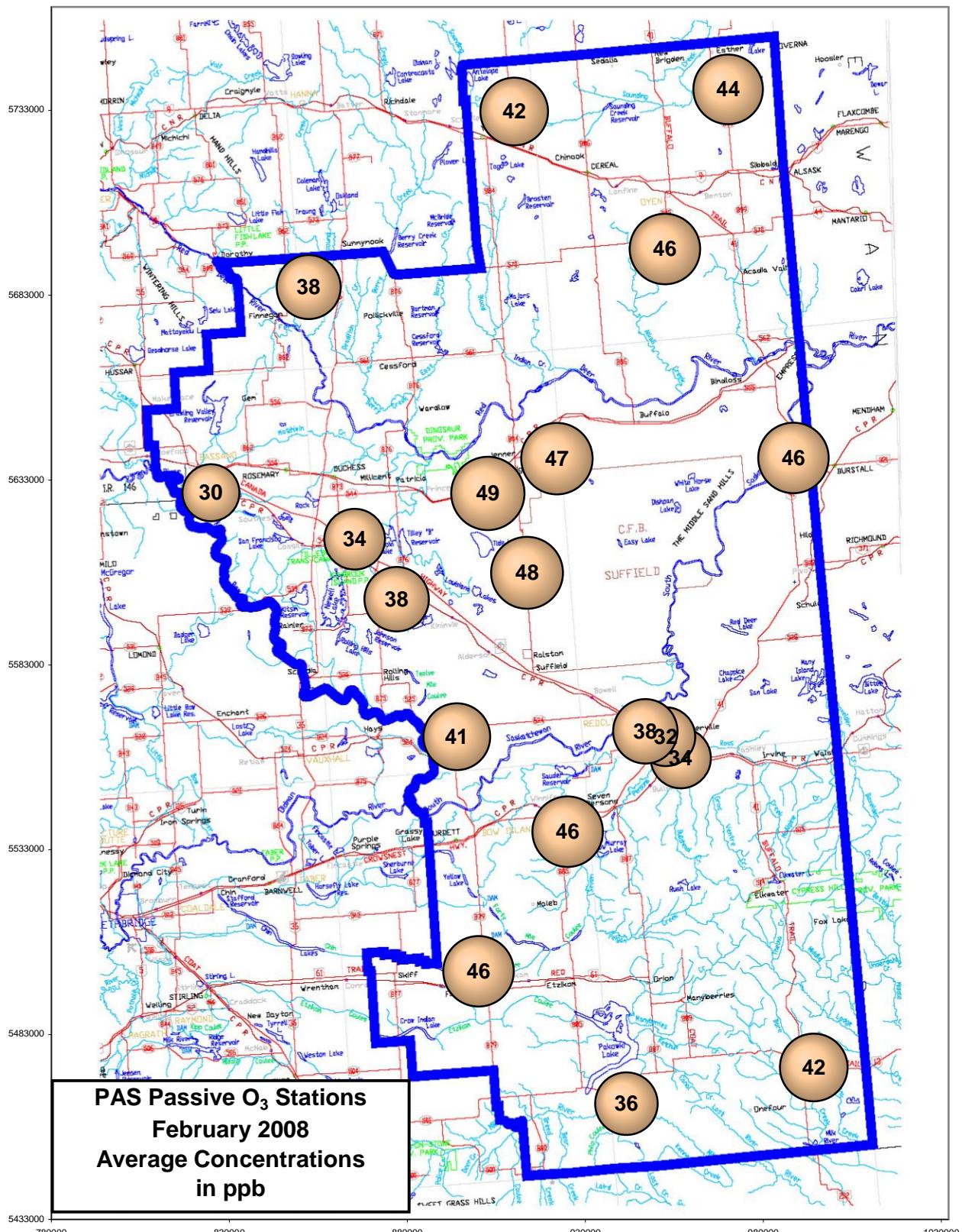


Figure 55. PAS – Ozone Passive Summary Bubble Chart

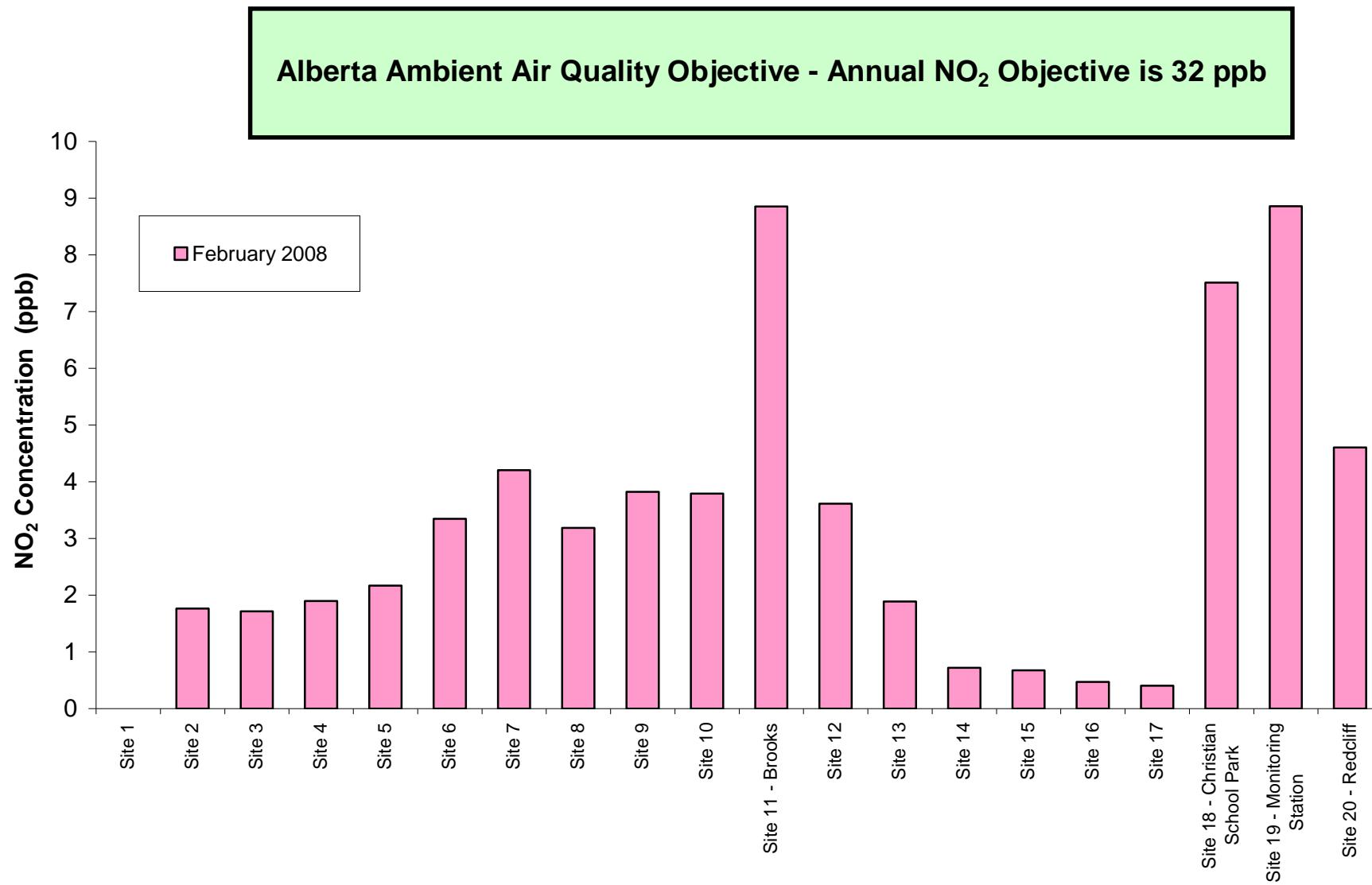


Figure 56. PAS – Nitrogen Dioxide Passive Summary Chart

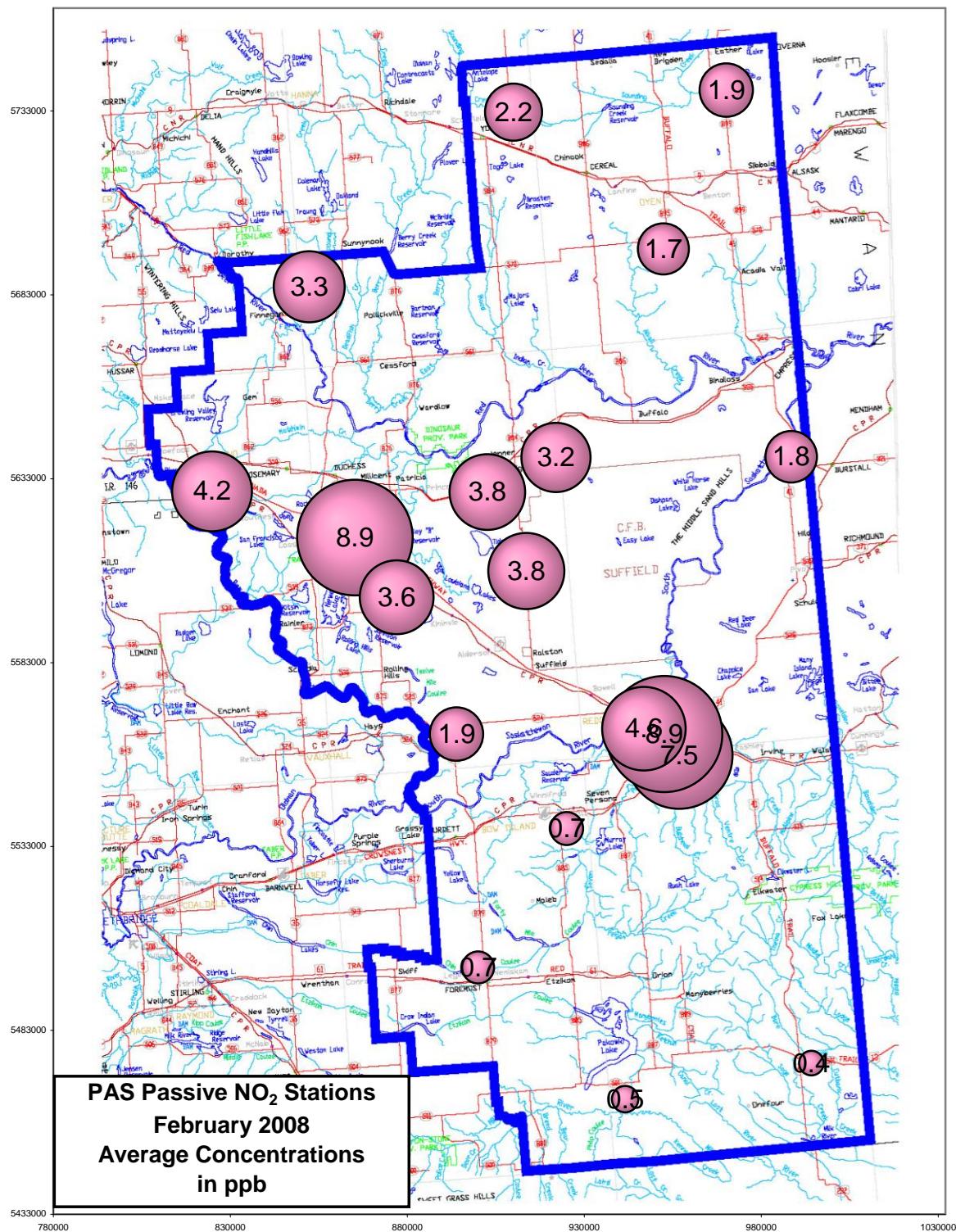


Figure 23. PAS – Nitrogen Dioxide Passive Summary Bubble Chart

Palliser Airshed Society February 2008 - Calibration Reports

Crescent Heights Station: O₃, NO_x, NO, NO₂, THC, CO and PM_{2.5}

Portable-Brooks: O₃, SO₂, and H₂S

Calibration Report



Parameter	O3
Air Monitoring Network	Palliser Airshed

Station Information

Calibration Date	February 20, 2008	Previous Calibration	January 30, 2008
Station Number	101	Station Location	Crescent Heights
Reason:	Routine	Calibration	Removal
			Other:
Start Time (MST)	19:10	End Time (MST)	21:55
Barometric Pressure	27.4 inches Hg	Station Temperature	21.0 Deg C
Calibrator	Environics 6103	Serial Number	2844
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	1.022171	Calculated slope	0.995967
Calculated intercept	-1.000474	Calculated intercept	-0.692125
Analyzer make	TEI 49i	Analyzer serial #	713021144
Concentration range	before	after	
O3 Background	0 - 500 ppb	0 - 500 ppb	
O3 Coeff	0.5 ppb	0.5 ppb	
CellA	1.004 Hz	1.033 Hz	
CellB	74419 Hz	73690 Hz	
Pressure	105907 mmHg	106923 mmHg	
Cell A Flow	692.1 ccm	698.5 ccm	
