Alton Coal Development, LLC.

Summary of PM_{10} Data
Collected at Coal Hollow Mine, Utah
During the Second Quarter, 2016

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Alton Coal Development
Coal Hollow
Project

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1.0 INTRODUCTION

This report summarizes measurements of Particulate Matter less than 10 microns nominal aerodynamic diameter (PM_{10}) collected and processed by Alton Coal Development, LLC, (ACD) from the five monitoring stations located at the Coal Hollow Mine Facility in Alton, Utah. Monitoring for PM_{10} is a condition of the mines operating permit.

PM_{10} monitoring at the site consists of five BGI PQ200 PM_{10} monitors run by solar power. Figure 2 of this report shows the approximate locations of the monitoring locations. The BGI PQ200 monitors are EPA Reference Method monitors and are operated on the National Particulate 1-in-6 Monitoring Schedule. The data summarized herein covers the data collected during the second quarter of 2016.

2.0 SITE LOCATION

The Coal Hollow Mine is located in Kane County, Utah, approximately three miles southeast of the town of Alton, Utah. Figure I on the following page gives an overview of the site location. Specifically the Coal Hollow Mine is located in Sections 19, 20, 29, and 30 of Township 39S, Range 5W; with an approximate facility location of:

Northing: 41401699 meters

Easting: 371534 meters

Universal Transverse Mercator (UTM) Datum NAD27, Zone 12

The three monitoring locations as depicted in Figure 2, are located in positions to collect both background and maximum PM10 concentrations. The background monitor has a manufactures serial #962, therefore this monitor will be referred as monitor 962A. The compliance monitor for the Coal Hollow Mine (CHM) has a manufactures serial #963, therefore this monitor will be referred as monitor 963B. The co-located monitor has a manufactures serial #964, therefore this monitor will be referred as monitor 964C. The background monitor coordinates are Northing: 4140856, Easting 373119, (UTM) Datum NAD27, Zone 12. The CHM compliance monitor and the co-located monitor coordinates are Northing: 4140396, Easting 371147, (UTM) Datum NAD27, Zone 12. The compliance monitor for the North Private Lease (NPL) has a manufactures serial #2366, therefore this monitor will be referred as monitor 2366D. The co-located monitor has a manufactures serial #2398, therefore this monitor will be referred as monitor 2398E. The NPL compliance monitor and the co-located monitor coordinates are Northing: 4141570, Easting 370928, (UTM) Datum NAD27, Zone 12.

Figure 1 - Site Location Map

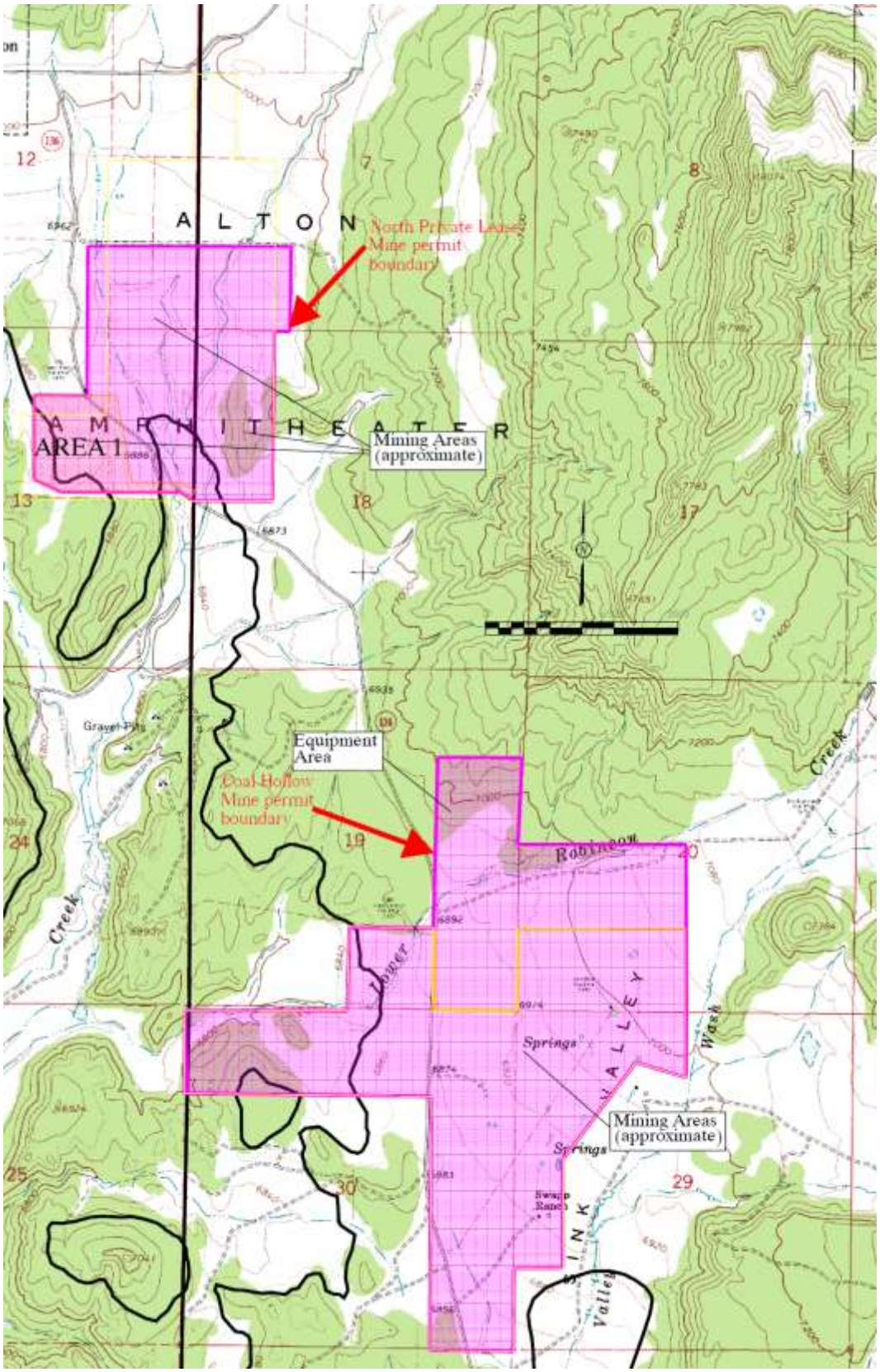


Figure 2 - Satellite View of Monitoring Locations

3.0 AIR QUALITY DATA SUMMARIES

A listing of the measured PM_{10} concentrations for the quarter are presented in Appendix B (individual data sheets are provided on the enclosed disk in the PDF version of Appendix B) and Field Data Sheets generated during the collection of each sample are presented in Appendix D. Measurements were collected during a 24-hour periods and represent the average PM_{10} concentration during the midnight to midnight data collection cycle. As required by the operating permit For the CHM, duplicate measurements were made with Sampler #963B (designated as a compliance monitor) and Sampler #964C (designated as a co-located sampler) to the extent possible. The quarterly mean PM_{10} concentration and the comparison of measured concentrations to standards are based on measurements from the primary Sampler #963B. If a measurement from Sampler #963B was missing or invalid, the measurement from the secondary Sampler #964C would be used. Also, required by the operating permit For the NPL, duplicate measurements were made with Sampler #2366D (designated as a compliance monitor) and Sampler #2398E (designated as a co-located sampler) to the extent possible. The quarterly mean PM_{10} concentration and the comparison of measured concentrations to standards are based on measurements from the primary Sampler #2366D. If a measurement from Sampler #2366D was missing or invalid, the measurement from the secondary Sampler #2398E would be used.

The highest 24-hour mean PM_{10} concentrations measured during the quarter from the three monitoring locations are summarized in Table I, Table II, Table III, Table IV and Table V. The three highest concentrations, # of valid samples, and the arithmetic mean concentrations from each of the sites are listed. All measured PM_{10} concentrations were below the 24-hour National Ambient Air Quality Standard (NAAQS) of 150 µg/m^3.

Table I - Summary of Measured PM_{10} Concentrations (µg/m^3)
Background Monitor - 962A

RANK	DATE	PM_{10} CONCENTRATION
Highest	6/23/2016	16.5
2nd Highest	6/29/2016	12.0
Monthly Mean	4/1/16-4/30/16	3.4
Monthly Mean	5/1/16-5/31/16	6.7
Monthly Mean	6/1/16-6/30/16	11.7
Quarterly Mean	4/1/16-6/30/16 (13 valid samples)	7.4

Table II - Summary of Measured PM_{10} Concentrations (µg/m^3)
Compliance Monitor - 963B

RANK	DATE	PM_{10} CONCENTRATION
Highest	6/23/2016	62.9
2nd Highest	6/29/2016	91.5
Monthly Mean	4/1/16-4/30/16	9.1
Monthly Mean	5/1/16-5/31/16	27.8
Monthly Mean	6/1/16-6/30/16	38.4
Quarterly Mean	4/1/16-6/30/16 (14 valid samples)	26.2

Table III - Summary of Measured PM_{10} Concentrations ($\mu g/m^3$)
Collocated Monitor – 964C

RANK	DATE	PM_{10} CONCENTRATION
Highest	5/12/2016	61.0
2nd Highest	6/17/2016	43.7
Monthly Mean	4/1/16-4/30/16	8.3
Monthly Mean	5/1/16-5/31/16	27.3
Monthly Mean	6/1/16-6/30/16	28.6
Quarterly Mean	4/1/16-6/30/16 (15 valid samples)	21.4

Table IV - Summary of Measured PM_{10} Concentrations ($\mu g/m^3$)
Compliance Monitor – 2366D

RANK	DATE	PM_{10} CONCENTRATION
Highest	6/23/2016	122
2nd Highest	6/29/2016	78.6
Monthly Mean	4/1/16-4/30/16	Not Installed
Monthly Mean	5/1/16-5/31/16	7.0
Monthly Mean	6/1/16-6/30/16	74.5
Quarterly Mean	4/1/16-6/30/16 (13 valid samples)	36.6

Table V - Summary of Measured PM_{10} Concentrations ($\mu g/m^3$)
Collocated Monitor – 2398E

RANK	DATE	PM_{10} CONCENTRATION
Highest	6/23/2016	112.6
2nd Highest	6/17/2016	81.0
Monthly Mean	4/1/16-4/30/16	7.6
Monthly Mean	5/1/16-5/31/16	32.5
Monthly Mean	6/1/16-6/30/16	56.8
Quarterly Mean	4/1/16-6/30/16 (14 valid samples)	34.1

Table VI – Mean Quarterly and Monthly Wind Speed

	2nd Quarter 2016	Apr.	May	Jun.
Mean Wind Speed (m/s)	3.42	3.49	3.40	3.38

4.0 DATA RECOVERY AND QUALITY ASSURANCE

4.1 Data Recovery

Monitor 962A

Monitor 962A collected 13 of the 15 samples during the quarter. The percent recovery for this quarter is 87%. For the sample date of May 6th a rodent had chewed threw the power supply cable to the monitor causing the monitor to not run the programed time. For the sample date of May 24th the power supply where the rodent had chewed threw lost connection and the monitor failed again.

Monitor 963B

Monitor 963B collected 14 of the 15 samples during the quarter. The percent recovery for this quarter is 93%. For the sample date of April 25th the monitor over ran the programed time halted by the operator after 34:43 hours.

Monitor 964C

Monitor 964C collected 15 of the 15 samples during the quarter. The percent recovery for this quarter is 100%.

Monitor 2366D

Monitor 2366D collected 13 of the 15 samples during the quarter. The percent recovery for this quarter is 87%. For the sample date of May 18th the monitor over ran the programed time halted by the operator after 53:03 hours.

Monitor 2398E

Monitor 2398E collected 14 of the 15 samples during the quarter. The percent recovery for this quarter is 93%. For the sample date of Apr. 24th the chamber to the monitor was found open at the time of filter collection, thus the sample was invalidated.

The PM_{10} data recoveries for the five monitoring stations are presented below:

Table VIII - Summary of Data Recovery

SAMPLER	POSSIBLE SAMPLES	VALID SAMPLES	PERCENT DATA RECOVERY
962A	15	13	87%
963B	15	14	93%
964C	15	15	100%
2366D	15	13	87%
2398E	15	14	93%

4.2 Quality Assurance

Quality assurance procedures utilized to verify the integrity of the measured PM_{10} data included the following:

1. Review of PM_{10} precision measurements based upon duplicate, collocated measurements.

2. Independent quarterly audits of the PM_{10} samplers.

3. Monthly zero and single point flow rate checks of the PM_{10} samplers.

4.2.1 Precision of PM_{10} Measurements

The precision of the PM_{10} measurements was determined from the duplicate samples collected from the collocated BGI PQ200 Monitors 963B and 964C at the Coal Hollow Mine and 2366D and 2398E at the North Private Lease. As recommended in *40 CFR, Part 58*, Appendix A, Section 5.3.1, PM_{10} precision checks are reported for instances when the concentrations for duplicate samples both exceed 3 $\mu g/m^3$. Duplicate samples that did not meet this condition were omitted for the purposes of the precision checks. Appendix C, of this report summarizes precision calculations between the compliance monitor and the co-located monitor. Monthly flow rate verification data is also summarized in Appendix C.

Precision calculations at the Coal Hollow Mine were developed based on 13 valid pairs of co-located monitoring data during the quarter. Single point precision based on *40 CFR, Part 58*, Appendix A Equation 2 results were -10.5% to 59.5%. The aggregate coefficient of variability (CV) calculated in accordance with *40 CFR, Part 58*, Appendix A Equation 11 is 18.96%. This value is not within the 10% goal for aggregate CV.

Precision calculations at the North Private Lease were developed based on 11 valid pairs of co-located monitoring data during the quarter. Single point precision based on *40 CFR, Part 58*, Appendix A Equation 2 results were -46.0% to 47.6%. The aggregate coefficient of variability (CV) calculated in accordance with *40 CFR, Part 58*, Appendix A Equation 11 is 26.19%. This value is not within the 10% goal for aggregate CV.

4.2.2 Audit Results

The accuracy of the PM_{10} sampler flows was verified by a performance audit conducted by Air Resource Specialist on Feb. 22, 2016. A copy of the audit report is presented in Appendix E and is summarized in Table VI. The audit results indicate that the three samplers were operating properly.

Table VII III- Audit Summary

SAMPLER	AUDIT % DIFFERENCE	LIMIT*	DESIGN % DIFFERENCE	LIMIT*
962A	-2.6	±4%	2.6	± 5%

963B	-1.1	±4%	1.1	± 5%
964C	-0.1	±4%	0.1	± 5%
2366D	-0.7	±4%	0.7	± 5%
2398E	-1.0	±4%	1.0	± 5%
*Values between ± 7% and ± 10% require recalibration but no data are invalidated.				

4.2.3 Zero and Single Point Flow Rate Checks

Zero and single-point flow rate verifications are performed by a site technician on a monthly basis. The data was then input into a statistical calculator to calculate percent difference and bias between each of the monitors and the monthly single point flow rate measured by a NIST traceable calibration orifice. The calculator used is called the "Data Assessment Statistical Calculator" DASC Tool. DASC was developed for the data user community and can be found in the Precision and Accuracy Reporting System within the Quality Assurance section of EPA's Ambient Monitoring Technology Information System. This data is presented in Appendix C of this report.