Cell B Flow	725 ccm	723 ccm	
Bench	709 ccm	708 ccm	
	29.2 Deg C	34.7 Deg C	

Calibration Data

Dilution air flow rate (cc/min)	Ozone Set Point	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4997	0.0	0.0	-0.2	N/A
4997	300.0	316.4	317.3	0.9974
4997	150.0	150.0	153.8	0.9754
4997	50.0	42.8	43.3	0.9895
4997	0.0	0.0	-0.2	0.0000
4997	300.0	316.4	306.6	1.0320
	Average Correction Factor			0.9874

Calculated value of As Found Response: 312.6 ppm Percent Change of As Found: -1.2%

Auto zero	before calibration		after calibration	
	1.2	ppb	1.0	ppb
	288.3	ppb	157.3	ppb

Notes: A small span adjustment performed; calculated O3 input based on GPT portion of NOX calibration.
Biased the internal span setting slightly lower.

Calibration Summary

Parameter	O3	Palliser Airshed
Air Monitoring Network		



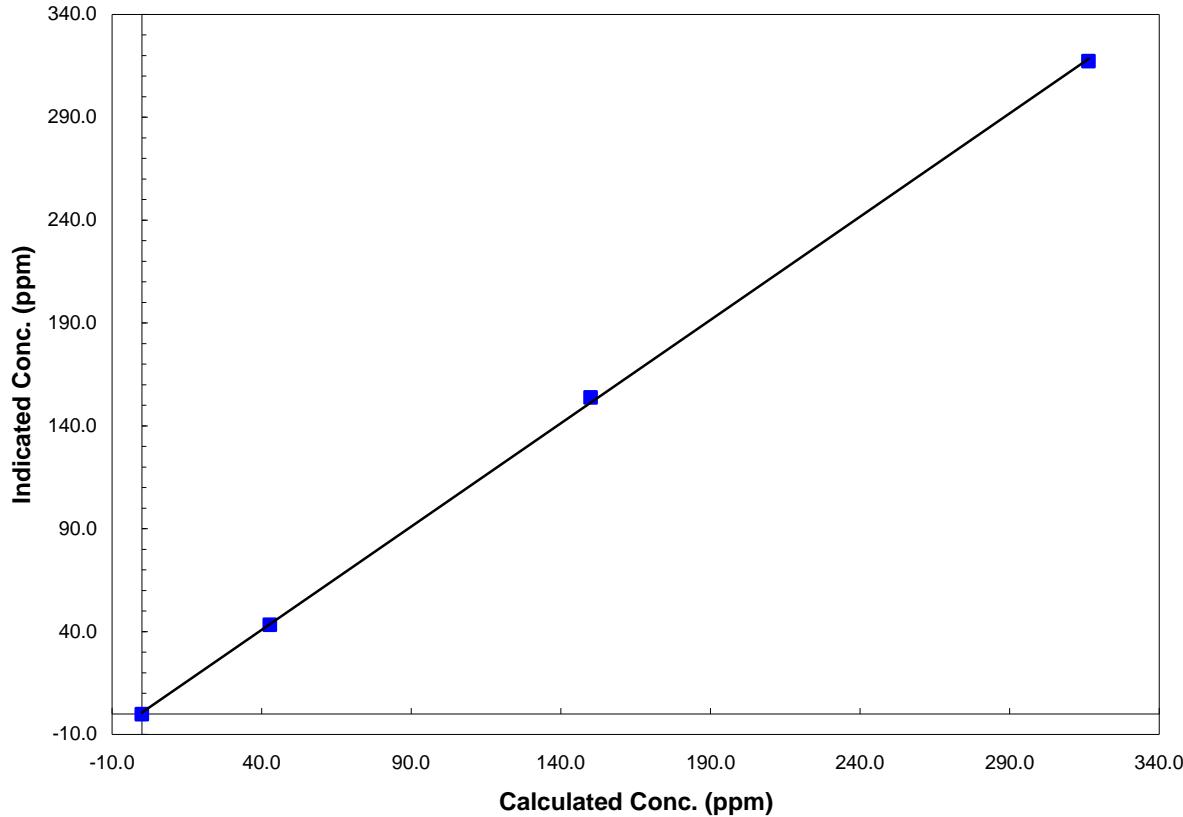
Station Information

Calibration Date	February 20, 2008	Previous Calibration	January 30, 2008
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	19:10	End Time (MST)	21:55
Analyzer make/model	TEI 49i	Analyzer serial #	713021144

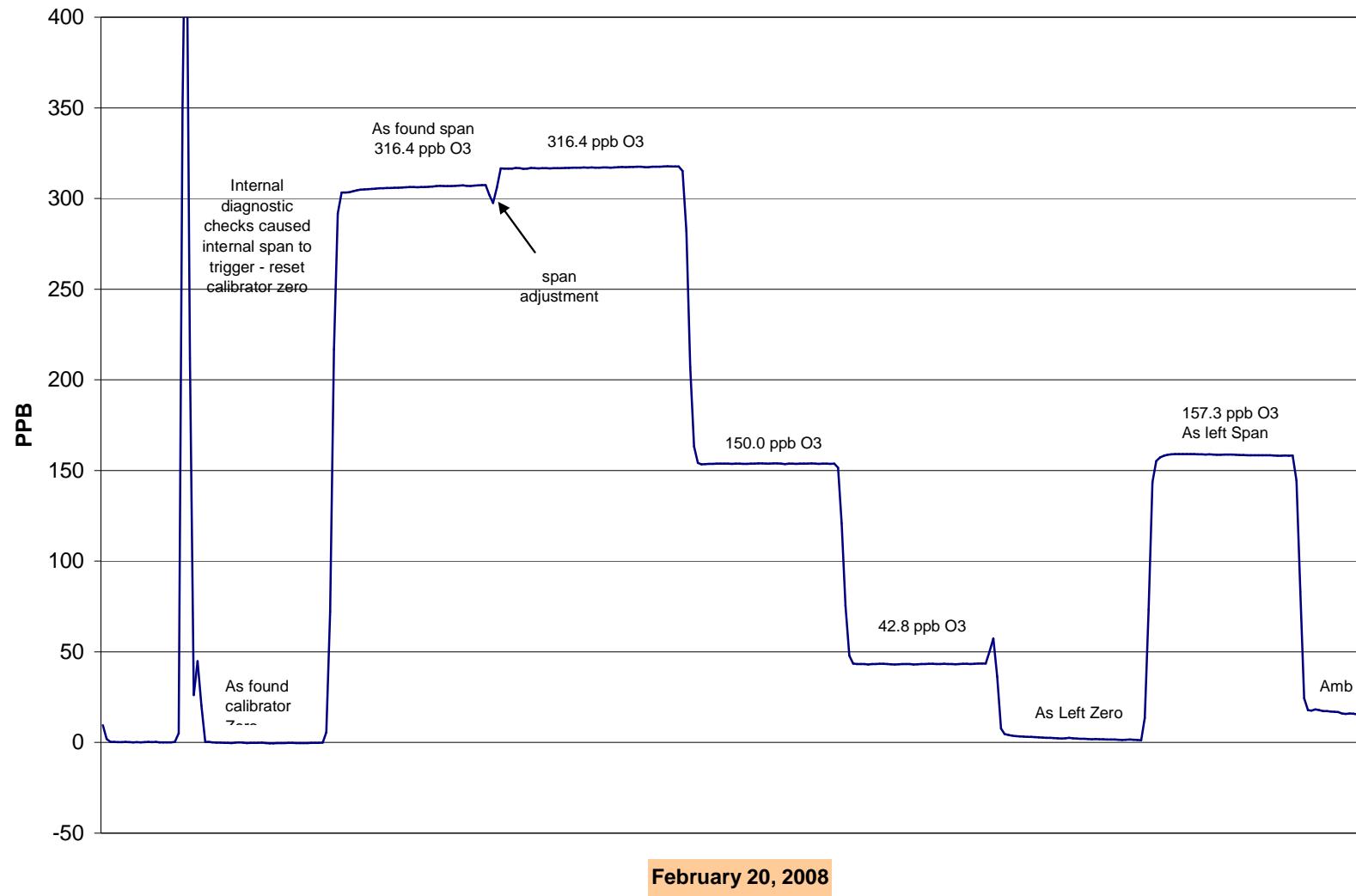
Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
316.4	317.3	0.9974		
150.0	153.8	0.9754	Correlation Coefficient	0.999859
42.8	43.3	0.9895	Slope	0.995967
0.0	-0.2	N/A	Intercept	-0.692125

O3 Calibration Curve



Crescent Heights O3 Calibration



Calibration Report

Parameter

NO_x-NO-NO₂

Air Monitoring Network

Palliser Airshed



Station Information

Calibration Date	February 20, 2008	Previous Calibration	January 29, 2008
Station Number	101	Station Location	Crescent Heights
Reason:	Routine	Installation	Removal
			Other:
Start Time (MST)	15:35	End Time (MST)	19:50
Barometric Pressure	0.915	Atm	20.5
Calibrator	Environics 6103	Serial Number	Deg C
NO Cal Gas Conc	48.9	Cal Gas Expiry Date	2844
NOx Cal Gas Conc	48.9	Cal Gas Serial #	January 29, 2008
			LL-50114

DACS Information

DACS make	FOCUS AP1000	DACS serial No.	45270
	Parameter	NO2	NOx
Before	Data Slope	1.002923	1.007990
	Data Offset	1.144071	2.047685
After	Data Slope	0.997913	0.994813
	Data Offset	0.027442	2.083881
	Channel #	8	6
	Voltage Range	0 - 10 VDC	0 - 10 VDC
			7
			0 - 10 VDC

Analyzer Information

Analyzer make/model	API Model 200E	Analyzer serial #	219
---------------------	----------------	-------------------	-----

Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO offset	-9.0	mV	-9.0	mV
NOx offset	-5.5	mV	-5.5	mV
NO slope	1.237		1.258	
NOx slope	1.227		1.260	
R Cell Temp	49.6	Deg C	50.1	Deg C
PMT Temp	7.0	Deg C	7.1	Deg C
Azero	59.2	mV	58.7	mV
IZS Temp	37.1	Deg C	37.1	Deg C
R Cell Press	4.2	in Hg	4.2	in Hg
Sample Press	26.1	in Hg	26.1	in Hg
O3 Flow	75.0	ccm	75.0	ccm
Sample Flow	455.0	ccm	450.0	ccm

Notes: Adjusted span. All diagnostics appear normal.

Calibration Report



Parameter **NOx-NO-NO₂**
 Air Monitoring Network **Palliser Airshed**

Station Information

Calibration Date: **February 20, 2008** Station Location: **Crescent Heights**

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NOx Correction factor	NO Correction factor
zero	4995	0.00	0.0	0.0	0.0	-0.4	-0.7	-1.3	N/A	N/A
1	4995	39.95	388.0	388.0	0.0	388.7	387.5	0.1	0.9981	1.0010
2	4995	19.96	194.6	194.6	0.0	192.7	191.3	-0.1	1.0097	1.0174
3	4995	9.98	97.5	97.5	0.0	94.2	93.3	-0.6	1.0354	1.0451
AFZ	4995	0.00	0.0	0.0	0.0	-0.4	-0.7	-1.3	0.0000	0.0000
AFS	4995	39.95	388.0	388.0	0.0	378.8	380.4	-2.6	1.0242	1.0198
						Average Correction Factor		1.0144	1.0212	

As Found Concentrations: NO_x= 381.2 NO= 383.5 As Found Percent Change NO_x= -1.7% NO= -1.2%

GPT Calibration Data

Dilution Flow **4995** ccm Source Gas Flow **39.95** ccm

O ₃ Setpoint (ppb)	Indicated NO high point (ppb)	Indicated NO drop conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NOx Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	-0.7	-0.7	0.0	-0.4	-0.7	-1.3	N/A	N/A	N/A	N/A
NO point	384.3	384.3	0.0	386.5	384.3	1.3	0.9944	1.0000	N/A	N/A
300	384.3	67.9	316.4	385.9	67.9	316.4	0.9957	1.0000	1.0001	100.0%
200	384.3	234.3	150.0	386.9	234.3	151.4	0.9933	1.0000	0.9907	100.9%
100	384.3	341.5	42.8	386.4	341.5	43.7	0.9944	1.0000	0.9800	102.0%
				Average Correction Factor		0.9945	1.0000	0.9903	101.0%	

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO ₂	NO	ppb	NOx	NO ₂	NO	ppb
Auto zero	0.4	-0.9	0.6		1.7	-1.5	1.9	
Auto span	284.6	277.3	5.3	ppb	285.8	279.7	5.8	ppb

Calibration Performed By: **Kelly Baragar**

Calibration Summary

Parameter **NO₂**
 Air Monitoring Network **Palliser Airshed**



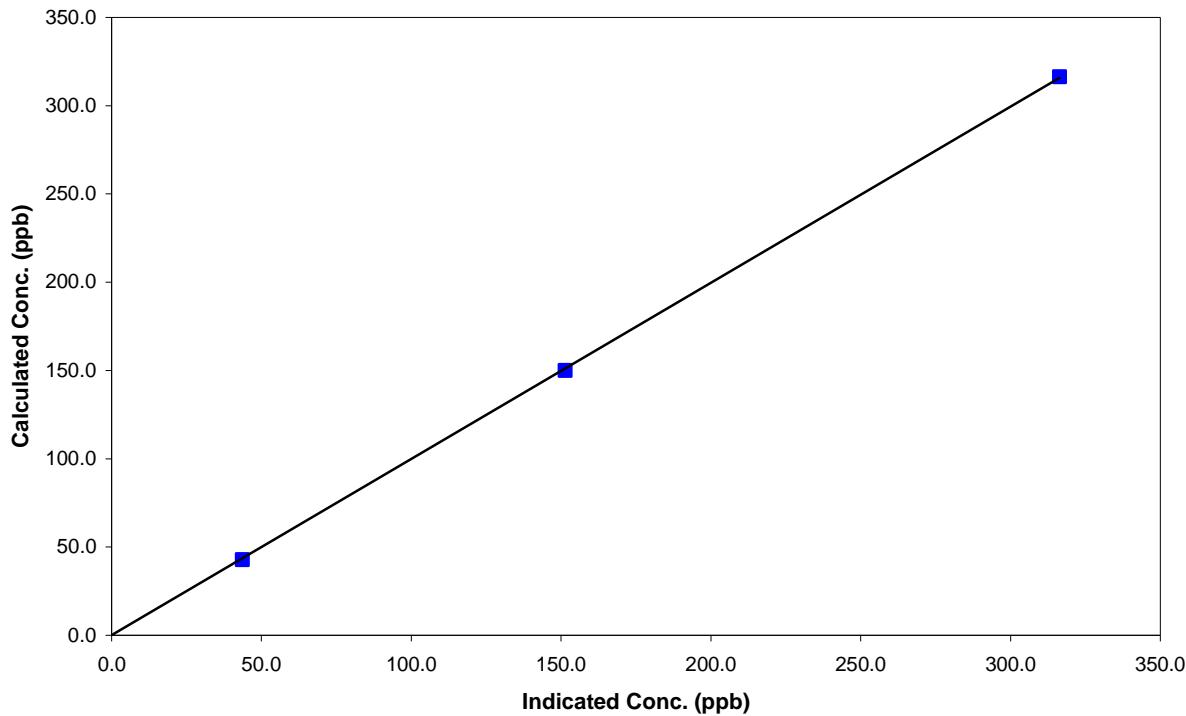
Station Information

Calibration Date	February 20, 2008	Previous Calibration	January 29, 2008
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	15:35	End Time (MST)	19:50
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-1.3	N/A		
316.4	316.4	1.0001	Correlation Coefficient	0.999934
150.0	151.4	0.9907	Slope	0.997913
42.8	43.7	0.9800	Intercept	0.027442

NO₂ Calibration Curve



Calibration Summary

Parameter **NO_x**
 Air Monitoring Network **Palliser Airshed**



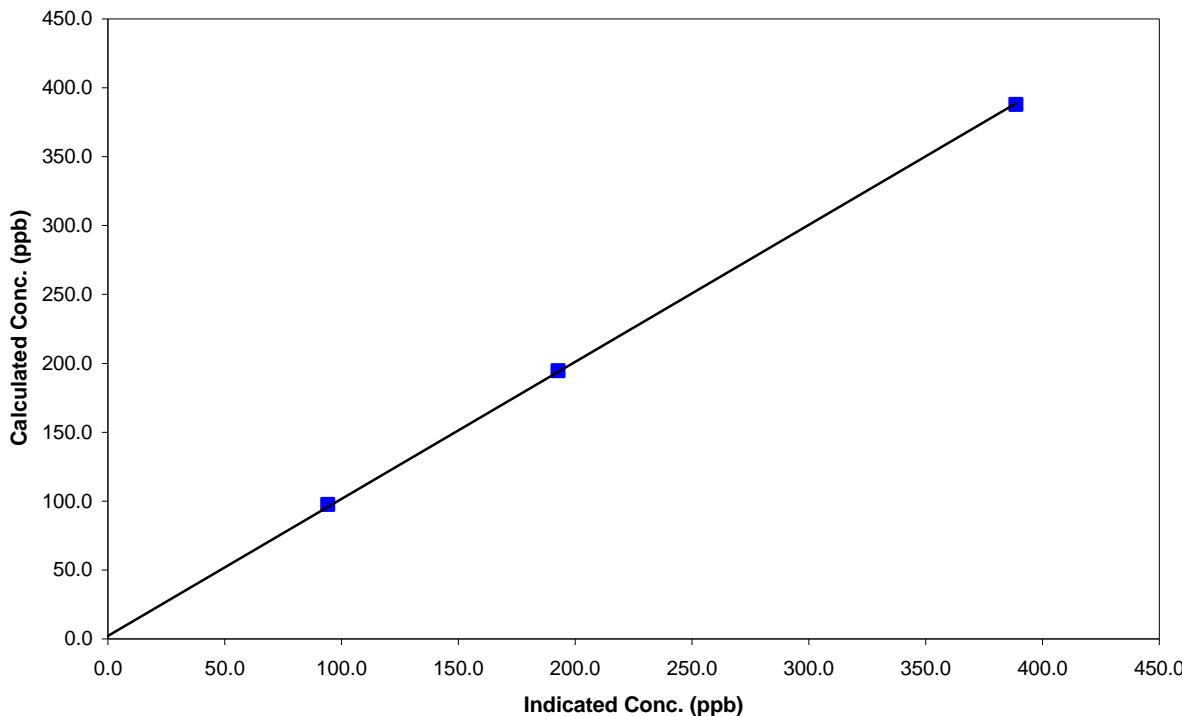
Station Information

Calibration Date	February 20, 2008	Previous Calibration	January 29, 2008
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	15:35	End Time (MST)	19:50
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.4	N/A	Correlation Coefficient	0.999913
388.0	388.7	0.9981		
194.6	192.7	1.0097		
97.5	94.2	1.0354		
			Slope	0.994813
			Intercept	2.083881