APPENDIX A

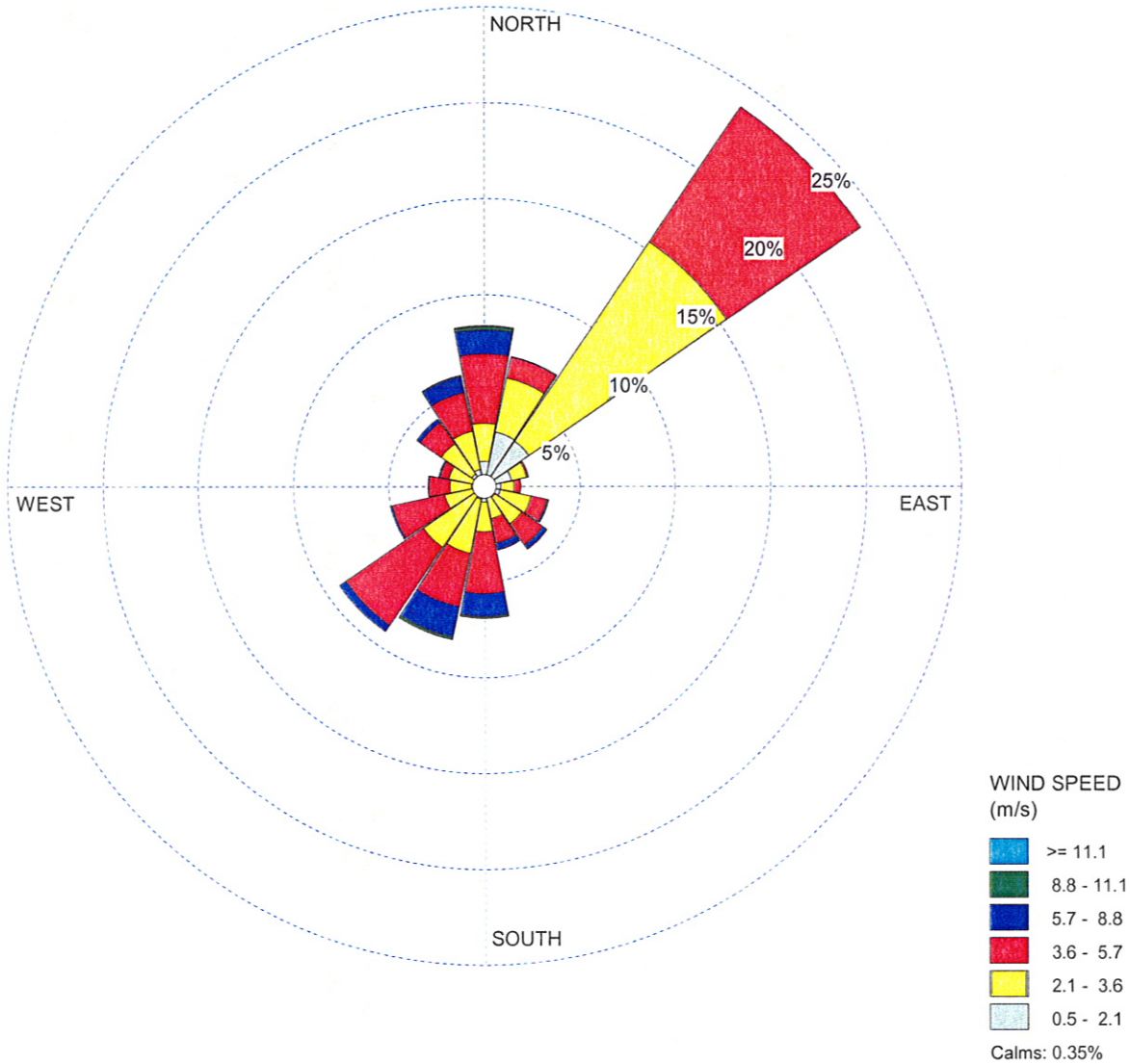
Windrose

WIND ROSE PLOT:

Alton Coal Development , Alton, Utah
2016 2nd Quarter

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	Start Date: 4/1/2016 - 00:00 **End Date: 6/30/2016 - 23:00**	**Alton Coal Development, LLC - Coal Hollow Mine**	
		MODELER: **K. Nicholes**	
	CALM WINDS: **0.35%**	TOTAL COUNT: **2184 hrs.**	
	AVG. WIND SPEED: **3.42 m/s**	DATE: **7/7/2016**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

Station ID: 1 Run ID:
Start Date: 4/1/2016 - 00:00
End Date: 6/30/2016 - 23:00

Frequency Distribution
(Count)

Wind Direction (Blowing From) / Wind Speed (m/s)

	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
348.75-11.25	29	43	79	27	4	1	183
11.25-33.75	63	63	24	1	0	0	151
33.75-56.25	62	274	185	0	0	0	521
56.25-78.75	32	18	2	0	0	0	52
78.75-101.25	19	15	8	0	0	0	42
101.25-123.75	19	36	18	2	0	0	75
123.75-146.25	15	37	29	6	0	0	87
146.25-168.75	11	27	28	8	0	0	74
168.75-191.25	18	34	70	26	2	0	150
191.25-213.75	15	63	62	35	3	0	178
213.75-236.25	12	72	107	9	0	0	200
236.25-258.75	10	36	61	2	0	0	109
258.75-281.25	15	24	24	1	0	0	64
281.25-303.75	12	29	10	2	0	0	53
303.75-326.25	17	42	29	5	0	0	93
326.25-348.75	20	44	45	19	0	1	129
Total	369	857	781	143	9	2	2184

Frequency of Calm Winds: 23
Average Wind Speed: 3.42 m/s

Station ID: 1 Run ID:
Start Date: 4/1/2016 - 00:00
End Date: 6/30/2016 - 23:00

Frequency Distribution
(Normalized)

Wind Direction (Blowing From) / Wind Speed (m/s)

	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
348.75-11.25	0.013278	0.019689	0.036172	0.012363	0.001832	0.000458	0.083791
11.25-33.75	0.028846	0.028846	0.010989	0.000458	0.000000	0.000000	0.069139
33.75-56.25	0.028388	0.125458	0.084707	0.000000	0.000000	0.000000	0.238553
56.25-78.75	0.014652	0.008242	0.000916	0.000000	0.000000	0.000000	0.023810
78.75-101.25	0.008700	0.006868	0.003663	0.000000	0.000000	0.000000	0.019231
101.25-123.75	0.008700	0.016484	0.008242	0.000916	0.000000	0.000000	0.034341
123.75-146.25	0.006868	0.016941	0.013278	0.002747	0.000000	0.000000	0.039835
146.25-168.75	0.005037	0.012363	0.012821	0.003663	0.000000	0.000000	0.033883
168.75-191.25	0.008242	0.015568	0.032051	0.011905	0.000916	0.000000	0.068681
191.25-213.75	0.006868	0.028846	0.028388	0.016026	0.001374	0.000000	0.081502
213.75-236.25	0.005495	0.032967	0.048993	0.004121	0.000000	0.000000	0.091575
236.25-258.75	0.004579	0.016484	0.027930	0.000916	0.000000	0.000000	0.049908
258.75-281.25	0.006868	0.010989	0.010989	0.000458	0.000000	0.000000	0.029304
281.25-303.75	0.005495	0.013278	0.004579	0.000916	0.000000	0.000000	0.024267
303.75-326.25	0.007784	0.019231	0.013278	0.002289	0.000000	0.000000	0.042582
326.25-348.75	0.009158	0.020147	0.020604	0.008700	0.000000	0.000458	0.059066
Total	0.168956	0.392399	0.357601	0.065476	0.004121	0.000916	0.989469

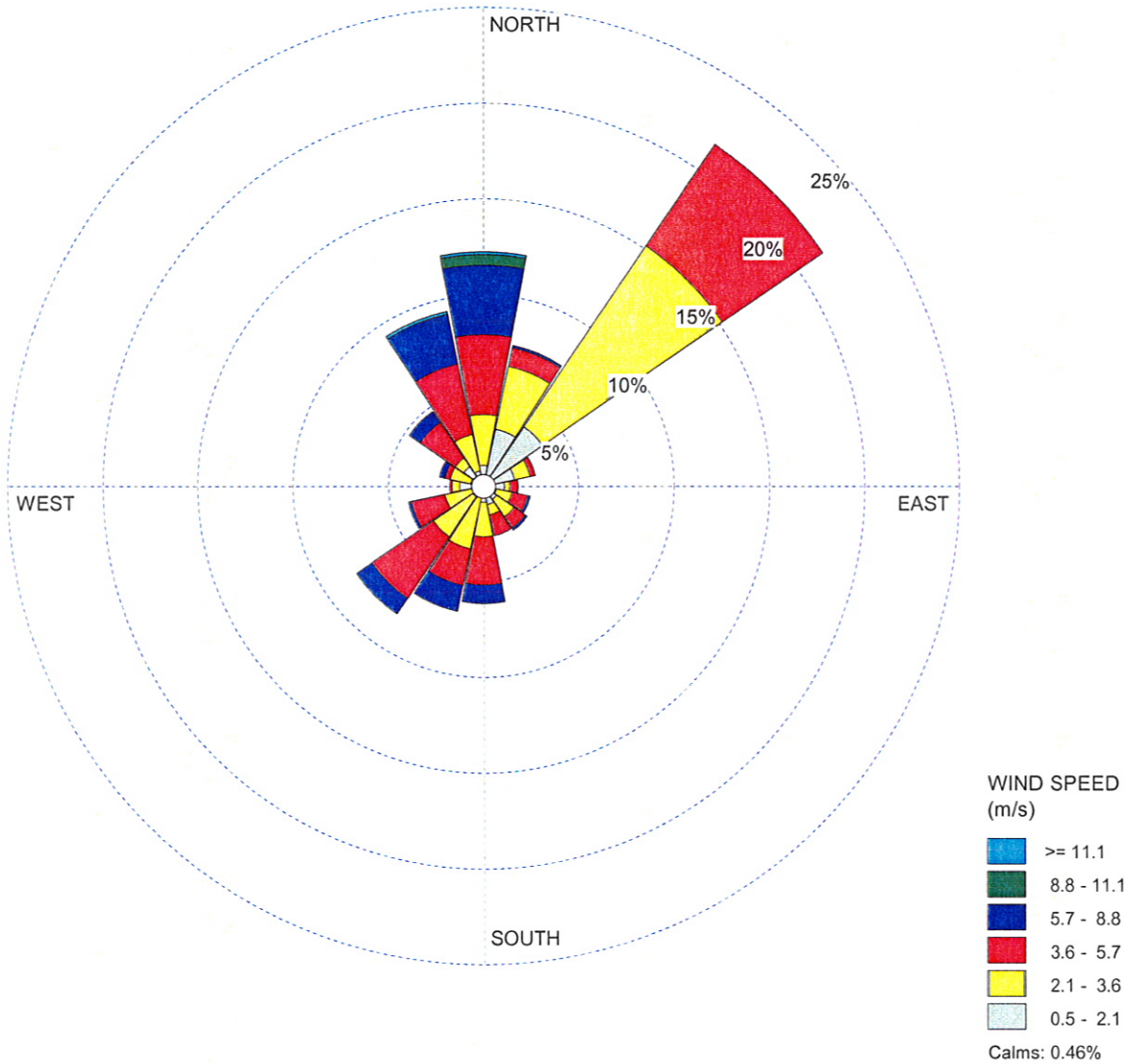
Frequency of Calm Winds: 1.05%
Average Wind Speed: 3.42 m/s

WIND ROSE PLOT:

Alton Coal Development , Alton, Utah
2016 April

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	Start Date: 4/1/2016 - 00:00 **End Date: 4/30/2016 - 23:00**	**Alton Coal Development, LLC - Coal Hollow Mine**	
		MODELER: **K. Nicholes**	
	CALM WINDS: **0.46%**	TOTAL COUNT: **720 hrs.**	
	AVG. WIND SPEED: **3.49 m/s**	DATE: **7/7/2016**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

Station ID: 1 Run ID:
Start Date: 4/1/2016 - 00:00
End Date: 4/30/2016 - 23:00

Frequency Distribution
(Count)

Wind Direction (Blowing From) / Wind Speed (m/s)

	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
348.75-11.25	8	19	30	26	4	1	88
11.25-33.75	22	24	7	1	0	0	54
33.75-56.25	27	82	46	0	0	0	155
56.25-78.75	12	6	2	0	0	0	20
78.75-101.25	8	2	3	0	0	0	13
101.25-123.75	5	6	6	1	0	0	18
123.75-146.25	6	8	5	1	0	0	20
146.25-168.75	7	4	8	0	0	0	19
168.75-191.25	6	13	18	7	0	0	44
191.25-213.75	4	20	14	10	0	0	48
213.75-236.25	5	18	28	7	0	0	58
236.25-258.75	2	13	13	1	0	0	29
258.75-281.25	9	3	1	0	0	0	13
281.25-303.75	5	8	2	2	0	0	17
303.75-326.25	9	4	16	5	0	0	34
326.25-348.75	6	14	27	19	0	1	67
Total	141	244	226	80	4	2	720

Frequency of Calm Winds: 23
Average Wind Speed: 3.49 m/s

Station ID: 1 Run ID:
Start Date: 4/1/2016 - 00:00
End Date: 4/30/2016 - 23:00

Frequency Distribution
(Normalized)

Wind Direction (Blowing From) / Wind Speed (m/s)

	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
348.75-11.25	0.011111	0.026389	0.041667	0.036111	0.005556	0.001389	0.122222
11.25-33.75	0.030556	0.033333	0.009722	0.001389	0.000000	0.000000	0.075000
33.75-56.25	0.037500	0.113889	0.063889	0.000000	0.000000	0.000000	0.215278
56.25-78.75	0.016667	0.008333	0.002778	0.000000	0.000000	0.000000	0.027778
78.75-101.25	0.011111	0.002778	0.004167	0.000000	0.000000	0.000000	0.018056
101.25-123.75	0.006944	0.008333	0.008333	0.001389	0.000000	0.000000	0.025000
123.75-146.25	0.008333	0.011111	0.006944	0.001389	0.000000	0.000000	0.027778
146.25-168.75	0.009722	0.005556	0.011111	0.000000	0.000000	0.000000	0.026389
168.75-191.25	0.008333	0.018056	0.025000	0.009722	0.000000	0.000000	0.061111
191.25-213.75	0.005556	0.027778	0.019444	0.013889	0.000000	0.000000	0.066667
213.75-236.25	0.006944	0.025000	0.038889	0.009722	0.000000	0.000000	0.080556
236.25-258.75	0.002778	0.018056	0.018056	0.001389	0.000000	0.000000	0.040278
258.75-281.25	0.012500	0.004167	0.001389	0.000000	0.000000	0.000000	0.018056
281.25-303.75	0.006944	0.011111	0.002778	0.002778	0.000000	0.000000	0.023611
303.75-326.25	0.012500	0.005556	0.022222	0.006944	0.000000	0.000000	0.047222
326.25-348.75	0.008333	0.019444	0.037500	0.026389	0.000000	0.001389	0.093056
Total	0.195833	0.338889	0.313889	0.111111	0.005556	0.002778	0.968056

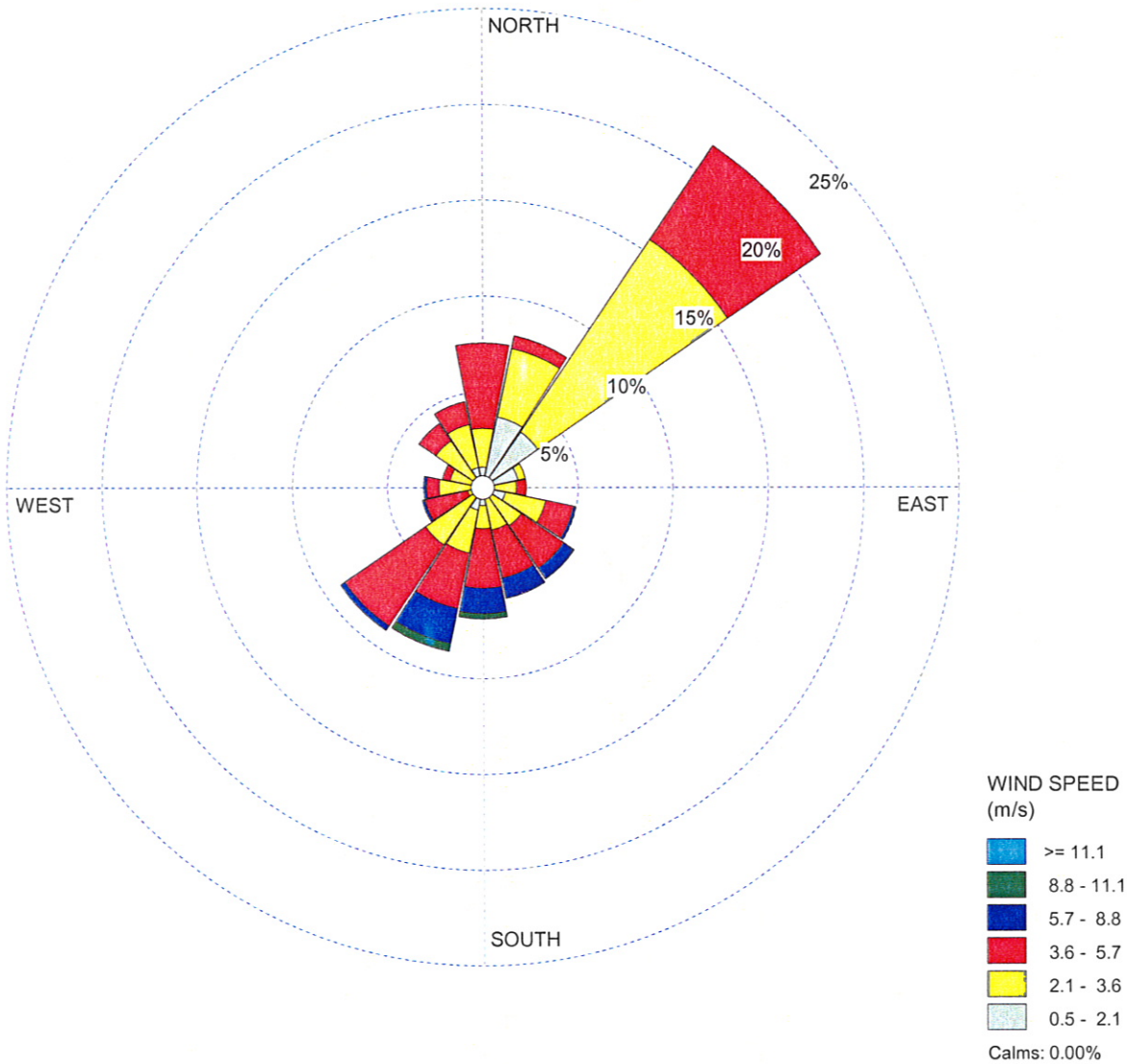
Frequency of Calm Winds: 3.19%
Average Wind Speed: 3.49 m/s

WIND ROSE PLOT:

Alton Coal Development , Alton, Utah
2016 May

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	Start Date: 5/1/2016 - 00:00 **End Date: 5/31/2016 - 23:00**	**Alton Coal Development, LLC - Coal Hollow Mine**	
		MODELER: **K. Nicholes**	
	CALM WINDS: **0.00%**	TOTAL COUNT: **744 hrs.**	
	AVG. WIND SPEED: **3.40 m/s**	DATE: **7/7/2016**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

Station ID: 1 Run ID:
Start Date: 5/1/2016 - 00:00
End Date: 5/31/2016 - 23:00

Frequency Distribution
(Count)

Wind Direction (Blowing From) / Wind Speed (m/s)

	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
348.75-11.25	8	15	33	0	0	0	56
11.25-33.75	28	27	5	0	0	0	60
33.75-56.25	26	90	44	0	0	0	160
56.25-78.75	14	3	0	0	0	0	17
78.75-101.25	4	9	4	0	0	0	17
101.25-123.75	9	16	11	1	0	0	37
123.75-146.25	4	14	20	5	0	0	43
146.25-168.75	3	14	19	8	0	0	44
168.75-191.25	7	9	23	10	2	0	51
191.25-213.75	9	17	22	14	3	0	65
213.75-236.25	3	24	38	2	0	0	67
236.25-258.75	3	3	17	1	0	0	24
258.75-281.25	4	13	5	1	0	0	23
281.25-303.75	4	9	3	0	0	0	16
303.75-326.25	3	19	8	0	0	0	30
326.25-348.75	8	17	9	0	0	0	34
Total	137	299	261	42	5	0	744

Frequency of Calm Winds: 0
Average Wind Speed: 3.40 m/s

Station ID: 1 Run ID:
Start Date: 5/1/2016 - 00:00
End Date: 5/31/2016 - 23:00

Frequency Distribution
(Normalized)

Wind Direction (Blowing From) / Wind Speed (m/s)

	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
348.75-11.25	0.010753	0.020161	0.044355	0.000000	0.000000	0.000000	0.075269
11.25-33.75	0.037634	0.036290	0.006720	0.000000	0.000000	0.000000	0.080645
33.75-56.25	0.034946	0.120968	0.059140	0.000000	0.000000	0.000000	0.215054
56.25-78.75	0.018817	0.004032	0.000000	0.000000	0.000000	0.000000	0.022849
78.75-101.25	0.005376	0.012097	0.005376	0.000000	0.000000	0.000000	0.022849
101.25-123.75	0.012097	0.021505	0.014785	0.001344	0.000000	0.000000	0.049731
123.75-146.25	0.005376	0.018817	0.026882	0.006720	0.000000	0.000000	0.057796
146.25-168.75	0.004032	0.018817	0.025538	0.010753	0.000000	0.000000	0.059140
168.75-191.25	0.009409	0.012097	0.030914	0.013441	0.002688	0.000000	0.068548
191.25-213.75	0.012097	0.022849	0.029570	0.018817	0.004032	0.000000	0.087366
213.75-236.25	0.004032	0.032258	0.051075	0.002688	0.000000	0.000000	0.090054
236.25-258.75	0.004032	0.004032	0.022849	0.001344	0.000000	0.000000	0.032258
258.75-281.25	0.005376	0.017473	0.006720	0.001344	0.000000	0.000000	0.030914
281.25-303.75	0.005376	0.012097	0.004032	0.000000	0.000000	0.000000	0.021505
303.75-326.25	0.004032	0.025538	0.010753	0.000000	0.000000	0.000000	0.040323
326.25-348.75	0.010753	0.022849	0.012097	0.000000	0.000000	0.000000	0.045699
Total	0.184140	0.401882	0.350806	0.056452	0.006720	0.000000	1.000000

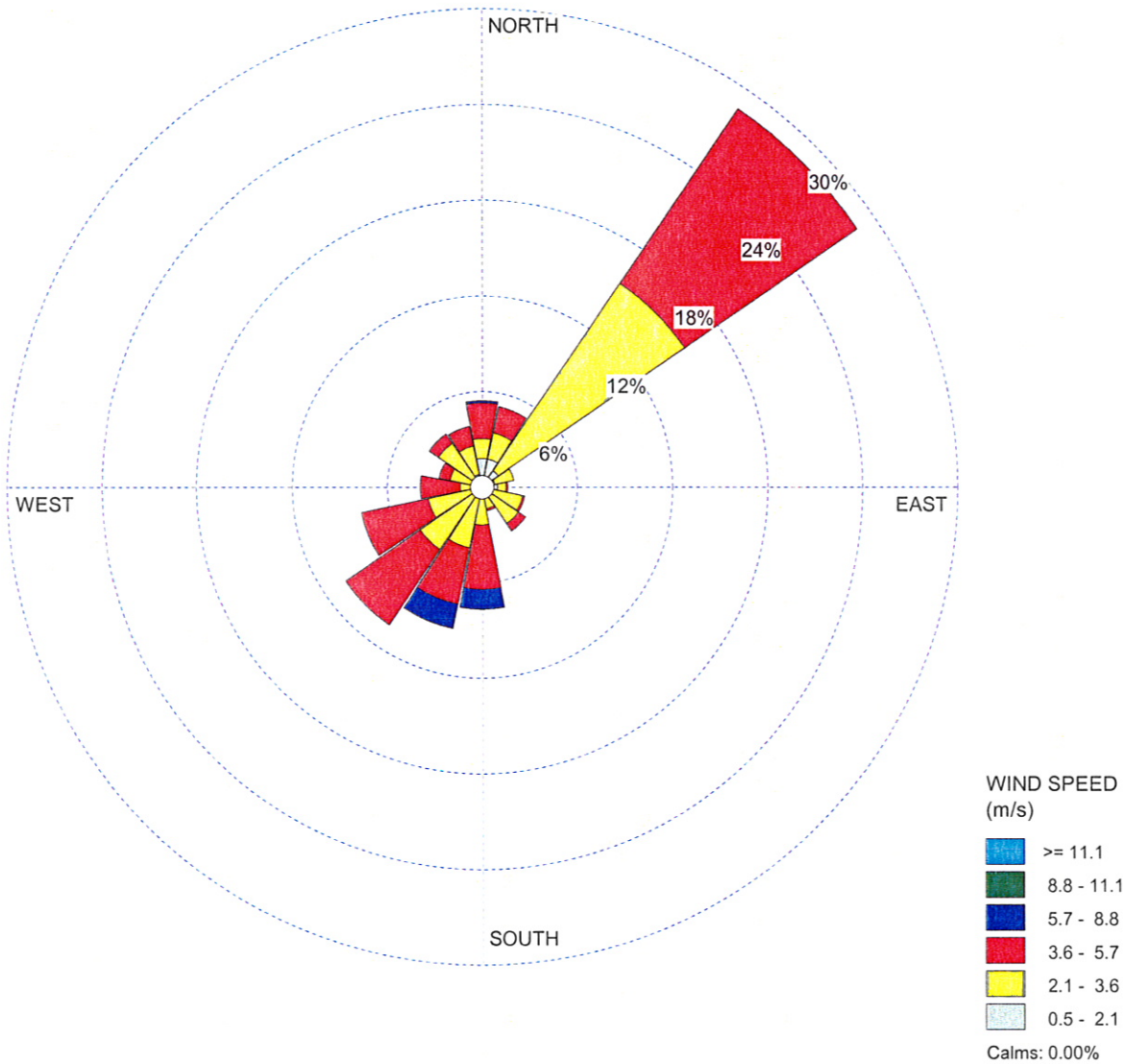
Frequency of Calm Winds: 0.00%
Average Wind Speed: 3.40 m/s

WIND ROSE PLOT:

Alton Coal Development , Alton, Utah
2016 June

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	Start Date: 6/1/2016 - 00:00 **End Date: 6/30/2016 - 23:00**	**Alton Coal Development, LLC - Coal Hollow Mine**	
		MODELER: **K. Nicholes**	
	CALM WINDS: **0.00%**	TOTAL COUNT: **720 hrs.**	
	AVG. WIND SPEED: **3.38 m/s**	DATE: **7/7/2016**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

Station ID: 1 Run ID:
Start Date: 6/1/2016 - 00:00
End Date: 6/30/2016 - 23:00

Frequency Distribution
(Count)

Wind Direction (Blowing From) / Wind Speed (m/s)

	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
348.75-11.25	13	9	16	1	0	0	39
11.25-33.75	13	12	12	0	0	0	37
33.75-56.25	9	102	95	0	0	0	206
56.25-78.75	6	9	0	0	0	0	15
78.75-101.25	7	4	1	0	0	0	12
101.25-123.75	5	14	1	0	0	0	20
123.75-146.25	5	15	4	0	0	0	24
146.25-168.75	1	9	1	0	0	0	11
168.75-191.25	5	12	29	9	0	0	55
191.25-213.75	2	26	26	11	0	0	65
213.75-236.25	4	30	41	0	0	0	75
236.25-258.75	5	20	31	0	0	0	56
258.75-281.25	2	8	18	0	0	0	28
281.25-303.75	3	12	5	0	0	0	20
303.75-326.25	5	19	5	0	0	0	29
326.25-348.75	6	13	9	0	0	0	28
Total	91	314	294	21	0	0	720

Frequency of Calm Winds: 0
Average Wind Speed: 3.38 m/s

Station ID: 1 Run ID:
Start Date: 6/1/2016 - 00:00
End Date: 6/30/2016 - 23:00

Frequency Distribution
(Normalized)

Wind Direction (Blowing From) / Wind Speed (m/s)

	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
348.75-11.25	0.018056	0.012500	0.022222	0.001389	0.000000	0.000000	0.054167
11.25-33.75	0.018056	0.016667	0.016667	0.000000	0.000000	0.000000	0.051389
33.75-56.25	0.012500	0.141667	0.131944	0.000000	0.000000	0.000000	0.286111
56.25-78.75	0.008333	0.012500	0.000000	0.000000	0.000000	0.000000	0.020833
78.75-101.25	0.009722	0.005556	0.001389	0.000000	0.000000	0.000000	0.016667
101.25-123.75	0.006944	0.019444	0.001389	0.000000	0.000000	0.000000	0.027778
123.75-146.25	0.006944	0.020833	0.005556	0.000000	0.000000	0.000000	0.033333
146.25-168.75	0.001389	0.012500	0.001389	0.000000	0.000000	0.000000	0.015278
168.75-191.25	0.006944	0.016667	0.040278	0.012500	0.000000	0.000000	0.076389
191.25-213.75	0.002778	0.036111	0.036111	0.015278	0.000000	0.000000	0.090278
213.75-236.25	0.005556	0.041667	0.056944	0.000000	0.000000	0.000000	0.104167
236.25-258.75	0.006944	0.027778	0.043056	0.000000	0.000000	0.000000	0.077778
258.75-281.25	0.002778	0.011111	0.025000	0.000000	0.000000	0.000000	0.038889
281.25-303.75	0.004167	0.016667	0.006944	0.000000	0.000000	0.000000	0.027778
303.75-326.25	0.006944	0.026389	0.006944	0.000000	0.000000	0.000000	0.040278
326.25-348.75	0.008333	0.018056	0.012500	0.000000	0.000000	0.000000	0.038889
Total	0.126389	0.436111	0.408333	0.029167	0.000000	0.000000	1.000000

Frequency of Calm Winds: 0.00%
Average Wind Speed: 3.38 m/s

APPENDIX B

Listing of PM_{10} Concentrations

Background Monitor 962A

PM_{10} Sampler Summary

April 1, 2016 - June 30, 2016

Network: **Alton Coal Development**
Site: Coal Hollow
Sampler ID: Coal Hollow-A **AQS ID:**
Sampler Type: BGI FRM Single

Date	Filter ID	Concentration (µg/m3) LTP	Concentration (µg/m3) STP	Sample Period (hr:min)	Sample Volume (m3)	Std Volume (m3)	Mass (mg) Tare	Gross	Net	Flag	Comments
04/06/16	P2929002	**3.9**	**4.7**	23:59	24.0	19.7	381.351	381.445	0.094		
04/12/16	P2929223	**1.9**	**2.3**	23:59	24.0	19.7	371.091	371.138	0.047		
04/18/16	P2929228	**2.4**	**2.9**	23:59	24.0	19.9	397.910	397.969	0.059	HT	
04/24/16	P2929387	**4.2**	**5.2**	23:59	24.0	19.5	380.256	380.359	0.103		
04/30/16	P2929392	**1.6**	**1.9**	23:59	24.0	19.8	382.642	382.681	0.039	HT	
05/06/16	P2929397	**Invalid - AG**	**Invalid - AG**	1:48	1.8	1.5	382.474	382.515	0.041	SP,HT	
05/12/16	P2929630	**5.3**	**6.6**	24:00	24.0	19.5	369.393	369.522	0.129		
05/18/16	P2929815	**3.3**	**4.0**	23:59	24.0	19.6	367.546	367.626	0.080	PI,HT	
05/24/16	P2929820	**Invalid - AG**	**Invalid - AG**	8:56	9.0	7.3	367.378	367.462	0.084	SP	
05/30/16	P2929822	**7.6**	**9.5**	23:59	24.0	19.3	369.039	369.223	0.184	HT	
06/05/16	P2929635	**7.9**	**10.1**	23:59	24.0	18.7	379.482	379.672	0.190	XT	
06/11/16	P2930159	**9.0**	**11.3**	23:59	24.0	19.2	377.047	377.265	0.218	HT	
06/17/16	P2930165	**7.0**	**8.8**	23:59	24.0	19.2	383.646	383.815	0.169	TD,HT	
06/23/16	P2930501	**12.9**	**16.5**	23:59	24.0	18.8	372.958	373.269	0.311		
06/29/16	P2930507	**9.4**	**12.0**	23:59	24.0	18.8	377.817	378.043	0.226		

# Valid	Recovery	Average	St. Dev.	Max	Min
13	**87%**	**7.4**	**4.4**	**16.5**	**1.9**

BGI PQ200 Air Sampling System Downloaded 2016 02 apr 10:54:51

Job Details:

Job Name: 16Apr02A.JOB
Version: 5.62
Serial No: 962
Pump Time: 7587:50
Flags:

Job Code:
Site Name: 962A
Station Code:
Operators: KN
User1:
User2:

	Max	Min	Avg	Units
BP	583	579	580	mmHg
TA	8.5	-6.7	1.2	°C
Q	---	---	16.7	Lpm

QCV 0.5 %

Max overheat 3.4 °C
occured 31-mar 11:31:56

Timer Information:

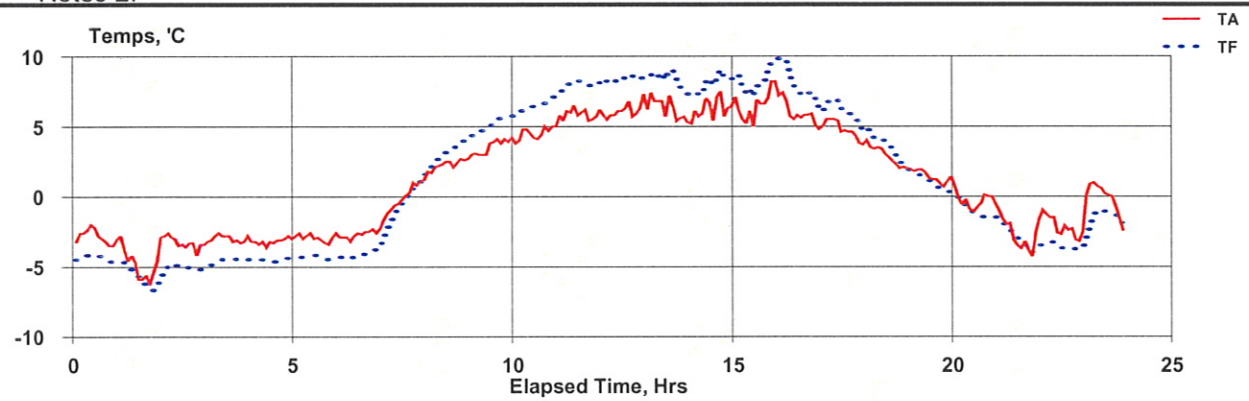
	Date dd-mmm	Time hh:mm:ss
Start:	16-31-mar	0:00:08
Stop:	16-01-apr	0:00:05