NOx Calibration Curve



Calibration Summary

Parameter	NO
Air Monitoring Network	Palliser Airshed



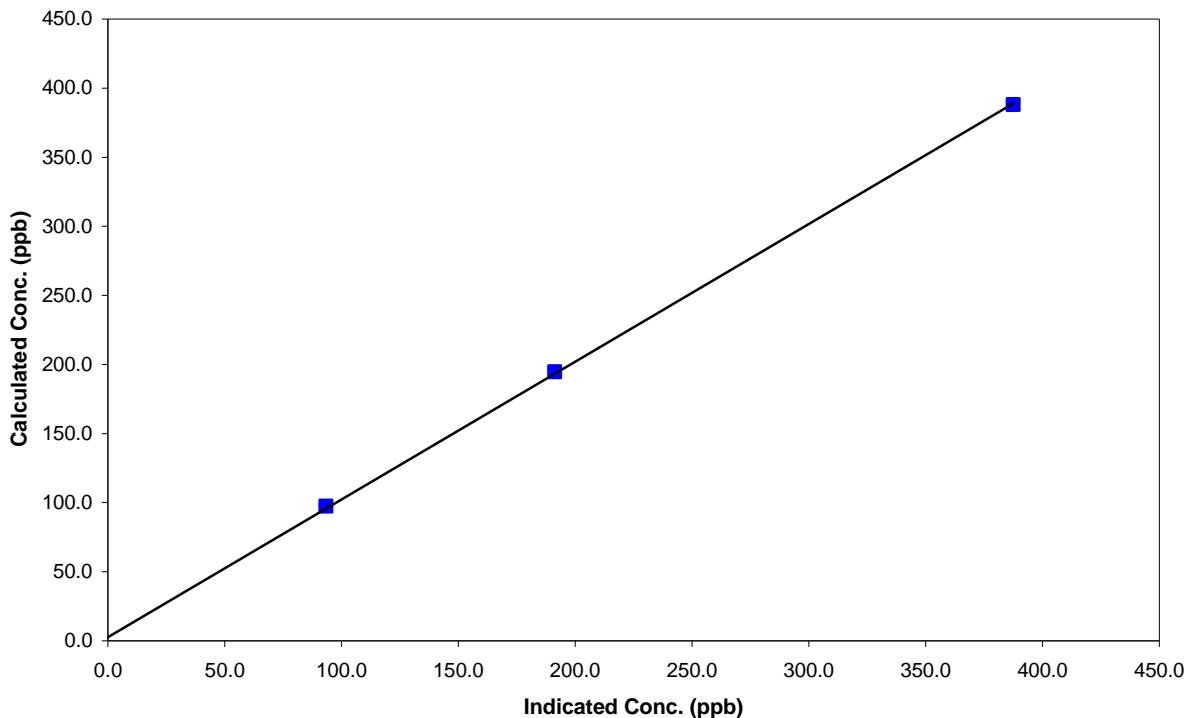
Station Information

Calibration Date	February 20, 2008	Previous Calibration	January 29, 2008
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	15:35	End Time (MST)	19:50
Analyzer make	API Model 200E	Analyzer serial #	219

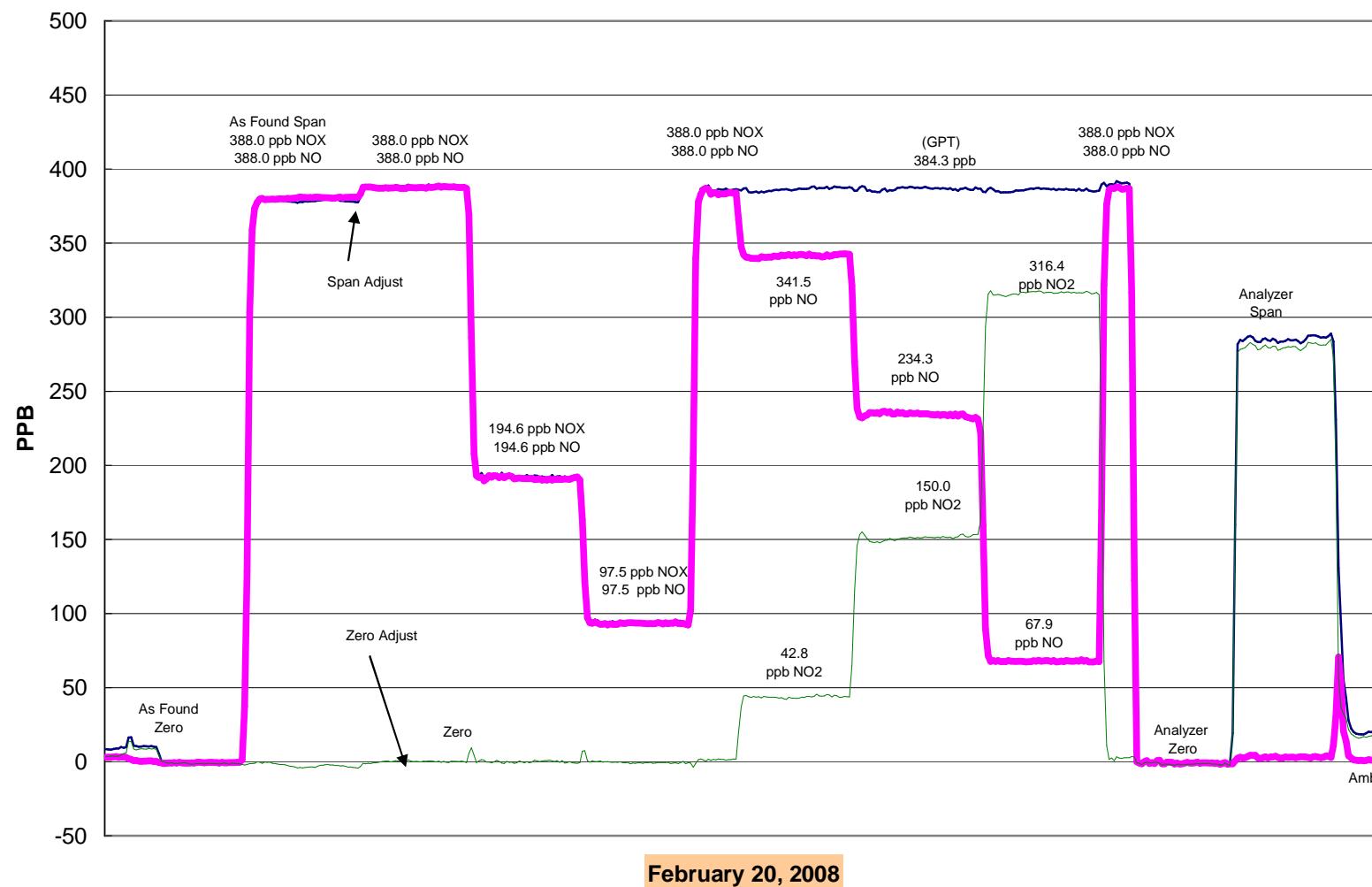
Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.7	N/A		
388.0	387.5	1.0010	Correlation Coefficient	0.999878
194.6	191.3	1.0174	Slope	0.996867
97.5	93.3	1.0451		
			Intercept	2.677258

NO Calibration Curve



Crescent Heights NOx Calibration



Calibration Report



Parameter	THC		Air Monitoring Network	Palliser Airshed																									
Station Information																													
Calibration Date	February 29, 2008		Previous Calibration	January 29, 2008																									
Station Number	101		Station Location	Crescent Heights																									
Reason:	Routine	Install	Removal	Other:																									
Start Time (MST)	12:20		End Time (MST)	16:45																									
Barometric Pressure	27.3	inches Hg	Station Temperature	20.0	Deg C																								
Calibrator	Dasibi 5008		Serial Number	723																									
Cal Gas Concentration	700 ppm CH ₄ / 301 ppm C ₃ H ₈		Cal Gas Certification	05-Sep-03																									
Cal Gas CH4 equiv	1527.75	ppm	Cal Gas Cylinder #	ALM030358																									
DACS make	Focus AP1000		DACS serial No.	45270																									
DACS voltage range	0 - 10 volt		DACS channel #	9																									
	Before			After																									
Calculated slope	1.026208		Calculated slope	1.008656																									
Calculated intercept	0.045243		Calculated intercept	-0.006346																									
Analyzer make	TEI 51C-LT		Analyzer serial #	0407505596																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">before</th> <th style="text-align: center;">after</th> <th style="text-align: center;"></th> <th style="text-align: center;"></th> </tr> </thead> <tbody> <tr> <td>0 - 50</td><td>ppm</td><td>0 - 50</td><td>ppm</td></tr> <tr> <td>5.74</td><td>PSI</td><td>5.75</td><td>PSI</td></tr> <tr> <td>12558</td><td>raw</td><td>12033</td><td>raw</td></tr> <tr> <td>1591</td><td>raw</td><td>1282</td><td>raw</td></tr> <tr> <td>-327</td><td>Volts</td><td>-327</td><td>Volts</td></tr> </tbody> </table>						before	after			0 - 50	ppm	0 - 50	ppm	5.74	PSI	5.75	PSI	12558	raw	12033	raw	1591	raw	1282	raw	-327	Volts	-327	Volts
before	after																												
0 - 50	ppm	0 - 50	ppm																										
5.74	PSI	5.75	PSI																										
12558	raw	12033	raw																										
1591	raw	1282	raw																										
-327	Volts	-327	Volts																										

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)
5000	0.00	0.00	0.01	N/A
5000	80.00	24.06	23.88	1.0073
5000	40.00	12.13	11.97	1.0130
5000	10.10	3.08	3.09	0.9955
5000	0.00	0.00	-0.12	As Found Zero
5000	80.00	24.06	24.86	As Found Span
Average Correction Factor				1.0053

Calculated value of As Found Response: 25.680 ppm Percent Change of As Found: -6.7%

Auto zero	before calibration		after calibration	
	-0.09	ppm	-0.03	ppm
	19.75	ppm	19.85	ppm

Notes: Analyzer response variation noted after H₂ cylinder replacement (shortly after as found capture).
Performed zero and span adjustments.

Calibration Performed By: Kelly Baragar

Calibration Summary



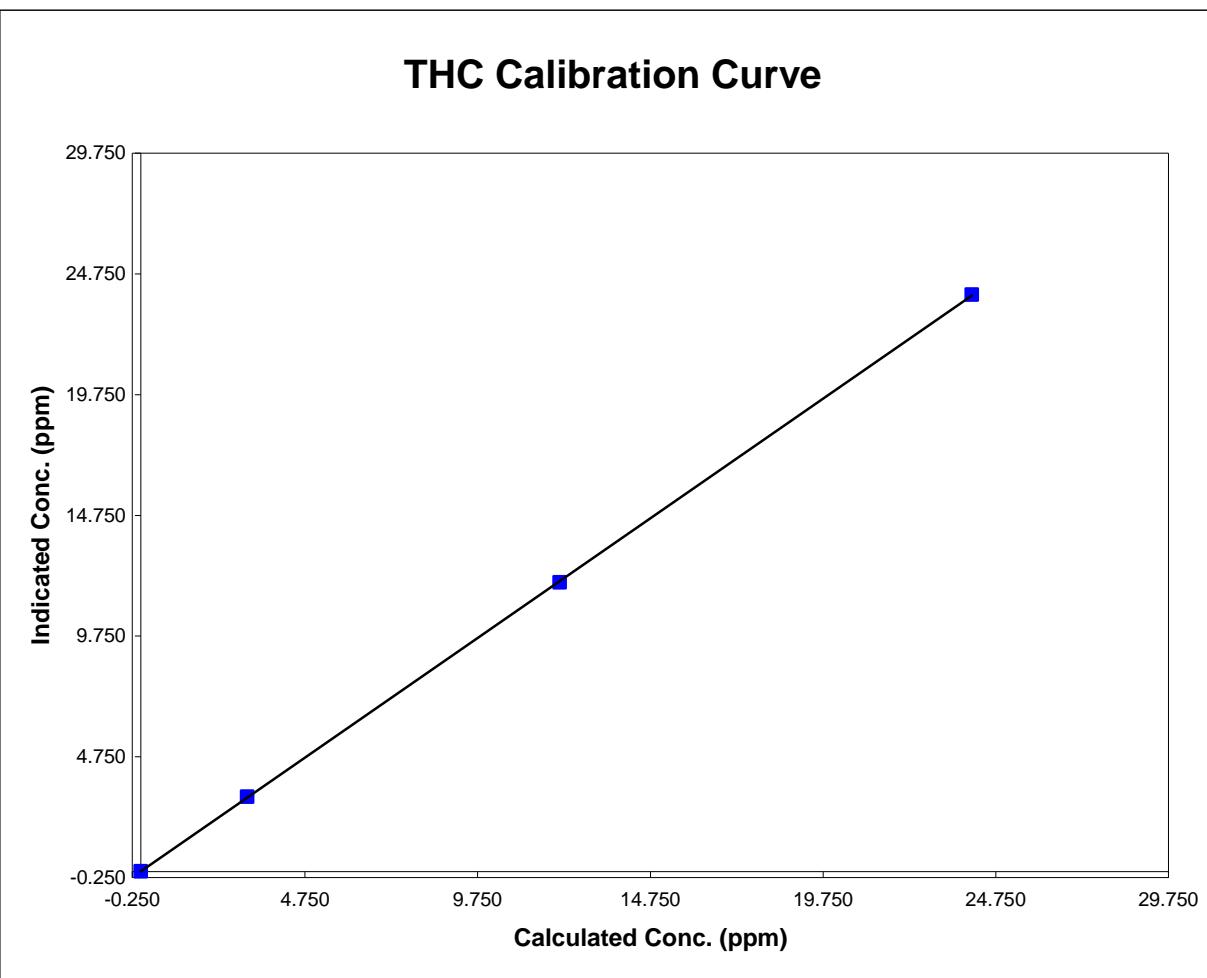
Parameter	THC	Palliser Airshed	FOCUS AIR QUALITY MONITORING
Air Monitoring Network	Station Information		
Calibration Date	February 29, 2008	Previous Calibration	January 29, 2008
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	12:20	End Time (MST)	16:45
Analyzer make/model	TEI 51C-LT	Analyzer serial #	0407505596

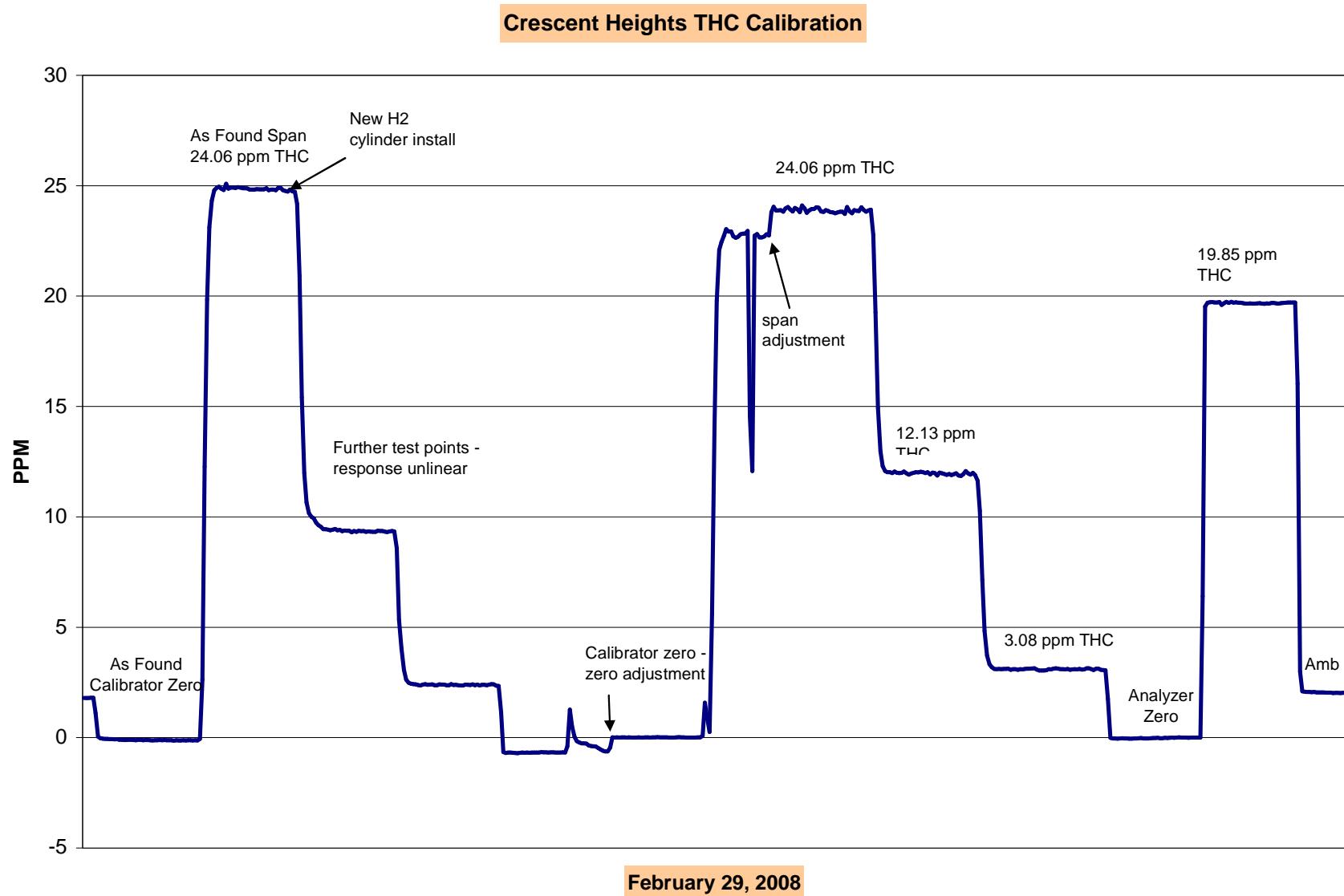
Station Information

Station Information			
Calibration Date	February 29, 2008	Previous Calibration	January 29, 2008
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	12:20	End Time (MST)	16:45
Analyzer make/model	TEI 51C-LT	Analyzer serial #	0407505596

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.006	N/A		
24.059	23.884	1.0073	Correlation Coefficient	0.999985
12.125	11.969	1.0130	Slope	1.008656
3.080	3.094	0.9955		
			Intercept	-0.006346





Calibration Report



Parameter **CO**
Air Monitoring Network **Palliser**

Station Information

Calibration Date	February 21, 2008	Previous Calibration	January 30, 2008
Station Number	101	Station Location	Crescent Heights
Reason:	Routine	Install	Removal
			Other:
Start Time (MST)	8:15	End Time (MST)	10:26
Barometric Pressure	27.28 in Hg	Station Temperature	20.0 Deg C
Calibrator	Environics 6103	Serial Number	2844
Cal Gas Conc	2998 ppm	Cal Gas Expiry Date	3/14/2008
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 1 volt	DACS channel #	11
	<u>Before</u>		<u>After</u>
Calculated slope	1.031211	Calculated slope	0.997044
Calculated intercept	-0.407186	Calculated intercept	0.090744
Analyzer make	TEI Model 48C	Analyzer serial #	436609887
Concentration range	before	after	
CO coefficient	0 - 50 ppm	0 - 50 ppm	
CO bkg setting	1.106	1.106	
Lamp ratio	3.56	3.56	
Lamp intensity	1.138325	1.138325	
Sample Flow	199960 Hz	199960 Hz	
	1.008 LPM	1.008 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)
3996	0.00	0.00	0.00	N/A
3996	49.94	37.01	37.06	0.9986
3996	29.96	22.31	22.26	1.0022
3996	9.96	7.45	7.28	1.0233
3996	0.00	0.00	0.00	N/A
3996	49.94	37.01	37.06	0.9986
Average Correction Factor				1.0080

Calculated value of As Found Response: 37.808 ppm Percent Change of As Found: -2.2%

Auto zero	before calibration		after calibration	
	-0.61	ppm	0.12	ppm
Auto span	19.08	ppm	19.32	ppm

Notes: No adjustments or maintenance performed.