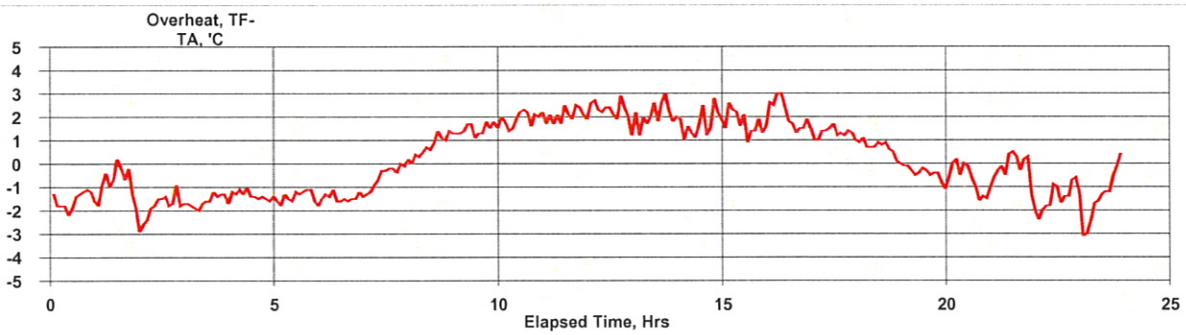
ET: 23:59

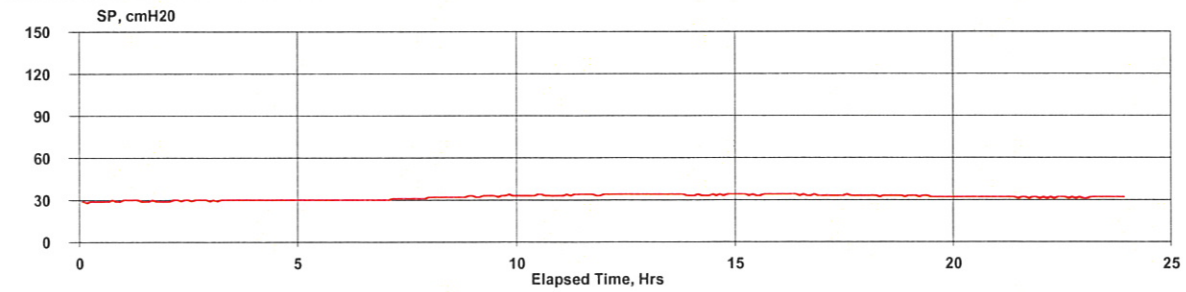
Mass Concentration Data:

Filter ID:	29	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.032	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:







16-31-mar	0:05:08	580	-2.8	-4.4	-1.6	29	16.72
16-31-mar	1:05:08	580	-4.7	-5.7	-1.0	29	16.71
16-31-mar	2:05:08	580	-3.3	-5.0	-1.8	30	16.72
16-31-mar	3:05:08	580	-3.0	-4.6	-1.6	30	16.72
16-31-mar	4:05:08	580	-3.2	-4.5	-1.3	30	16.71
16-31-mar	5:05:08	580	-2.9	-4.3	-1.4	30	16.71
16-31-mar	6:05:08	580	-2.7	-4.1	-1.4	30	16.71
16-31-mar	7:05:08	580	0.0	-0.5	-0.5	31	16.70
16-31-mar	8:05:08	580	2.3	3.1	0.8	32	16.72
16-31-mar	9:05:08	580	3.6	5.1	1.5	33	16.72
16-31-mar	10:05:08	580	4.5	6.5	1.9	33	16.71
16-31-mar	11:05:08	581	5.9	7.9	2.1	34	16.70
16-31-mar	12:05:08	580	6.1	8.4	2.3	34	16.71
16-31-mar	13:05:08	580	6.3	8.4	2.1	34	16.69
16-31-mar	14:05:08	580	6.3	8.0	1.7	34	16.70
16-31-mar	15:05:08	580	6.5	8.3	1.7	34	16.71
16-31-mar	16:05:08	580	6.0	8.0	2.1	34	16.70
16-31-mar	17:05:08	580	4.8	6.1	1.3	33	16.72
16-31-mar	18:05:08	581	2.9	3.5	0.7	33	16.71
16-31-mar	19:05:08	581	1.4	1.0	-0.4	32	16.71
16-31-mar	20:05:08	581	-0.3	-1.0	-0.7	32	16.72
16-31-mar	21:05:08	582	-2.7	-3.0	-0.3	32	16.73
16-31-mar	22:05:08	582	-2.2	-3.6	-1.4	32	16.71
16-31-mar	23:05:08	582	-0.1	-1.5	-1.4	32	16.71

BGI PQ200 Air Sampling System Downloaded 2016 07 apr 14:21:34

Job Details:

Job Name:	16Apr07A.JOB
Version:	5.62
Serial No:	962
Pump Time:	7611:49
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	591	588	589	mmHg
TA	21.5	-4.1	9.2	°C
Q	---	---	16.7	Lpm

QCV	0.46 %
Max overheat	3.6 °C
occured	06-apr 15:22:26

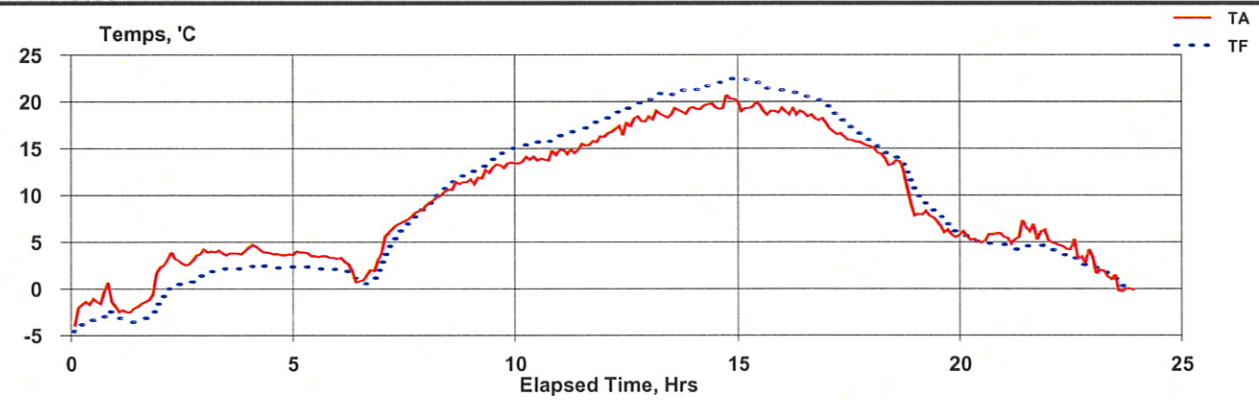
Timer Information:

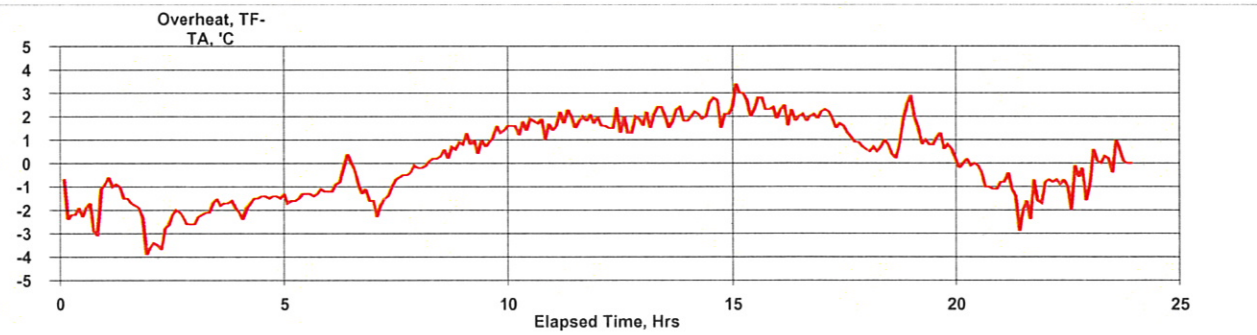
	Date dd-mmm	Time hh:mm:ss
Start:	16-06-apr	0:00:08
Stop:	16-07-apr	0:00:05
ET:	23:59	

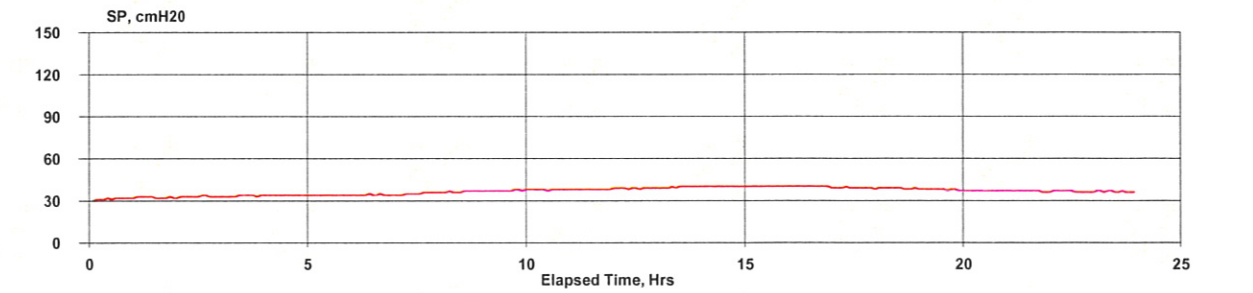
Mass Concentration Data:

Filter ID:	34	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.03	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-06-apr	0:05:08	591	-1.5	-3.4	-1.9	32	16.71
16-06-apr	1:05:08	591	-1.2	-3.0	-1.8	33	16.74
16-06-apr	2:05:08	590	3.2	0.5	-2.7	33	16.72
16-06-apr	3:05:08	590	3.9	2.0	-1.9	34	16.70
16-06-apr	4:05:08	590	3.9	2.3	-1.6	34	16.71
16-06-apr	5:05:08	590	3.6	2.2	-1.4	34	16.71
16-06-apr	6:05:08	591	2.1	1.3	-0.8	34	16.69
16-06-apr	7:05:08	591	7.3	6.4	-0.9	35	16.71
16-06-apr	8:05:08	591	10.6	11.0	0.4	37	16.71
16-06-apr	9:05:08	591	12.7	13.8	1.1	37	16.71
16-06-apr	10:05:08	591	14.0	15.6	1.6	38	16.70
16-06-apr	11:05:08	591	15.3	17.2	1.9	38	16.70
16-06-apr	12:05:08	590	17.5	19.2	1.7	39	16.70
16-06-apr	13:05:08	590	18.8	20.8	2.0	40	16.70
16-06-apr	14:05:08	589	19.7	21.9	2.2	40	16.71
16-06-apr	15:05:08	589	19.2	21.8	2.6	40	16.71
16-06-apr	16:05:08	589	18.5	20.6	2.1	40	16.71
16-06-apr	17:05:08	589	16.0	17.4	1.4	39	16.70
16-06-apr	18:05:08	588	12.7	13.7	1.1	39	16.71
16-06-apr	19:05:08	589	6.9	7.9	1.0	38	16.71
16-06-apr	20:05:08	589	5.5	5.0	-0.5	37	16.71
16-06-apr	21:05:08	589	5.9	4.4	-1.5	37	16.71
16-06-apr	22:05:08	589	4.1	3.3	-0.9	37	16.71
16-06-apr	23:05:08	588	0.8	1.0	0.2	36	16.69

BGI PQ200 Air Sampling System Downloaded 2016 13 apr 13:31:13

Job Details:

Job Name:	16Apr13A.JOB
Version:	5.62
Serial No:	962
Pump Time:	7635:48
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	586	584	585	mmHg
TA	17	-0.7	6.3	°C
Q	---	---	16.71	Lpm

QCV	0.57	%
Max overheat	5.1	°C
occured	12-apr 13:54:58	

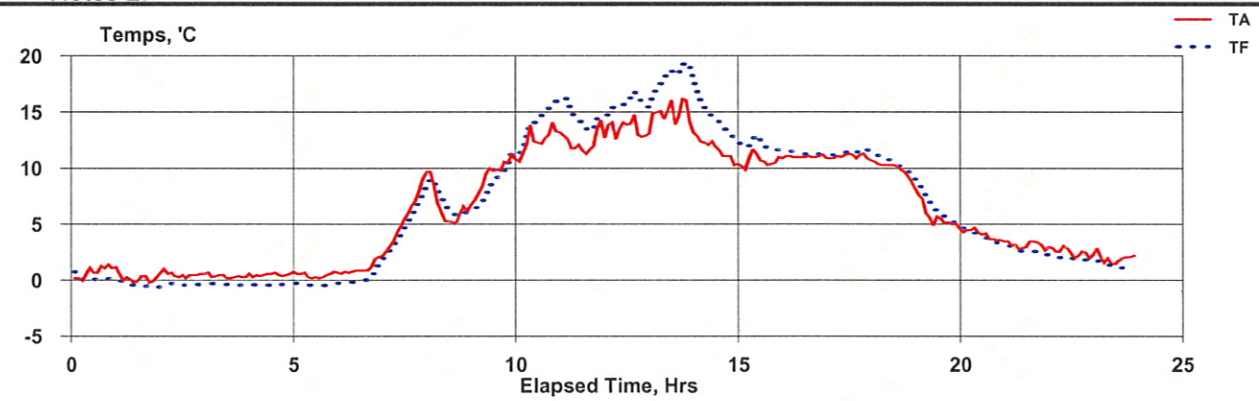
Timer Information:

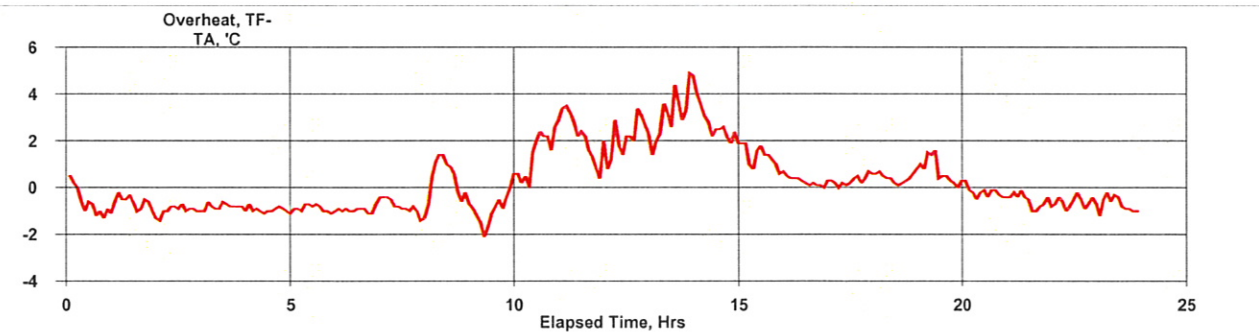
	Date dd-mmm	Time hh:mm:ss
Start:	16-12-apr	0:00:08
Stop:	16-13-apr	0:00:04
ET:	23:59	

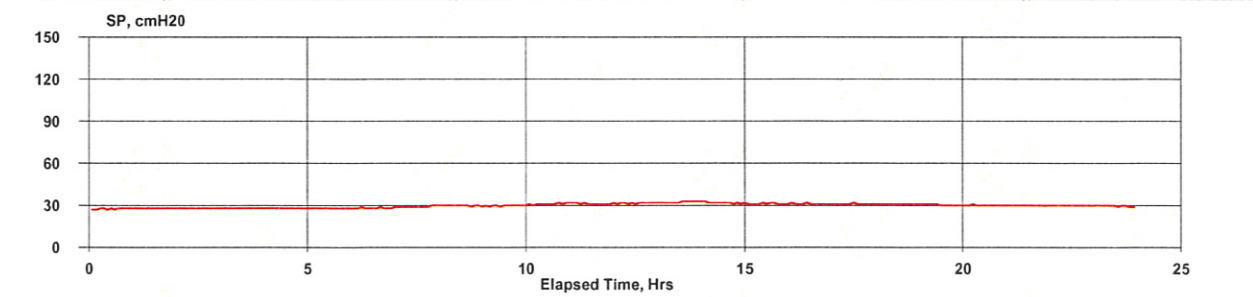
Mass Concentration Data:

Filter ID:	4	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-12-apr	0:05:08	585	0.8	0.2	-0.6	28	16.70
16-12-apr	1:05:08	585	0.2	-0.5	-0.7	28	16.72
16-12-apr	2:05:08	585	0.5	-0.4	-1.0	28	16.71
16-12-apr	3:05:08	585	0.4	-0.4	-0.8	28	16.71
16-12-apr	4:05:08	585	0.5	-0.4	-1.0	28	16.71
16-12-apr	5:05:08	585	0.5	-0.4	-0.9	28	16.71
16-12-apr	6:05:08	585	1.2	0.3	-0.9	28	16.71
16-12-apr	7:05:08	585	5.9	5.0	-0.9	29	16.72
16-12-apr	8:05:08	586	6.5	6.8	0.4	30	16.71
16-12-apr	9:05:08	586	9.6	8.8	-0.9	30	16.71
16-12-apr	10:05:08	586	12.6	14.2	1.6	31	16.71
16-12-apr	11:05:08	586	12.4	14.5	2.2	31	16.70
16-12-apr	12:05:08	585	13.6	15.7	2.2	32	16.71
16-12-apr	13:05:08	585	14.9	18.2	3.3	33	16.72
16-12-apr	14:05:08	585	11.6	14.3	2.6	32	16.72
16-12-apr	15:05:08	585	10.7	12.0	1.3	31	16.72
16-12-apr	16:05:08	585	11.0	11.3	0.2	31	16.72
16-12-apr	17:05:08	585	11.1	11.4	0.3	31	16.71
16-12-apr	18:05:08	585	9.9	10.3	0.4	31	16.71
16-12-apr	19:05:08	585	5.6	6.3	0.7	30	16.71
16-12-apr	20:05:08	586	4.1	3.9	-0.2	30	16.71
16-12-apr	21:05:08	586	3.2	2.6	-0.6	30	16.71
16-12-apr	22:05:08	586	2.5	1.9	-0.6	30	16.70
16-12-apr	23:05:08	586	2.0	1.3	-0.7	30	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 20 apr 09:15:13

Job Details:

Job Name:	16Apr20A.JOB
Version:	5.62
Serial No:	962
Pump Time:	7659:47
Flags:	

Job Code:	
Site Name:	962A
Station Code:	
Operators:	KN
User1:	
User2:	

	Max	Min	Avg	Units
BP	587	585	586	mmHg
TA	13.6	-4.8	3.9	°C
Q	---	---	16.7	Lpm

QCV	0.44 %
Max overheat	4.6 °C
occured	19-apr 19:27:27

Timer Information:

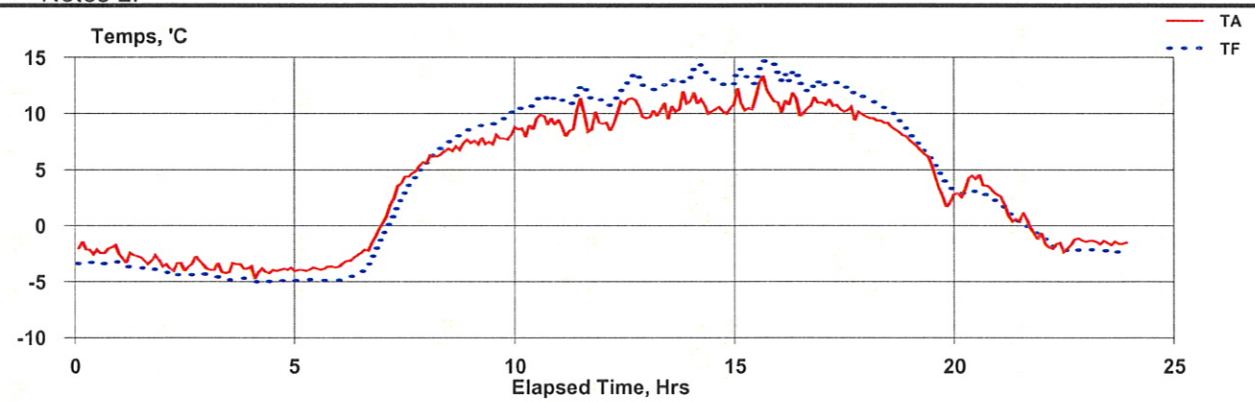
	Date dd-mmm	Time hh:mm:ss
Start:	16-18-apr	0:00:08
Stop:	16-19-apr	0:00:05
ET:	23:59	

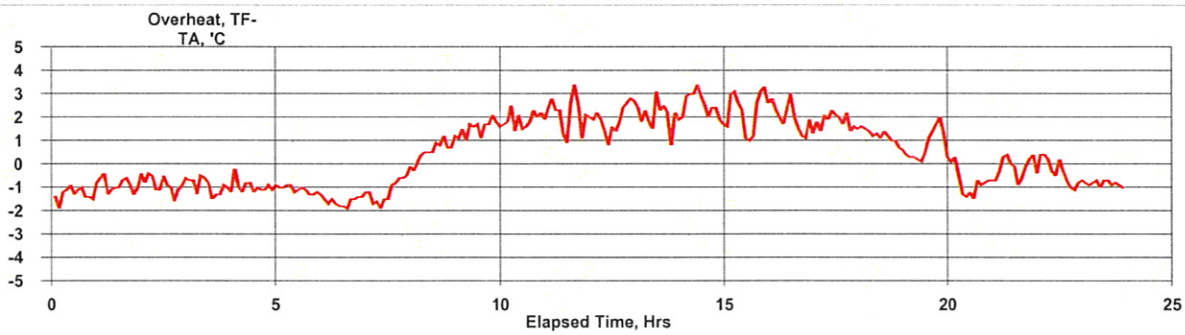
Mass Concentration Data:

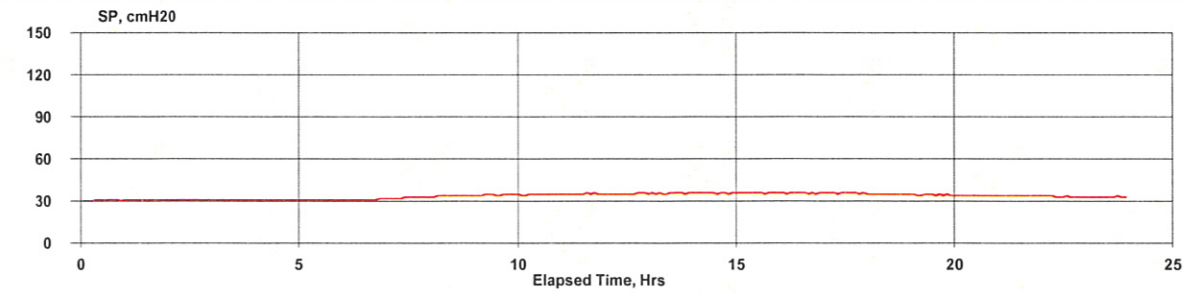
Filter ID:	13	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.03	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-18-apr	0:05:08	586	-2.1	-3.3	-1.3	31	16.71
16-18-apr	1:05:08	586	-3.0	-3.8	-0.9	31	16.72
16-18-apr	2:05:08	586	-3.5	-4.4	-0.9	31	16.71
16-18-apr	3:05:08	586	-3.7	-4.7	-1.0	31	16.72
16-18-apr	4:05:08	586	-4.0	-5.0	-0.9	31	16.71
16-18-apr	5:05:08	586	-3.8	-4.9	-1.1	31	16.72
16-18-apr	6:05:08	586	-2.0	-3.6	-1.6	31	16.71
16-18-apr	7:05:08	586	4.0	2.9	-1.1	33	16.70
16-18-apr	8:05:08	586	6.8	7.4	0.6	34	16.71
16-18-apr	9:05:08	586	7.8	9.3	1.6	35	16.73
16-18-apr	10:05:08	586	9.1	11.0	1.9	35	16.70
16-18-apr	11:05:08	586	9.2	11.4	2.2	35	16.70
16-18-apr	12:05:08	586	10.2	12.2	2.0	35	16.70
16-18-apr	13:05:08	586	10.5	12.6	2.1	36	16.69
16-18-apr	14:05:08	586	10.6	13.1	2.5	36	16.70
16-18-apr	15:05:08	586	11.5	13.8	2.3	36	16.72
16-18-apr	16:05:08	586	10.8	12.8	1.9	36	16.71
16-18-apr	17:05:08	586	10.4	12.2	1.8	36	16.71
16-18-apr	18:05:08	586	8.8	10.0	1.2	35	16.70
16-18-apr	19:05:08	586	4.7	5.5	0.8	35	16.70
16-18-apr	20:05:08	586	3.6	2.8	-0.8	34	16.71
16-18-apr	21:05:08	586	0.5	0.3	-0.2	34	16.72
16-18-apr	22:05:08	586	-1.6	-2.0	-0.4	33	16.70
16-18-apr	23:05:08	586	-1.5	-2.3	-0.8	33	16.71

BGI PQ200 Air Sampling System Downloaded 2016 25 apr 10:32:53

Job Details:

Job Name:	16Apr25A.JOB
Version:	5.62
Serial No:	962
Pump Time:	7683:46
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	582	576	579	mmHg
TA	16	-5.3	6.7	°C
Q	---	---	16.7	Lpm

QCV	0.38 %
Max overheat	3.8 °C
occured	24-apr 14:16:50

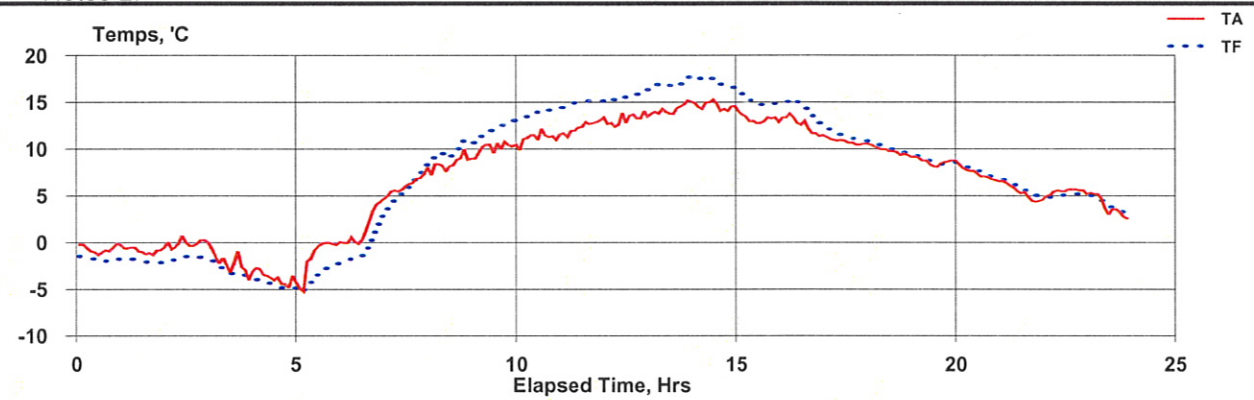
Timer Information:

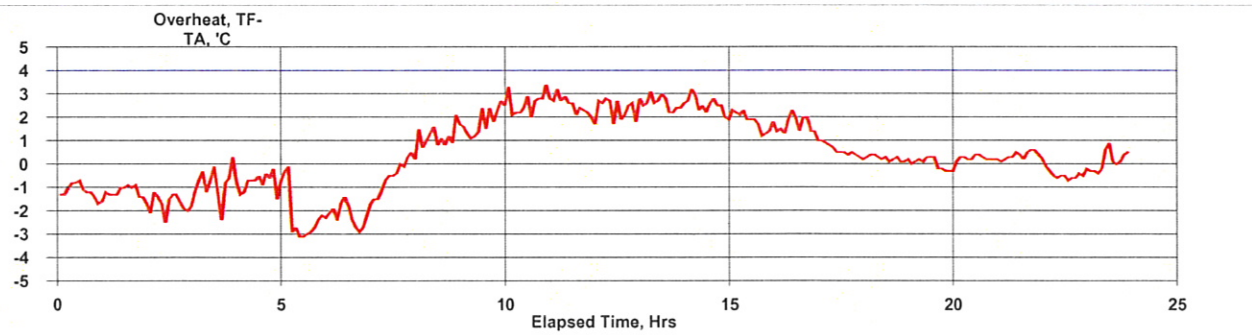
	Date dd-mmm	Time hh:mm:ss
Start:	16-24-apr	0:00:08
Stop:	16-25-apr	0:00:05
ET:	23:59	

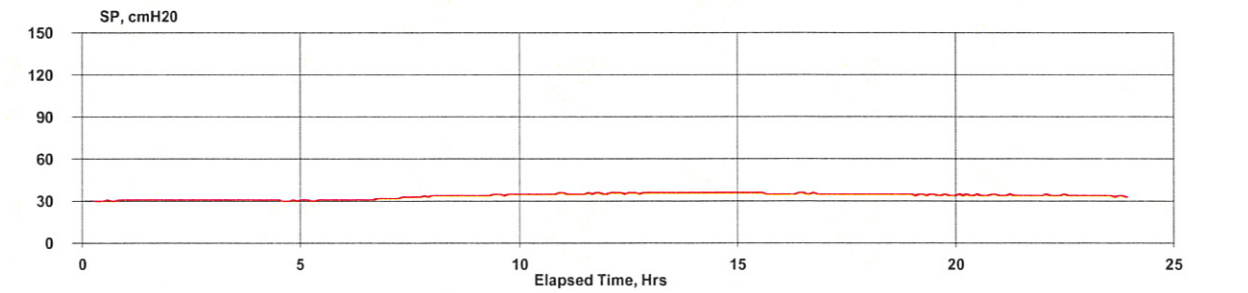
Mass Concentration Data:

Filter ID:	16	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.029	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:







16-24-apr	0:05:08	581	-0.6	-1.8	-1.2	30	16.71
16-24-apr	1:05:08	581	-0.8	-2.0	-1.2	31	16.71
16-24-apr	2:05:08	581	0.0	-1.7	-1.7	31	16.71
16-24-apr	3:05:08	581	-2.3	-3.1	-0.8	31	16.71
16-24-apr	4:05:08	581	-3.8	-4.5	-0.8	31	16.70
16-24-apr	5:05:08	581	-1.3	-3.6	-2.3	31	16.71
16-24-apr	6:05:08	581	1.8	-0.4	-2.2	31	16.71
16-24-apr	7:05:08	581	6.3	5.8	-0.4	33	16.71
16-24-apr	8:05:08	581	8.5	9.7	1.2	34	16.71
16-24-apr	9:05:08	581	10.2	12.1	1.9	35	16.69
16-24-apr	10:05:08	581	11.3	13.9	2.6	35	16.70
16-24-apr	11:05:08	581	12.5	14.9	2.5	35	16.70
16-24-apr	12:05:08	581	13.2	15.6	2.4	36	16.71
16-24-apr	13:05:08	580	14.3	16.9	2.6	36	16.71
16-24-apr	14:05:08	580	14.6	17.1	2.5	36	16.71
16-24-apr	15:05:08	579	13.2	15.1	1.8	36	16.71
16-24-apr	16:05:08	579	12.6	14.2	1.6	35	16.70
16-24-apr	17:05:08	579	10.8	11.4	0.6	35	16.71
16-24-apr	18:05:08	579	9.8	10.1	0.2	35	16.70
16-24-apr	19:05:08	578	8.7	8.7	0.0	34	16.70
16-24-apr	20:05:08	579	7.4	7.6	0.3	34	16.70
16-24-apr	21:05:08	579	5.3	5.7	0.4	34	16.71
16-24-apr	22:05:08	578	5.5	5.0	-0.5	34	16.71
16-24-apr	23:05:08	577	3.9	4.0	0.1	34	16.70

BGI PQ200 Air Sampling System Downloaded 2016 02 may 09:49:59

Job Details:

Job Name: 16May02A.JOB
Version: 5.62
Serial No: 962
Pump Time: 7707:45
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	580	577	578	mmHg
TA	8.9	-0.7	2.4	°C
Q	---	---	16.71	Lpm

QCV 0.54 %

Max overheat 3.6 °C
occured 30-apr 15:36:37

Timer Information:

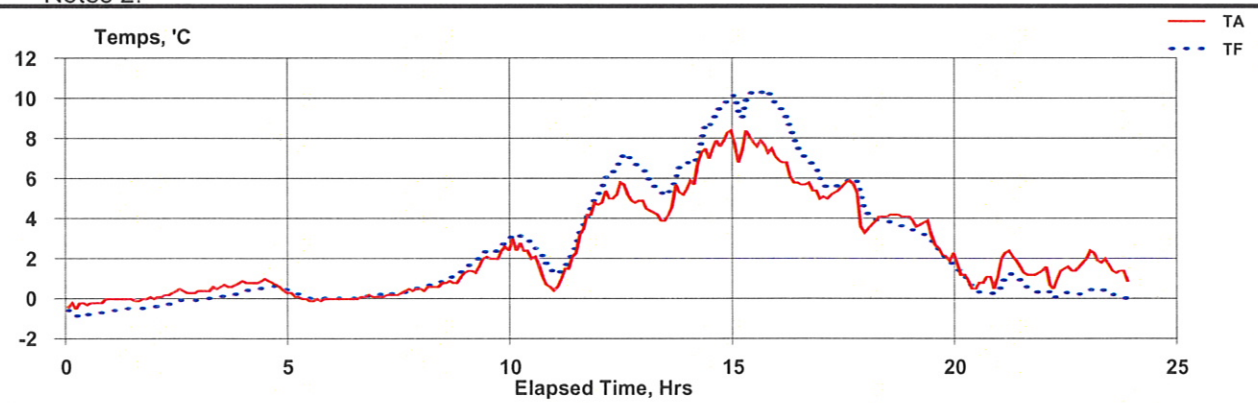
	Date dd-mmm	Time hh:mm:ss
Start:	16-30-apr	0:00:08
Stop:	16-01-may	0:00:05

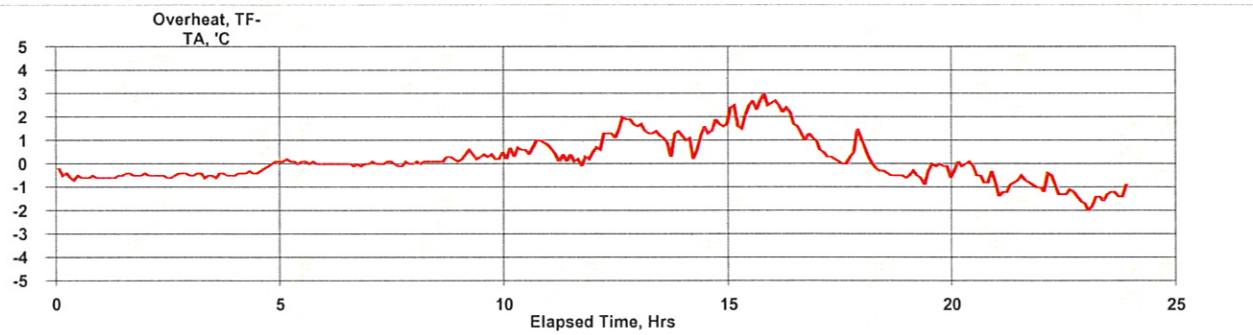
ET: 23:59

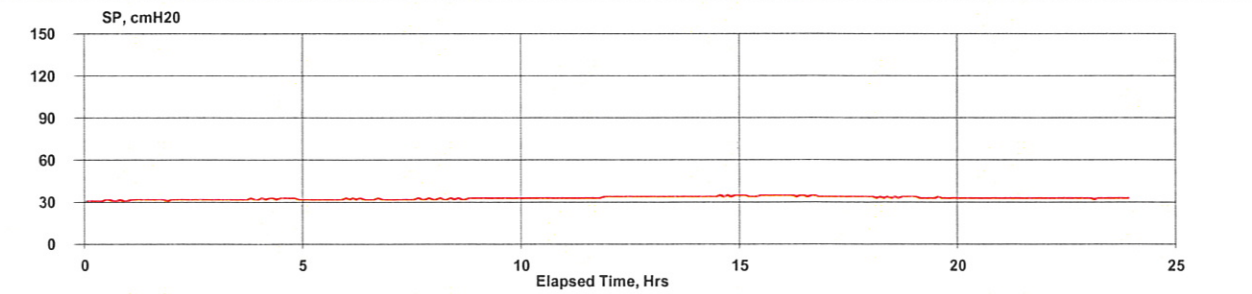
Mass Concentration Data:

Filter ID:	21	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.037	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-30-apr	0:05:08	579	-0.2	-0.8	-0.5	31	16.72
16-30-apr	1:05:08	578	0.0	-0.5	-0.5	32	16.71
16-30-apr	2:05:08	578	0.3	-0.2	-0.5	32	16.72
16-30-apr	3:05:08	578	0.6	0.1	-0.5	32	16.72
16-30-apr	4:05:08	578	0.7	0.5	-0.2	33	16.72
16-30-apr	5:05:08	578	0.0	0.1	0.1	32	16.71
16-30-apr	6:05:08	578	0.1	0.0	0.0	32	16.73
16-30-apr	7:05:08	578	0.3	0.3	0.0	32	16.73
16-30-apr	8:05:08	579	0.8	0.9	0.1	33	16.72
16-30-apr	9:05:08	579	1.9	2.3	0.3	33	16.72
16-30-apr	10:05:08	579	1.8	2.5	0.7	33	16.71
16-30-apr	11:05:08	579	2.8	3.1	0.3	33	16.72
16-30-apr	12:05:08	579	5.1	6.5	1.4	34	16.71
16-30-apr	13:05:08	579	4.6	5.9	1.2	34	16.71
16-30-apr	14:05:08	579	7.3	8.6	1.3	34	16.71
16-30-apr	15:05:08	579	7.6	10.0	2.4	35	16.71
16-30-apr	16:05:08	579	5.9	7.7	1.8	35	16.71
16-30-apr	17:05:08	579	5.1	5.6	0.5	34	16.71
16-30-apr	18:05:08	579	4.0	3.8	-0.2	34	16.71
16-30-apr	19:05:08	580	3.0	2.7	-0.3	33	16.71
16-30-apr	20:05:08	580	1.0	0.6	-0.3	33	16.71
16-30-apr	21:05:08	580	1.7	0.7	-0.9	33	16.72
16-30-apr	22:05:08	580	1.4	0.2	-1.2	33	16.73
16-30-apr	23:05:08	580	1.7	0.3	-1.4	33	16.71

BGI PQ200 Air Sampling System Downloaded 2016 09 may 15:22:25

Job Details:

Job Name:	16May09A.JOB
Version:	5.62
Serial No:	962
Pump Time:	7709:33
Flags:	T

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	581	578	579	mmHg
TA	13	8.9	11.1	°C
Q	---	---	16.71	Lpm

QCV	0.23 %
Max overheat	1.9 °C
occured	06-may 10:44:45

Timer Information:

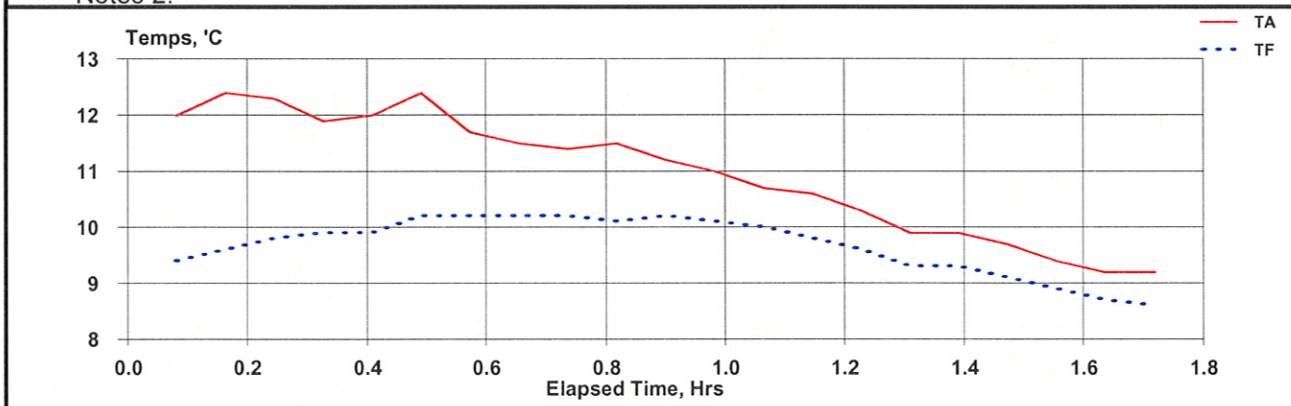
	Date dd-mmm	Time hh:mm:ss
Start:	16-06-may	0:00:08
Stop:	16-07-may	0:00:13
ET:	1:48	

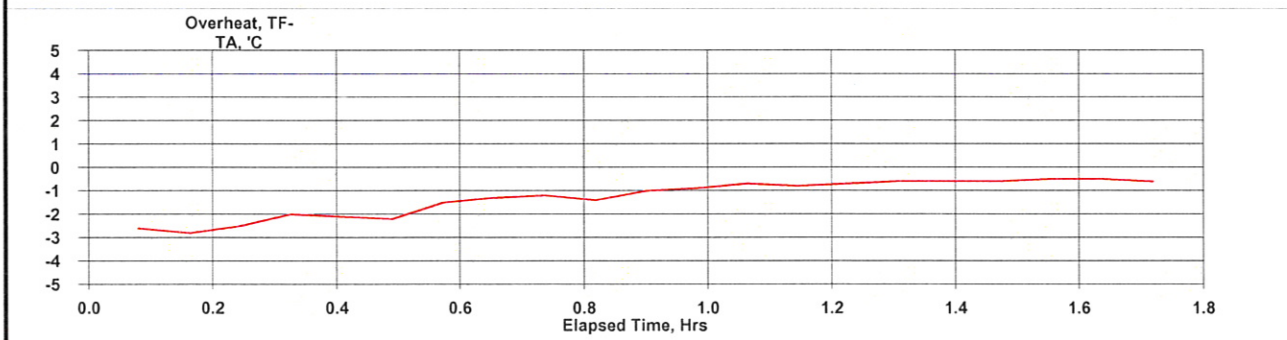
Mass Concentration Data:

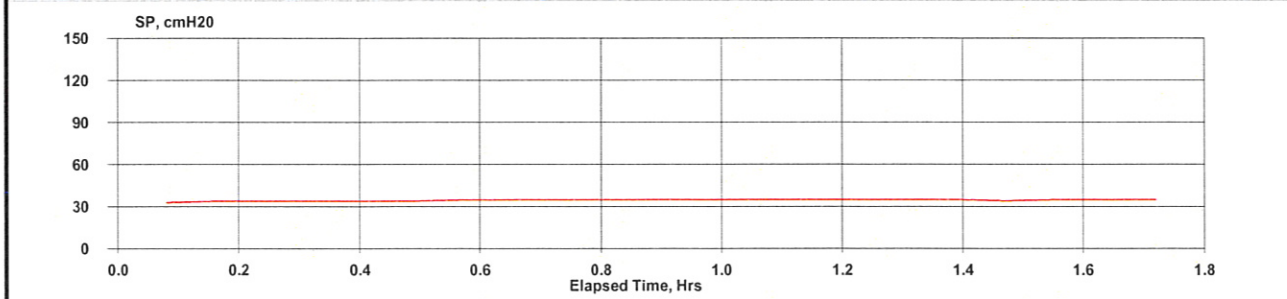
Filter ID:	26	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	1.818	m^3
Mass Conc:	0	ug/m3

Notes 1:

Notes 2:







16-06-may	0:05:08	580	11.8	10.0	-1.8	34	16.72
16-06-may	1:05:08	580	9.9	9.3	-0.6	35	16.71

BGI PQ200 Air Sampling System Downloaded 2016 13 may 07:19:17

Job Details:

Job Name:	16May13A.JOB	Job Code:	
Version:	5.62	Site Name:	962A
Serial No:	962	Station Code:	
Pump Time:	7733:33	Operators:	KN
Flags:		User1:	
		User2:	

	Max	Min	Avg	Units
BP	590	587	588	mmHg
TA	21.7	-1.3	10.9	°C
Q	---	---	16.7	Lpm

QCV	0.47 %
Max overheat	4.8 °C
occured	12-may 19:09:32

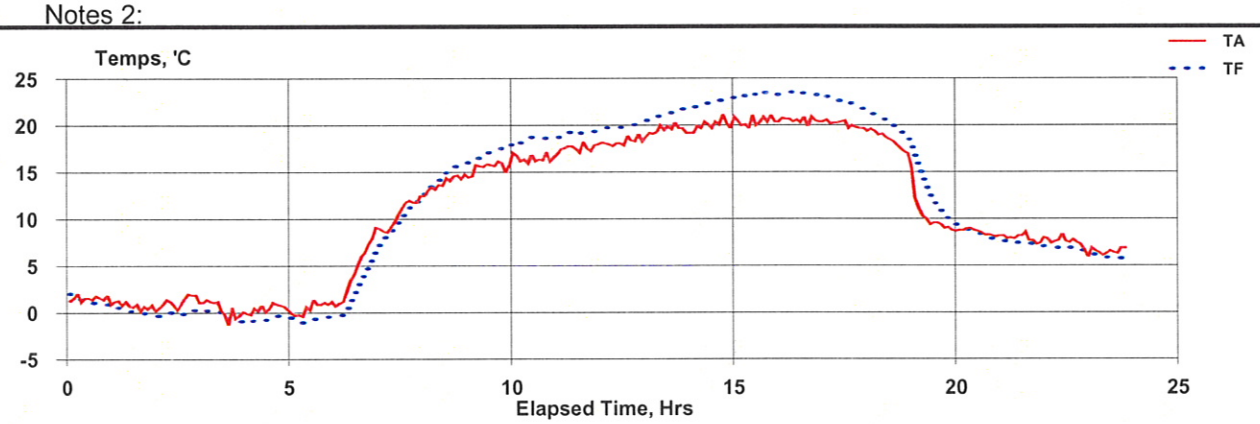
Timer Information:

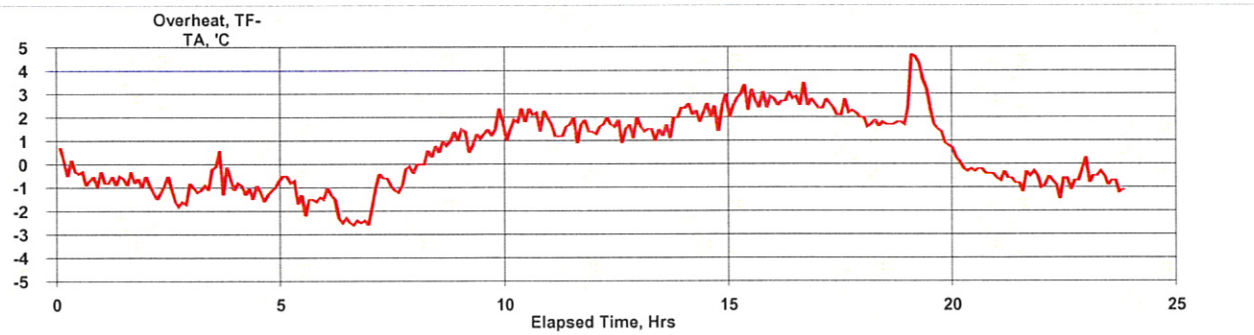
	Date dd-mmm	Time hh:mm:ss
Start:	16-12-may	0:00:00
Stop:	16-13-may	0:00:04
ET:	24:00:00	

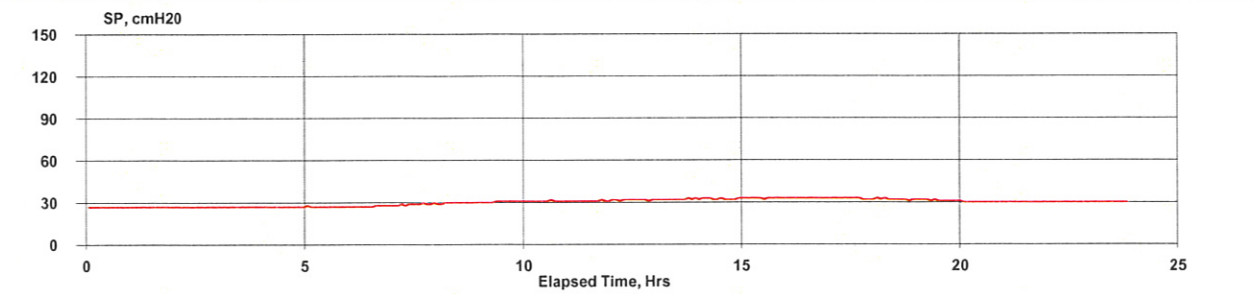
Mass Concentration Data:

Filter ID:	31	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-12-may	0:05:00	588	1.5	1.2	-0.3	27	16.71
16-12-may	1:05:00	588	0.7	0.1	-0.7	27	16.71
16-12-may	2:05:00	588	1.2	0.0	-1.2	27	16.70
16-12-may	3:05:00	588	0.4	-0.3	-0.7	27	16.71
16-12-may	4:05:00	588	0.5	-0.7	-1.1	27	16.71
16-12-may	5:05:00	588	0.5	-0.7	-1.3	27	16.71
16-12-may	6:05:00	589	4.6	2.4	-2.2	27	16.71
16-12-may	7:05:00	589	10.6	9.8	-0.8	29	16.72
16-12-may	8:05:00	589	13.9	14.5	0.6	30	16.71
16-12-may	9:05:00	589	15.6	16.9	1.4	31	16.71
16-12-may	10:05:00	589	16.5	18.4	1.9	31	16.72
16-12-may	11:05:00	589	17.6	19.1	1.5	31	16.71
16-12-may	12:05:00	589	18.3	19.9	1.6	32	16.72
16-12-may	13:05:00	589	19.5	21.1	1.6	32	16.72
16-12-may	14:05:00	588	20.0	22.3	2.3	32	16.70
16-12-may	15:05:00	588	20.5	23.2	2.7	33	16.72
16-12-may	16:05:00	588	20.5	23.3	2.8	33	16.70
16-12-may	17:05:00	588	20.1	22.5	2.4	33	16.71
16-12-may	18:05:00	588	18.5	20.2	1.8	32	16.72
16-12-may	19:05:00	588	10.4	13.0	2.6	31	16.70
16-12-may	20:05:00	588	8.6	8.5	-0.1	30	16.71
16-12-may	21:05:00	588	7.9	7.3	-0.6	30	16.70
16-12-may	22:05:00	588	7.6	6.8	-0.8	30	16.72
16-12-may	23:05:00	588	6.5	5.9	-0.7	30	16.70

BGI PQ200 Air Sampling System Downloaded 2016 20 may 04:30:15

Job Details:

Job Name: 16May20A.JOB
Version: 5.62
Serial No: 962
Pump Time: 7757:32
Flags: P

Job Code:
Site Name: 962A
Station Code:
Operators: KN
User1:
User2:

	Max	Min	Avg	Units
BP	585	583	584	mmHg
TA	14.3	0.9	7.9	°C
Q	---	---	16.71	Lpm

QCV 0.56 %

Max overheat 2.6 °C
occured 18-may 15:04:39

Timer Information:

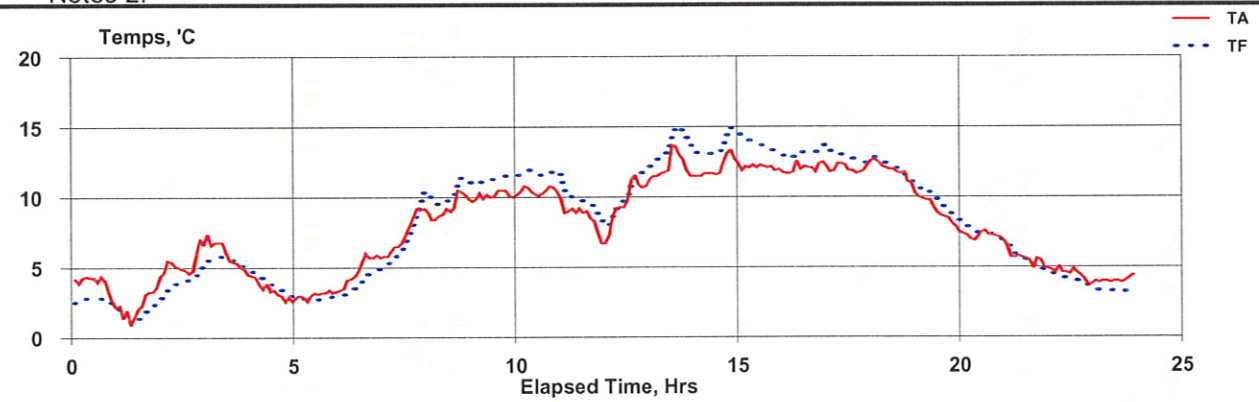
	Date dd-mmm	Time hh:mm:ss
Start:	16-18-may	0:00:08
Stop:	16-19-may	0:00:05