Calibration Performed By: Kelly Baragar

Calibration Summary



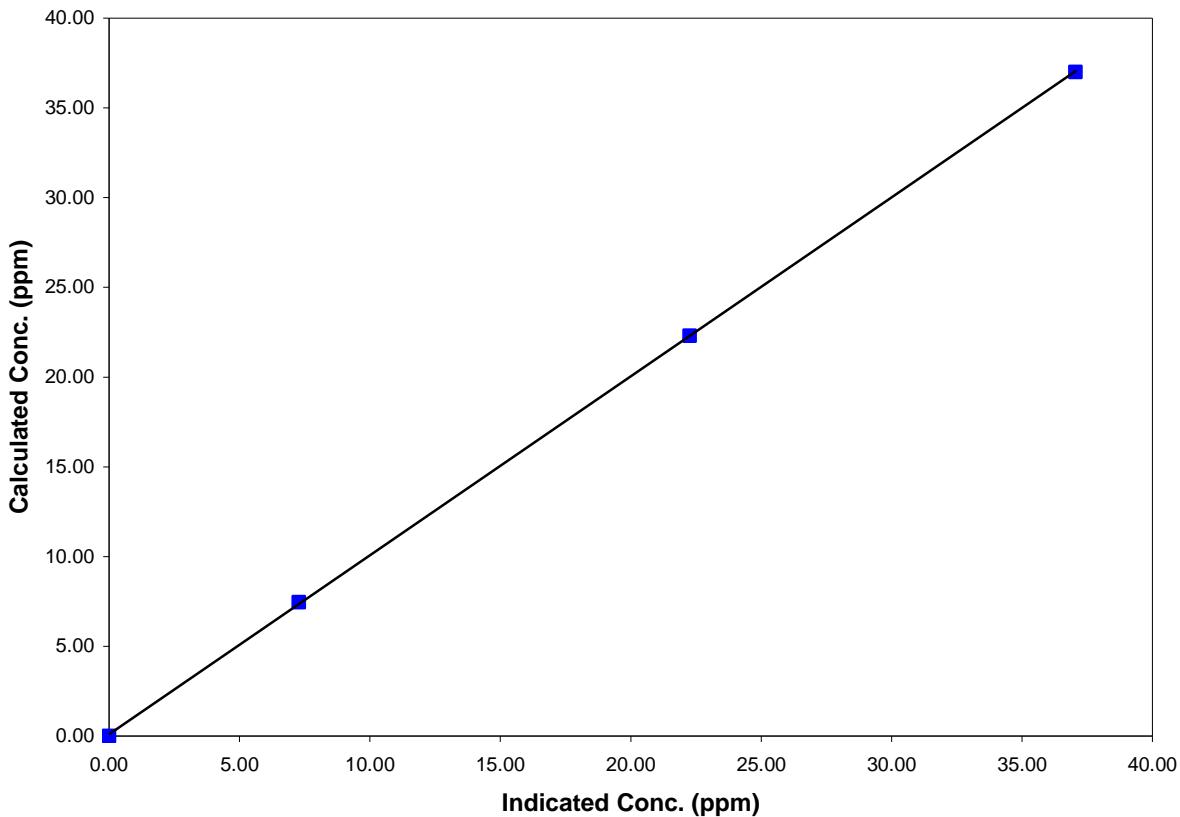
Parameter **CO**
 Air Monitoring Network **Palliser**

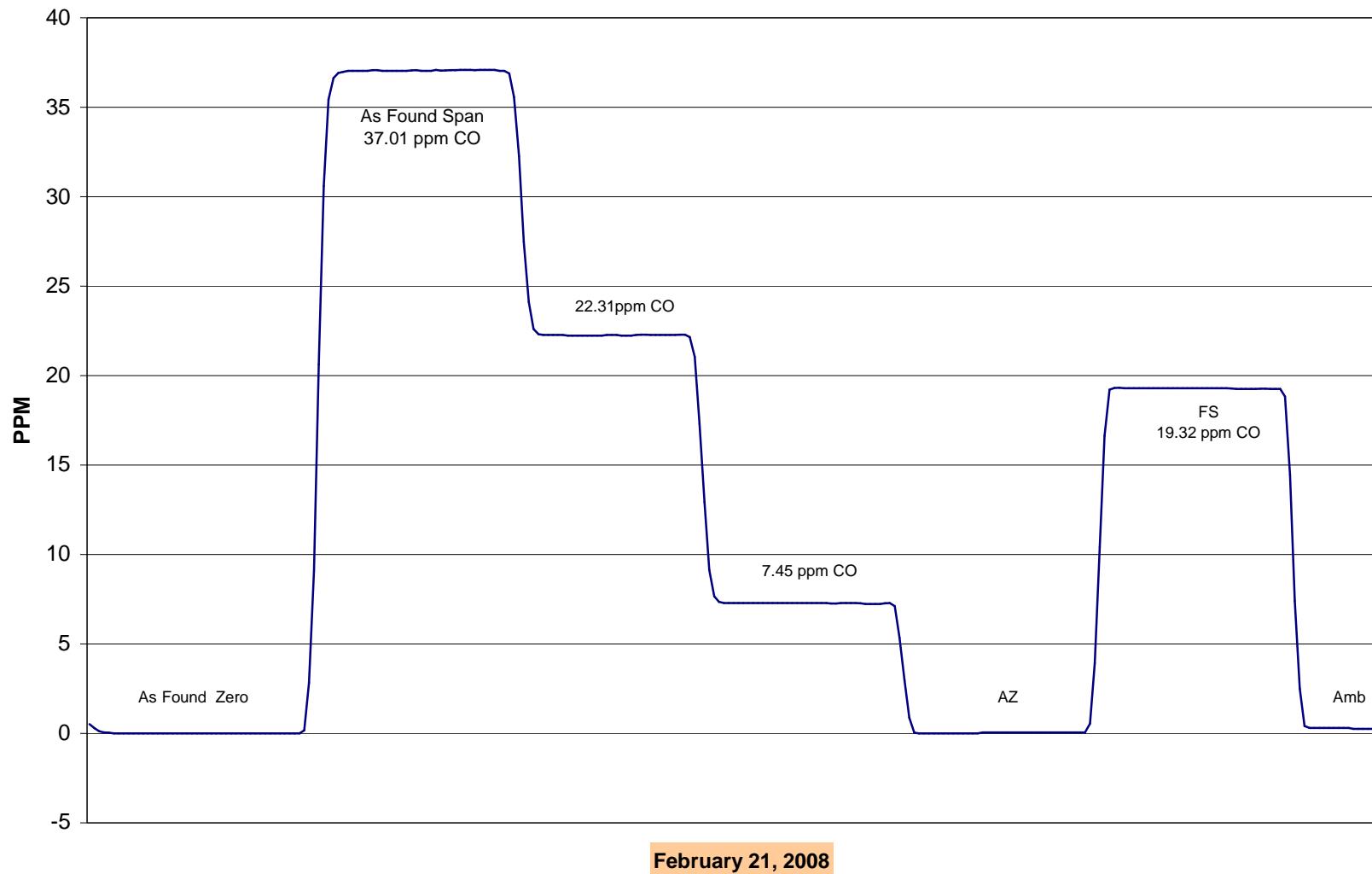
Station Information			
Calibration Date	February 21, 2008	Previous Calibration	January 30, 2008
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	8:15	End Time (MST)	10:26
Analyzer make/model	TEI Model 48C	Analyzer serial #	436609887

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.00	0.00	N/A		
37.01	37.06	0.9986	Correlation Coefficient	0.999975
22.31	22.26	1.0022	Slope	0.997044
7.45	7.28	1.0233	Intercept	0.090744

CO Calibration Curve



Crescent Heights CO Calibration

Calibration Report



Parameter

O3

Air Monitoring Network

PAS

Station Information

Calibration Date	February 21, 2008	Previous Calibration	January 17, 2008
Station Number	110	Station Location	Rover - Brooks
Reason:	Routine	Install	Removal
			Other:
Start Time (MST)	15:00	End Time (MST)	17:45
Barometric Pressure	27.5 inches Hg	Station Temperature	20.0 Deg C
Calibrator	Environics 6103	Serial Number	2844
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45265
DACS voltage range	0 - 1 volt	DACS channel #	7
	Before		After
Calculated slope	0.966191	Calculated slope	1.008030
Calculated intercept	-1.769017	Calculated intercept	-3.042847
Analyzer make	API Model 400E	Analyzer serial #	331
Concentration range	before	after	
Offset	0 - 500 ppb	0 - 500 ppb	
Slope	-11.0 ppb	-10.5 ppb	
Lamp measure	1.038 mV	0.988 mV	
Lamp Reference	4479.1 mV	4328.7 mV	
Pressure	4478.9 mV	4329.8 mV	
Sample Flow	26.1 inches Hg	26.5 inches Hg	
Sample temp	670 ccm	636 ccm	
	34.8 Deg C	37.0 Deg C	

Calibration Data

Dilution air flow rate (cc/min)	Ozone Set Point	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4996	0.0	0.0	2.2	N/A
4996	300.0	316.4	316.1	1.0012
4996	150.0	150.0	153.6	0.9763
4996	50.0	42.8	45.4	0.9437
4996	0.0	0.0	2.2	As Found Zero
4996	300.0	316.4	325.8	As Found Span
		Average Correction Factor	0.9737	

Calculated value of As Found Response:

310.9 ppm

Percent Change of As Found: -1.7%

Auto zero	before calibration		after calibration	
	3.0 ppb		2.5 ppb	
	419.1 ppb		199.2 ppb	

Notes: A small span adjustment was performed. Adjusted internal settings to generate a smaller internal span (from 420 ppb to 200 ppb).