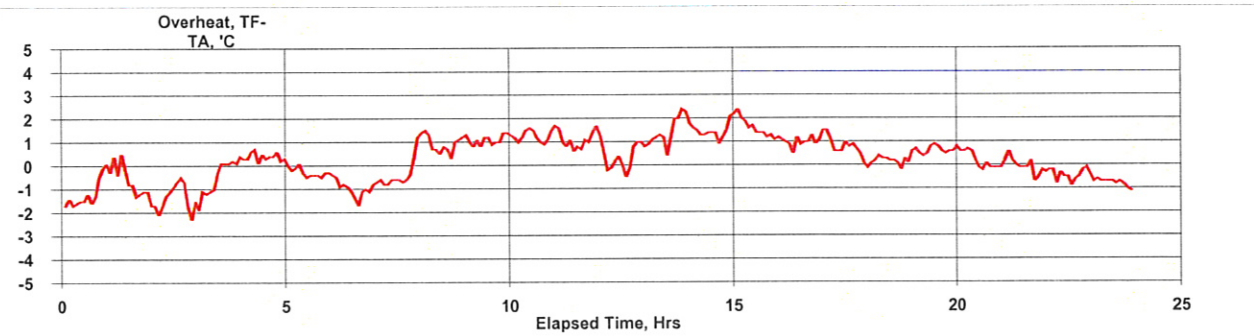
ET: 23:59

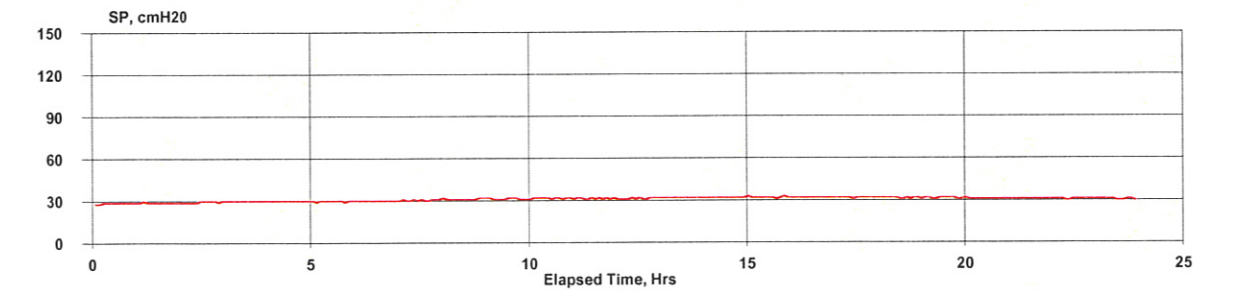
Mass Concentration Data:

Filter ID:	4	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.043	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:







16-18-may	0:05:08	584	3.8	2.7	-1.2	29	16.71
16-18-may	1:05:08	584	2.5	1.9	-0.7	29	16.71
16-18-may	2:05:08	584	5.4	4.0	-1.4	30	16.71
16-18-may	3:05:08	584	5.9	5.5	-0.5	30	16.71
16-18-may	4:05:08	584	3.4	3.8	0.4	30	16.71
16-18-may	5:05:08	584	3.1	2.8	-0.3	30	16.71
16-18-may	6:05:08	585	4.9	3.9	-1.0	30	16.71
16-18-may	7:05:08	585	7.4	7.0	-0.4	31	16.72
16-18-may	8:05:08	585	9.3	10.2	0.9	31	16.71
16-18-may	9:05:08	585	10.1	11.2	1.1	31	16.71
16-18-may	10:05:08	585	10.5	11.7	1.3	32	16.71
16-18-may	11:05:08	585	8.7	9.8	1.1	32	16.71
16-18-may	12:05:08	585	9.8	10.2	0.4	31	16.72
16-18-may	13:05:08	584	12.2	13.7	1.5	32	16.72
16-18-may	14:05:08	584	12.1	13.6	1.5	32	16.75
16-18-may	15:05:08	584	12.1	13.6	1.6	32	16.74
16-18-may	16:05:08	584	12.1	13.1	1.0	32	16.71
16-18-may	17:05:08	584	12.1	12.8	0.7	32	16.72
16-18-may	18:05:08	584	11.8	12.0	0.2	32	16.72
16-18-may	19:05:08	584	8.9	9.6	0.6	32	16.72
16-18-may	20:05:08	584	7.2	7.4	0.2	31	16.72
16-18-may	21:05:08	585	5.5	5.5	-0.1	31	16.71
16-18-may	22:05:08	585	4.5	4.0	-0.4	31	16.71
16-18-may	23:05:08	584	4.0	3.3	-0.8	31	16.72

BGI PQ200 Air Sampling System Downloaded 2016 25 may 10:06:17

Job Details:

Job Name:	16May25A.JOB
Version:	5.62
Serial No:	962
Pump Time:	7766:28
Flags:	T

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	581	579	579	mmHg
TA	11.5	-0.4	4.2	°C
Q	---	---	16.71	Lpm

QCV	0 %
Max overheat	3.5 °C
occured	24-may 11:53:28

Timer Information:

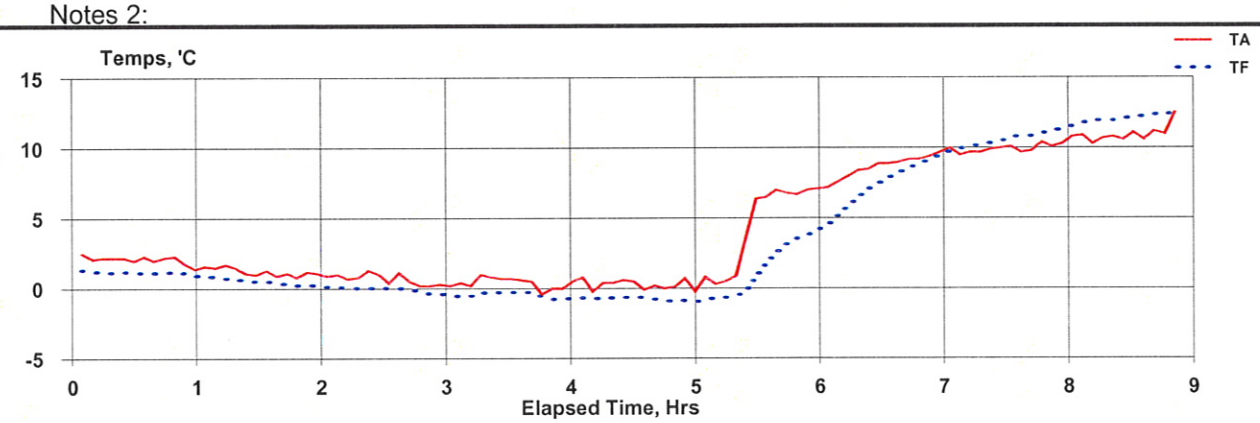
	Date dd-mmm	Time hh:mm:ss
Start:	16-24-may	0:00:08
Stop:	16-25-may	0:00:05
ET:	8:56	

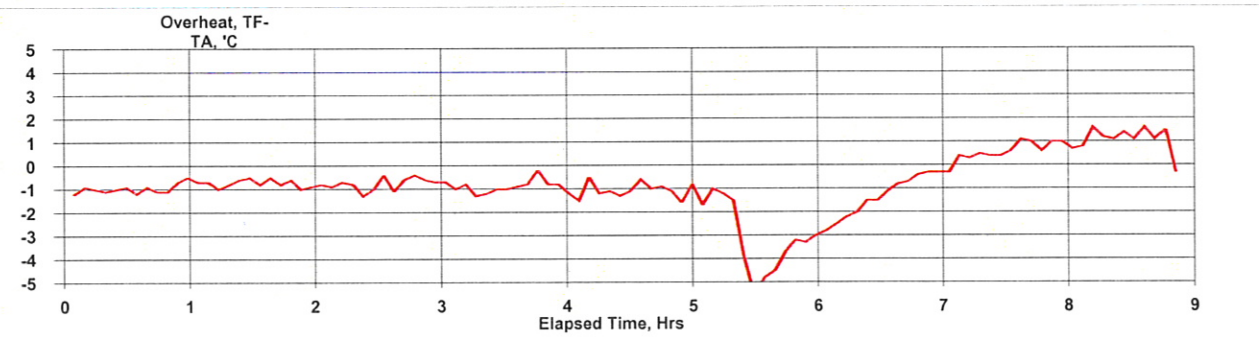
Mass Concentration Data:

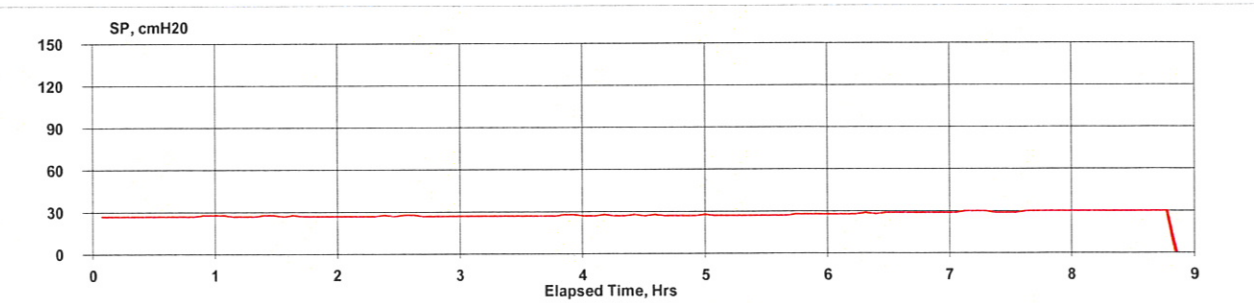
Filter ID:	9	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	8.962	m^3
Mass Conc:	0	ug/m3

Notes 1:

Notes 2:







16-24-may	0:05:08	580	2.1	1.1	-1.0	27	16.71
16-24-may	1:05:08	580	1.2	0.5	-0.7	27	16.72
16-24-may	2:05:08	580	0.7	-0.1	-0.8	27	16.71
16-24-may	3:05:08	580	0.4	-0.5	-0.9	27	16.72
16-24-may	4:05:08	580	0.3	-0.8	-1.1	27	16.72
16-24-may	5:05:08	580	3.9	0.9	-2.9	27	16.73
16-24-may	6:05:08	580	8.5	6.9	-1.6	29	16.72
16-24-may	7:05:08	580	9.9	10.4	0.5	30	16.72
16-24-may	8:05:08	581	10.8	11.9	1.2	30	16.72
16-25-may	9:53:41	584	12.5	12.2	-0.3		0.00

BGI PQ200 Air Sampling System

Downloaded 2016 06 jun 13:37:57

Job Details:

Job Name:	16Jun06A.JOB
Version:	5.62
Serial No:	962
Pump Time:	7814:26
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	587	583	585	mmHg
TA	31	7.6	21.1	°C
Q	---	---	16.7	Lpm

QCV	0.38	%
Max overheat	4.9	°C
occured	05-jun 19:33:02	

Timer Information:

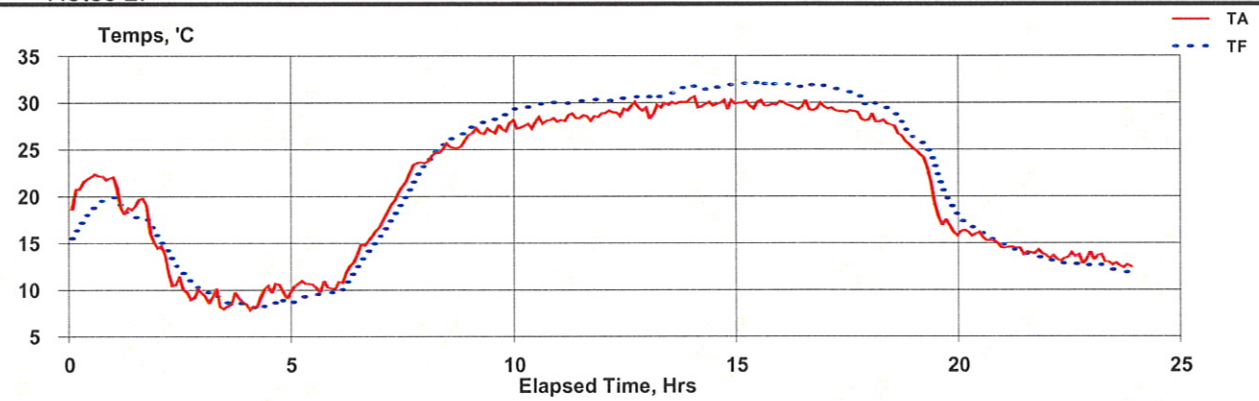
	Date dd-mmm	Time hh:mm:ss
Start:	16-05-jun	0:00:08
Stop:	16-06-jun	0:00:04
ET:	23:59	

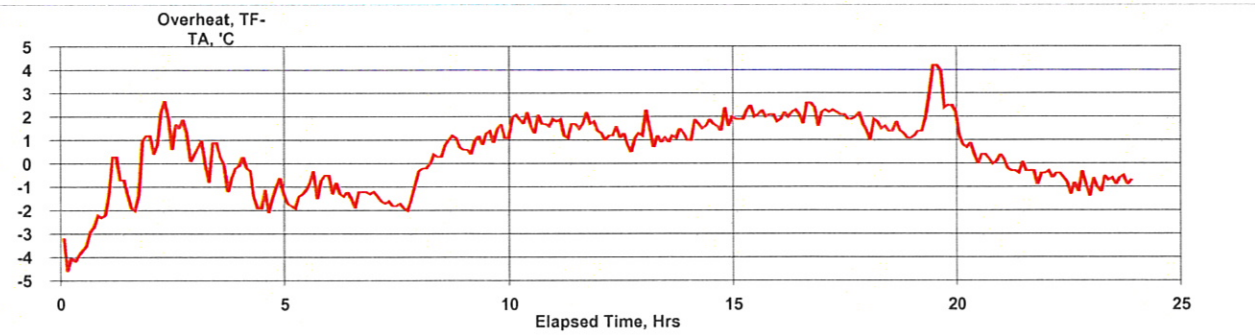
Mass Concentration Data:

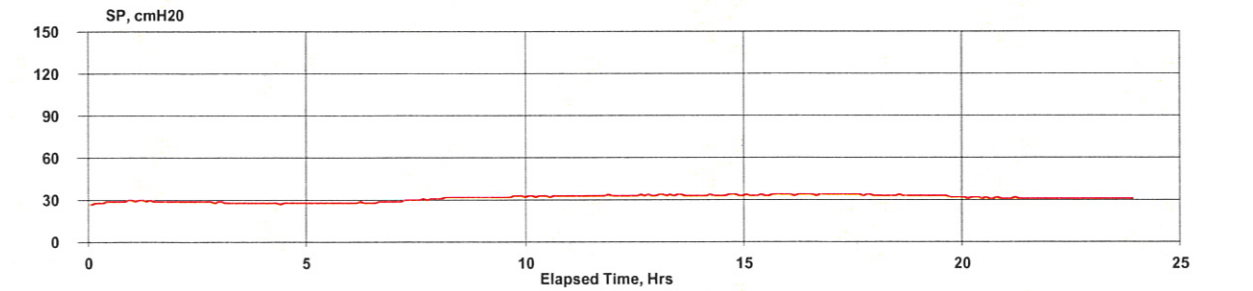
Filter ID:	36	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.028	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-05-jun	0:05:08	587	21.6	18.3	-3.3	29	16.70
16-05-jun	1:05:08	587	18.2	17.8	-0.4	29	16.71
16-05-jun	2:05:08	587	10.9	12.2	1.3	29	16.72
16-05-jun	3:05:08	586	8.9	9.0	0.1	28	16.72
16-05-jun	4:05:08	586	9.5	8.4	-1.1	28	16.71
16-05-jun	5:05:08	587	10.5	9.4	-1.1	28	16.71
16-05-jun	6:05:08	587	13.9	12.6	-1.3	29	16.71
16-05-jun	7:05:08	587	21.2	19.7	-1.5	30	16.71
16-05-jun	8:05:08	587	25.2	25.7	0.5	32	16.71
16-05-jun	9:05:08	587	27.2	28.3	1.1	32	16.72
16-05-jun	10:05:08	587	27.9	29.7	1.8	33	16.70
16-05-jun	11:05:08	586	28.5	30.2	1.6	33	16.69
16-05-jun	12:05:08	586	29.3	30.4	1.1	33	16.69
16-05-jun	13:05:08	586	29.8	31.0	1.2	33	16.71
16-05-jun	14:05:08	585	29.9	31.6	1.7	33	16.71
16-05-jun	15:05:08	585	29.9	32.0	2.1	34	16.70
16-05-jun	16:05:08	584	29.7	31.8	2.2	34	16.69
16-05-jun	17:05:08	584	28.9	31.0	2.0	34	16.70
16-05-jun	18:05:08	584	27.2	28.6	1.4	33	16.70
16-05-jun	19:05:08	584	19.9	22.5	2.6	33	16.70
16-05-jun	20:05:08	584	15.7	16.1	0.5	32	16.71
16-05-jun	21:05:08	584	14.2	13.9	-0.3	31	16.72
16-05-jun	22:05:08	584	13.5	12.8	-0.8	31	16.71
16-05-jun	23:05:08	584	13.0	12.2	-0.7	31	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 14 jun 12:35:41