All calculated concentrations based on GPT portion of NOX cal done at CH on Feb 20.

Calibration Performed By: Kelly Baragar

Calibration Summary



Parameter **O3**
Air Monitoring Network **PAS**

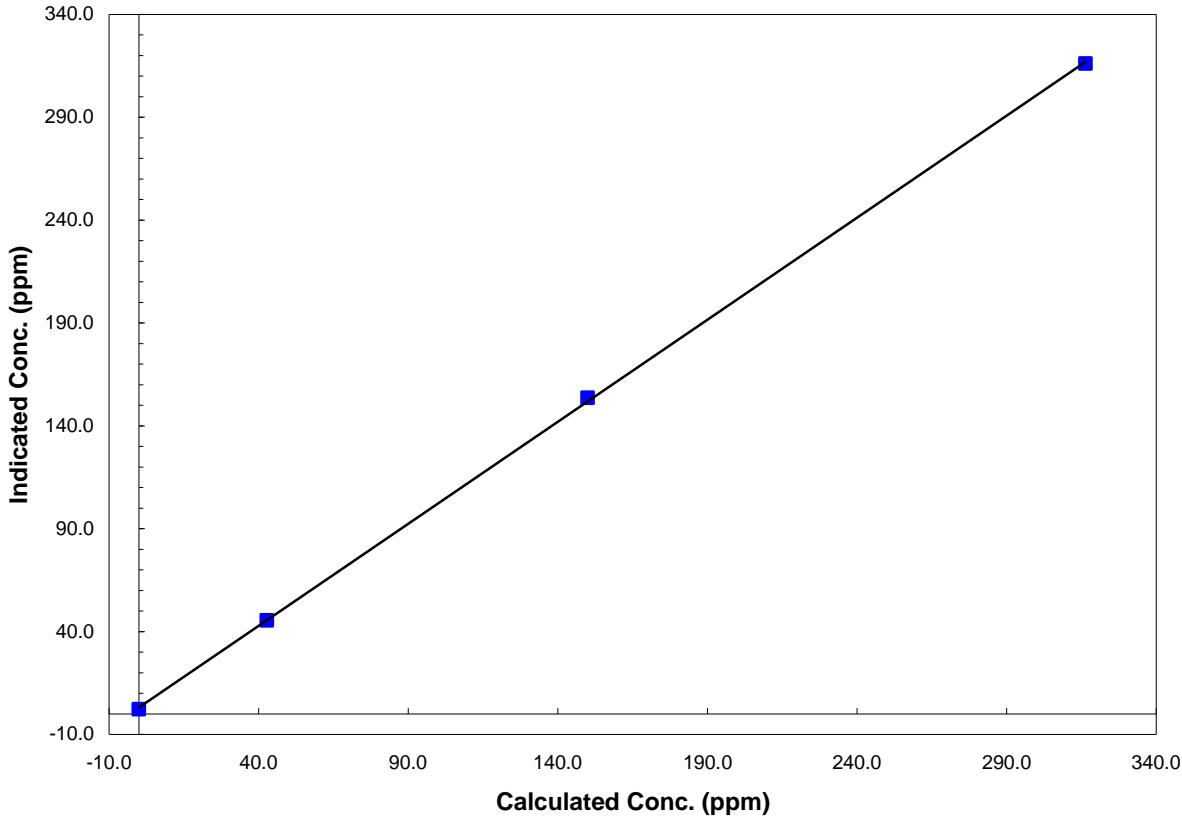
Station Information

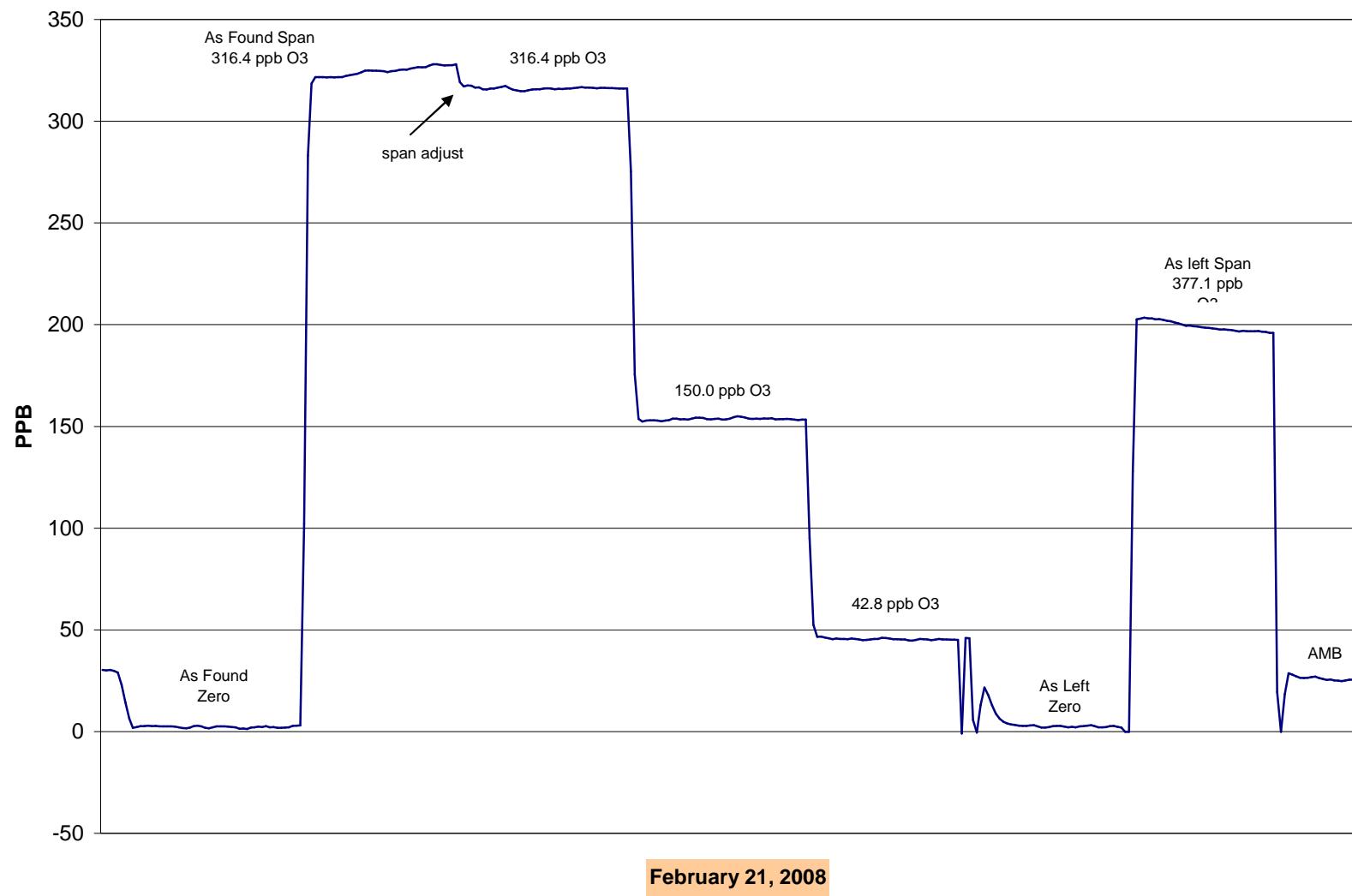
Calibration Date	February 21, 2008	Previous Calibration	January 17, 2008
Station Number	110	Station Location	Rover - Brooks
Start Time (MST)	15:00	End Time (MST)	17:45
Analyzer make/model	API Model 400E	Analyzer serial #	331

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
316.4	316.1	1.0012		
150.0	153.6	0.9763	Correlation Coefficient	0.999918
42.8	45.4	0.9437	Slope	1.008030
0.0	2.2	N/A	Intercept	-3.042847

O3 Calibration Curve



Portable- Brooks O3 Calibration

Calibration Report



Parameter

SO2

Air Monitoring Network

PAS

Station Information

Calibration Date	February 21, 2007	Previous Calibration	January 17, 2007
Station Number	110	Station Location	Rover - Brooks
Reason:	Routine	Install	Removal
Other:			
Start Time (MST)	13:25	End Time (MST)	15:50
Barometric Pressure	27.20 inches Hg	Station Temperature	21.0 Deg C
Calibrator	Environics 6103	Serial Number	2844
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	27-Jul-09
Gas Cert Reference	LL-16136	DACS serial No.	45265
DACS make	Focus AP1000	DACS channel #	5
DACS voltage range	0 - 10 volt		
	<u>Before</u>		<u>After</u>
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.009239	Calculated slope	0.995437
Calculated intercept	8.139377	Calculated intercept	2.516079
Analyzer make	TEI Model 43A	Analyzer serial #	45A-43175-268
Concentration range	before	after	
	0-500	ppb	0-500
	1.5		1.5
	4.65		4.65
	4.75	LPM	4.75
	860	V	859
	22	in Hg	23.5

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4996	0.00	0.0	-2.9	N/A
4996	39.95	399.0	398.1	1.0022
4996	19.94	200.0	198.5	1.0071
4996	9.98	100.2	98.5	1.0179
4996	0.00	0.0	-2.9	As found zero
4996	39.95	399.0	398.1	As found span
Average Correction Factor				1.0091

Calculated value of As Found Response: 412.832 ppm Percent Change of As Found: -3.5%

Auto zero	before calibration		after calibration	
	-4.1	ppm	-1.1	ppm
	193.9	ppm	199.3	ppm

Notes: No adjustments or maintenance performed during the calibration.

Calibration Performed By: Lenin Flores

Calibration Summary



Parameter

SO2

Air Monitoring Network

PAS

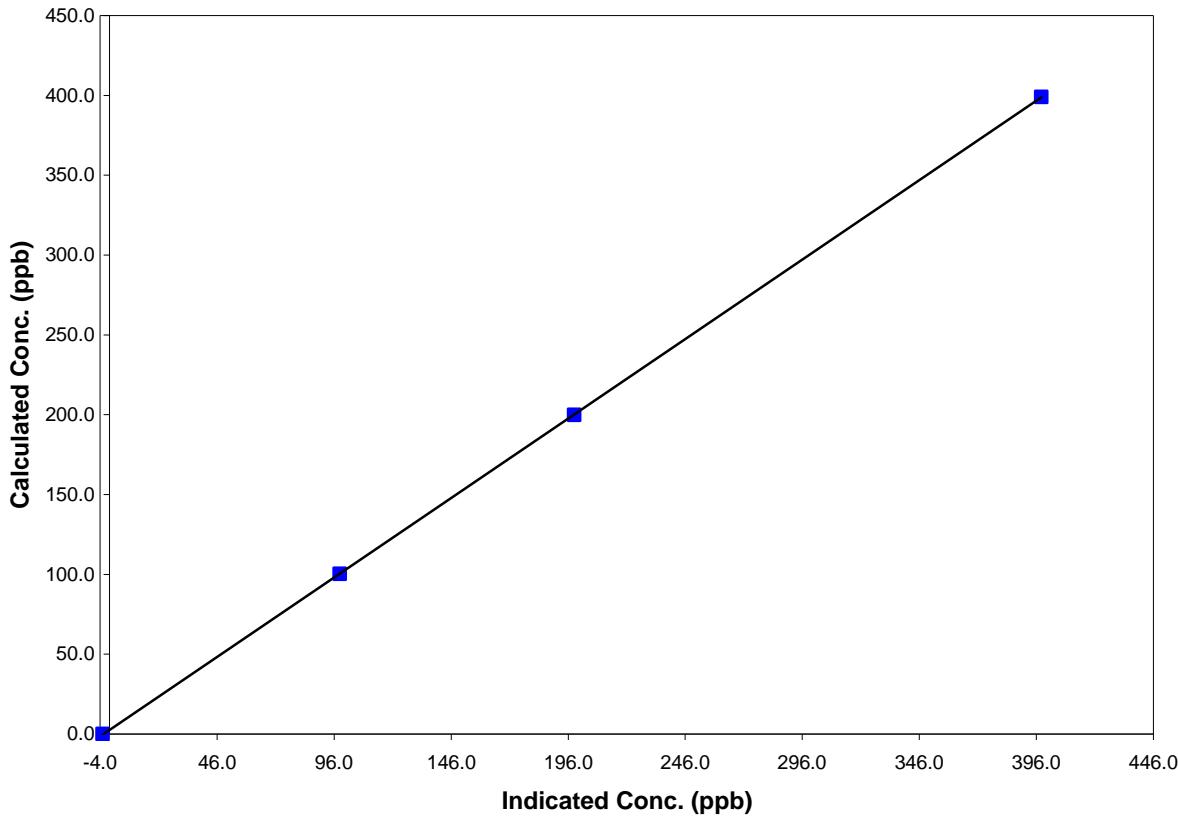
Station Information

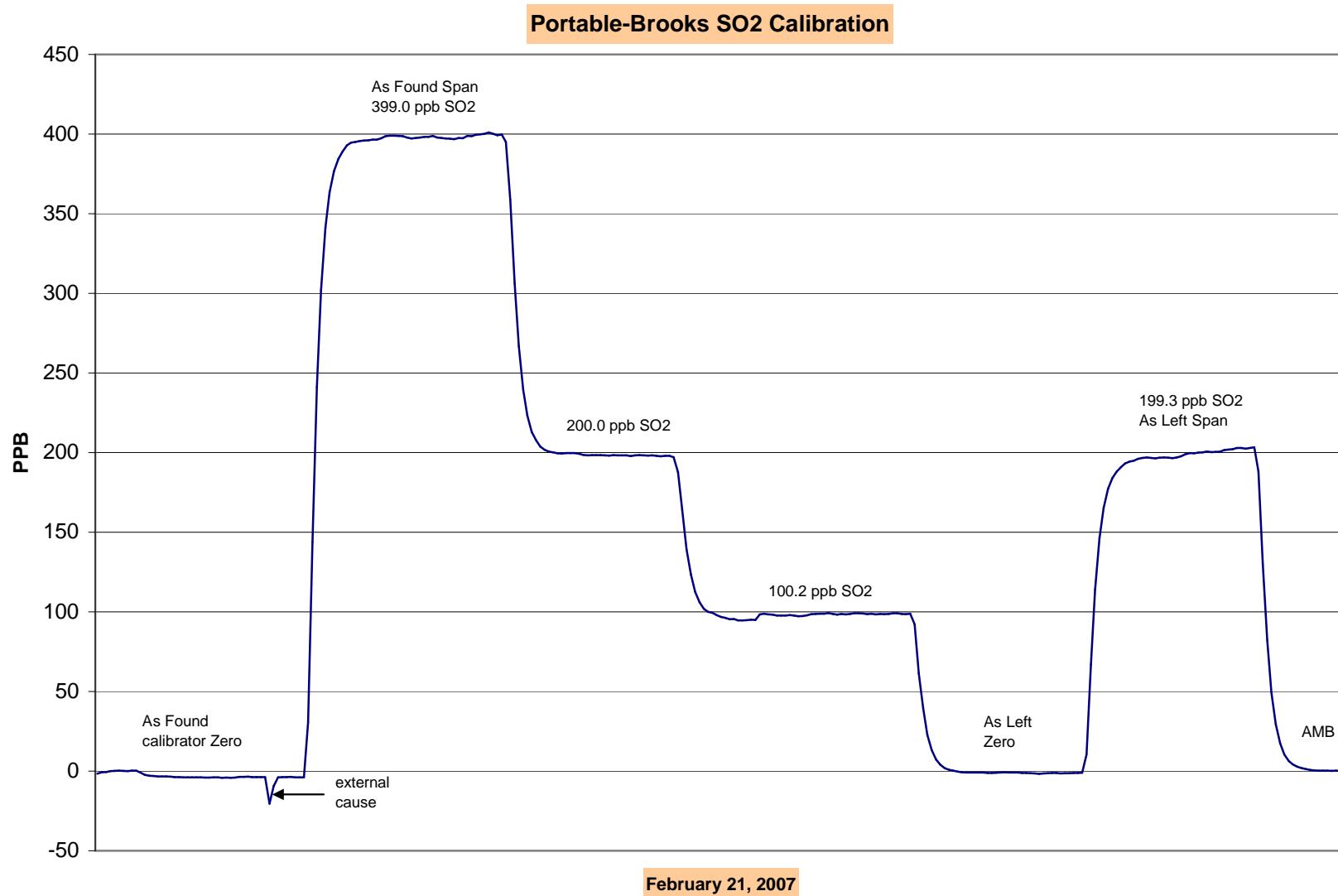
Calibration Date	February 21, 2007	Previous Calibration	January 17, 2007
Station Number	110	Station Location	Rover - Brooks
Start Time (MST)	13:25	End Time (MST)	15:50
Analyzer make/model	TEI Model 43A	Analyzer serial #	45A-43175-268

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-2.9	N/A		
399.0	398.1	1.0022	Correlation Coefficient	0.999997
200.0	198.5	1.0071	Slope	0.995437
100.2	98.5	1.0179	Intercept	2.516079

SO2 Calibration Curve





Calibration Report



Parameter

H2S

Air Monitoring Network

PAS

Station Information

Calibration Date	February 21, 2008	Previous Calibration	January 17, 2008
Station Number	110	Station Location	Brooks Rover
Reason:	Routine	Install	Removal Other:
Start Time (MST)	11:15	End Time (MST)	14:15
Barometric Pressure	27.2 inches Hg	Station Temperature	21.0 Deg C
Calibrator	Environics 6103	Serial Number	2844
Cal Gas Concentration	5.02 ppm	Cal Gas Expiry Date	15-Nov-05
Gas Cert Reference	BLM003489	DACS serial No.	45265
DACS make	Focus AP1000	DACS channel #	6
DACS voltage range	0 - 10 volt		
	<u>Before</u>		<u>After</u>
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.973175	Calculated slope	1.000160
Calculated intercept	-0.482108	Calculated intercept	-0.400211
Analyzer make	TEI Model 43A	Analyzer serial #	43A-25575-221
Concentration range	0 - 100 ppb	before	after
H2S zero pot	959		959
H2S span pot	587		555
Analyzer flow	0.900 LPM		0.900 LPM
UV Lamp voltage	935 V		935 V
Vacuum	21.5 in Hg		21.5 in Hg

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4996	0.00	0.0	0.3	N/A
4996	79.89	79.0	79.3	0.9958
4996	39.94	39.8	40.3	0.9875
4996	9.94	10.0	10.4	0.9609
4996	0.00	0.0	0.3	As found zero
4996	79.89	79.0	81.7	As found span
		Average Correction Factor		0.9814

Calculated value of As Found Response:

78.70 ppm

Percent Change of As Found: 0.4%

Auto zero Auto span	before calibration		after calibration	
	0.7	ppm	0.7	ppm
	40.7	ppm	39.6	ppm

Notes: Performed small span adjustment and adjusted voltage output on analyzer.

Calibration Performed By:

Kelly Baragar

Calibration Summary



Parameter	H2S
Air Monitoring Network	PAS

Station Information

Calibration Date	February 21, 2008	Previous Calibration	January 17, 2008
Station Number	110	Station Location	Brooks Rover
Start Time (MST)	11:15	End Time (MST)	14:15
Analyzer make/model	TEI Model 43A	Analyzer serial #	43A-25575-221

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	N/A		
79.0	79.3	0.9958	Correlation Coefficient	0.999995
39.8	40.3	0.9875	Slope	1.000160
10.0	10.4	0.9609	Intercept	-0.400211

H2S Calibration Curve