Job Details:

Job Name:	16Jun14A.JOB
Version:	5.62
Serial No:	962
Pump Time:	7838:25
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	587	584	586	mmHg
TA	23.5	8.6	15.3	°C
Q	---	---	16.7	Lpm

QCV	0.53	%
Max overheat	5.2	°C
occured	11-jun 16:07:16	

Timer Information:

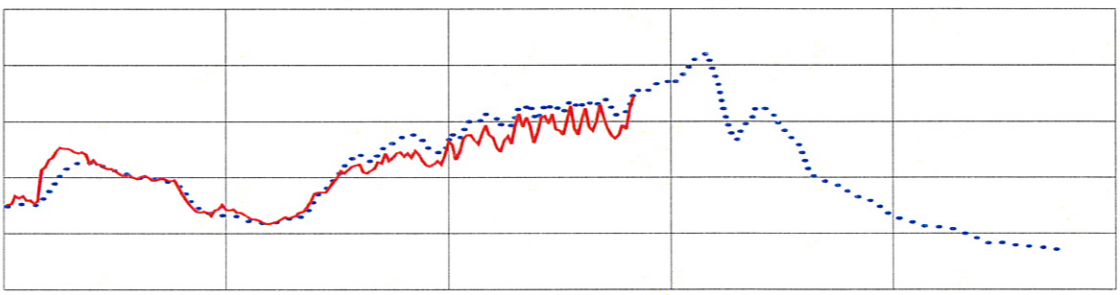
	Date dd-mmm	Time hh:mm:ss
Start:	16-11-jun	0:00:08
Stop:	16-12-jun	0:00:05
ET:	23:59	

Mass Concentration Data:

Filter ID:	21	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:



Overheat, TF-

16-11-jun	0:05:08	586	13.8	12.7	-1.1	25	16.71
16-11-jun	1:05:08	586	17.2	15.7	-1.5	26	16.71
16-11-jun	2:05:08	586	15.5	15.6	0.1	26	16.71
16-11-jun	3:05:08	586	14.7	14.6	-0.1	26	16.71
16-11-jun	4:05:08	586	12.2	12.1	-0.1	26	16.71
16-11-jun	5:05:08	586	11.5	11.2	-0.3	26	16.71
16-11-jun	6:05:08	586	11.9	11.5	-0.4	26	16.71
16-11-jun	7:05:08	586	15.0	15.3	0.3	26	16.71
16-11-jun	8:05:08	586	16.4	17.5	1.1	27	16.71
16-11-jun	9:05:08	586	16.8	17.9	1.2	27	16.71
16-11-jun	10:05:08	587	18.4	19.7	1.4	27	16.71
16-11-jun	11:05:08	587	18.9	20.4	1.5	28	16.71
16-11-jun	12:05:08	586	19.9	21.2	1.3	28	16.71
16-11-jun	13:05:08	586	19.7	21.3	1.6	28	16.73
16-11-jun	14:05:08	586	21.4	22.8	1.5	28	16.71
16-11-jun	15:05:08	586	22.0	24.8	2.8	29	16.72
16-11-jun	16:05:08	586	17.7	20.2	2.5	28	16.71
16-11-jun	17:05:08	586	17.5	19.3	1.8	28	16.71
16-11-jun	18:05:08	586	13.9	14.6	0.7	27	16.71
16-11-jun	19:05:08	586	12.3	12.6	0.3	27	16.71
16-11-jun	20:05:08	586	11.0	10.9	-0.1	27	16.71
16-11-jun	21:05:08	586	10.2	10.1	-0.1	26	16.71
16-11-jun	22:05:08	586	9.4	9.1	-0.4	26	16.71
16-11-jun	23:05:08	586	9.2	8.7	-0.5	26	16.70

BGI PQ200 Air Sampling System Downloaded 2016 20 jun 09:39:42

Job Details:

Job Name: 16Jun20A.JOB
Version: 5.62
Serial No: 962
Pump Time: 7862:24
Flags: F

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	589	585	587	mmHg
TA	26.9	5	15.7	°C
Q	---	---	16.71	Lpm

QCV 0.46 %

Max overheat 7.1 °C
occured 19-jun 19:38:43

Timer Information:

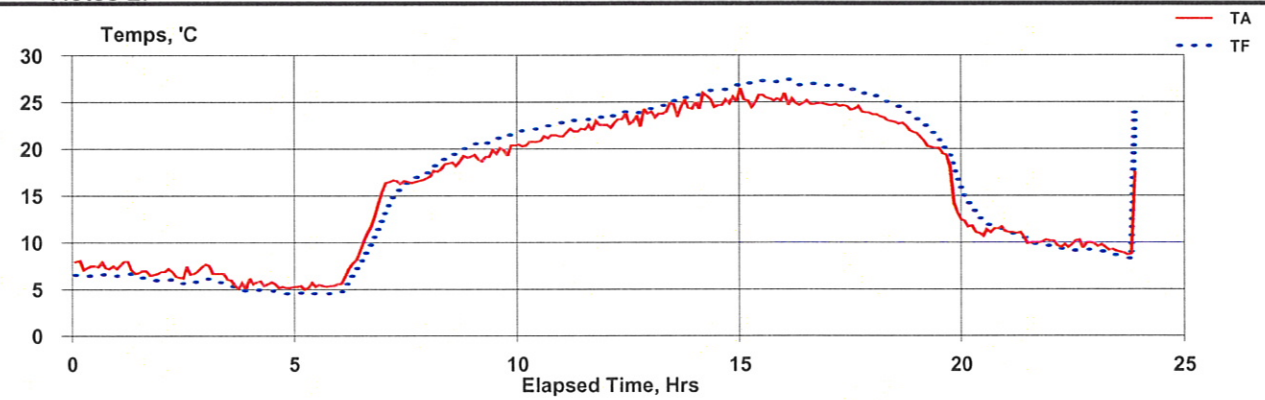
	Date dd-mmm	Time hh:mm:ss
Start:	16-17-jun	0:00:08
Stop:	16-18-jun	0:00:05

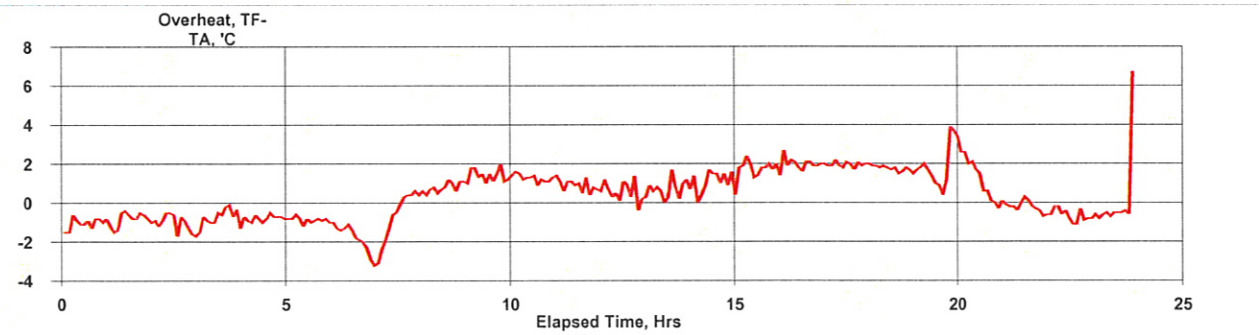
ET: 23:59

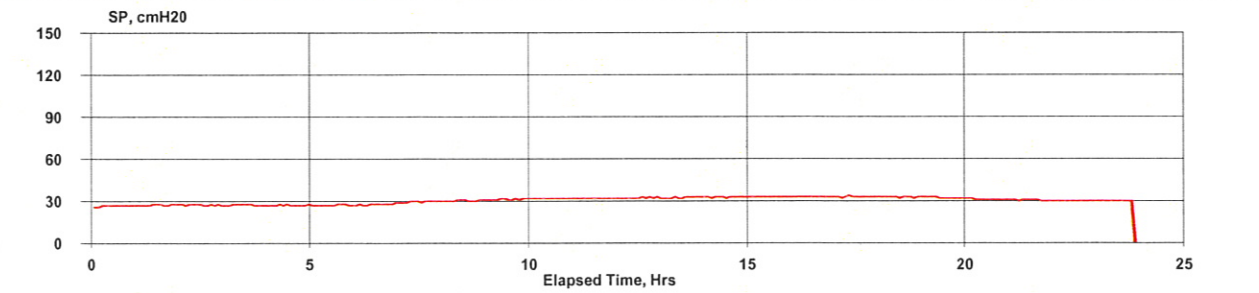
Mass Concentration Data:

Filter ID:	27	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.037	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-17-jun	0:05:08	587	7.5	6.5	-1.0	27	16.72
16-17-jun	1:05:08	586	7.1	6.2	-0.8	28	16.71
16-17-jun	2:05:08	586	6.9	5.9	-1.0	28	16.70
16-17-jun	3:05:08	587	6.2	5.4	-0.7	28	16.71
16-17-jun	4:05:08	587	5.5	4.7	-0.8	27	16.71
16-17-jun	5:05:08	587	5.4	4.5	-0.9	27	16.71
16-17-jun	6:05:08	587	10.0	8.2	-1.8	28	16.71
16-17-jun	7:05:08	588	16.6	15.9	-0.7	30	16.71
16-17-jun	8:05:08	588	18.4	19.2	0.8	30	16.71
16-17-jun	9:05:08	588	19.6	21.0	1.4	31	16.72
16-17-jun	10:05:08	588	21.0	22.2	1.3	32	16.73
16-17-jun	11:05:08	588	22.2	23.1	0.9	32	16.72
16-17-jun	12:05:08	588	23.1	23.7	0.6	32	16.70
16-17-jun	13:05:08	588	24.2	24.9	0.7	33	16.70
16-17-jun	14:05:08	588	25.1	26.2	1.1	33	16.73
16-17-jun	15:05:08	588	25.4	27.1	1.7	33	16.72
16-17-jun	16:05:08	588	25.0	27.0	2.0	33	16.70
16-17-jun	17:05:08	587	24.4	26.4	2.0	33	16.69
16-17-jun	18:05:08	588	22.9	24.7	1.8	33	16.72
16-17-jun	19:05:08	588	19.1	20.9	1.8	32	16.71
16-17-jun	20:05:08	588	11.5	12.9	1.4	31	16.71
16-17-jun	21:05:08	588	10.5	10.4	-0.2	31	16.73
16-17-jun	22:05:08	588	9.9	9.2	-0.6	30	16.71
16-17-jun	23:05:08	589	9.3	8.7	-0.6	30	16.71
16-19-jun	19:51:09	589	17.5	24.2	6.7		0.00

BGI PQ200 Air Sampling System Downloaded 2016 24 jun 11:12:31

Job Details:

Job Name: 16Jun24A.JOB
Version: 5.62
Serial No: 962
Pump Time: 7886:23
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	588	585	586	mmHg
TA	32.1	11.2	21.3	°C
Q	---	---	16.71	Lpm

QCV 0.44 %

Max overheat 3.8 °C
occured 23-jun 19:49:58

Timer Information:

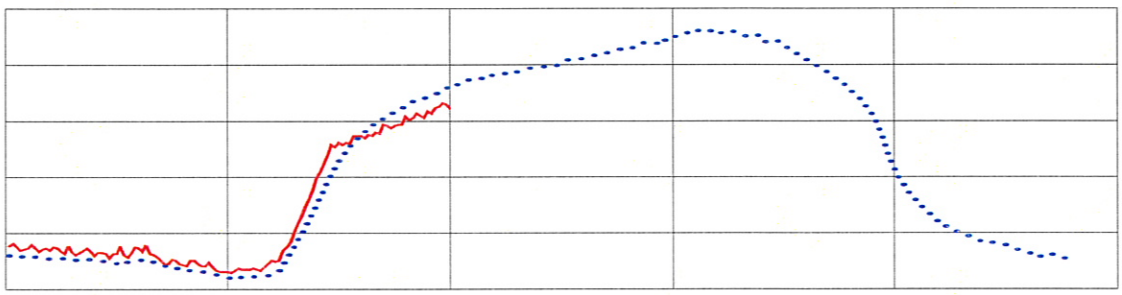
	Date dd-mmm	Time hh:mm:ss
Start:	16-23-jun	0:00:08
Stop:	16-24-jun	0:00:04

ET: 23:59

Mass Concentration Data:

Filter ID:	4	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.033	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:



Overheat, TF-

16-23-jun	0:05:08	587	13.7	12.9	-0.8	28	16.71
16-23-jun	1:05:08	587	13.4	12.7	-0.8	29	16.71
16-23-jun	2:05:08	587	13.3	12.5	-0.8	29	16.71
16-23-jun	3:05:08	587	12.8	12.2	-0.6	29	16.71
16-23-jun	4:05:08	587	12.1	11.4	-0.6	29	16.71
16-23-jun	5:05:08	587	11.9	11.1	-0.8	29	16.71
16-23-jun	6:05:08	587	15.7	14.2	-1.5	29	16.71
16-23-jun	7:05:08	588	22.7	21.3	-1.4	31	16.72
16-23-jun	8:05:08	588	24.3	25.2	0.9	32	16.72
16-23-jun	9:05:08	588	25.9	27.3	1.4	32	16.71
16-23-jun	10:05:08	588	27.2	28.6	1.5	33	16.72
16-23-jun	11:05:08	588	28.3	29.4	1.2	33	16.72
16-23-jun	12:05:08	588	29.3	30.2	0.9	33	16.71
16-23-jun	13:05:08	587	30.1	31.0	1.0	34	16.72
16-23-jun	14:05:08	587	30.3	31.9	1.6	34	16.71
16-23-jun	15:05:08	586	30.8	32.8	2.0	34	16.70
16-23-jun	16:05:08	586	30.3	32.7	2.4	34	16.69
16-23-jun	17:05:08	586	29.2	31.5	2.3	34	16.70
16-23-jun	18:05:08	586	27.2	29.1	1.9	34	16.69
16-23-jun	19:05:08	586	22.6	24.8	2.2	34	16.70
16-23-jun	20:05:08	586	16.6	17.8	1.2	33	16.72
16-23-jun	21:05:08	587	15.0	14.9	-0.1	32	16.72
16-23-jun	22:05:08	587	14.4	13.8	-0.6	32	16.72
16-23-jun	23:05:08	587	13.7	12.9	-0.8	32	16.71

BGI PQ200 Air Sampling System Downloaded 2016 01 jul 15:57:52

Job Details:

Job Name:	16Jul01A.JOB
Version:	5.62
Serial No:	962
Pump Time:	7910:22
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	590	586	588	mmHg
TA	31	10.1	22	°C
Q	---	---	16.71	Lpm

QCV	0.42	%
Max overheat	5.3	°C
occured	30-jun 15:32:20	

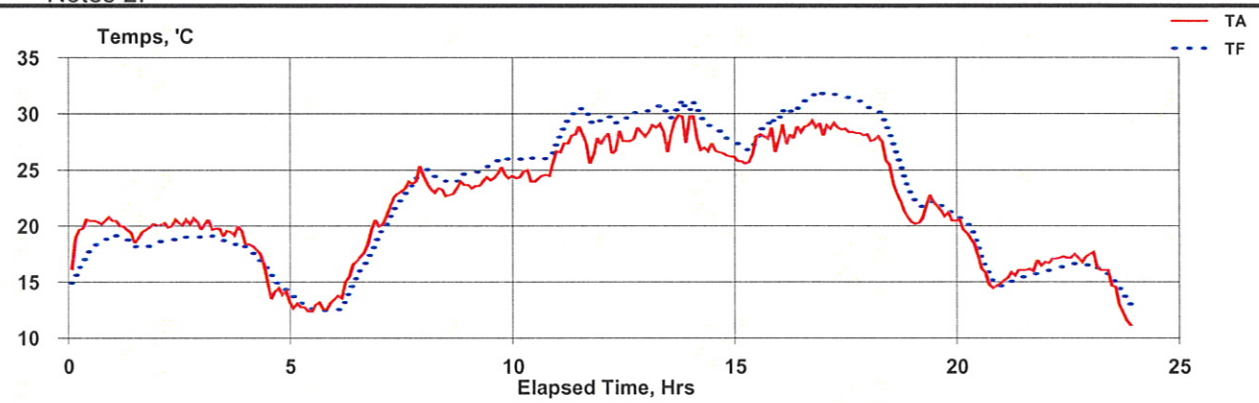
Timer Information:

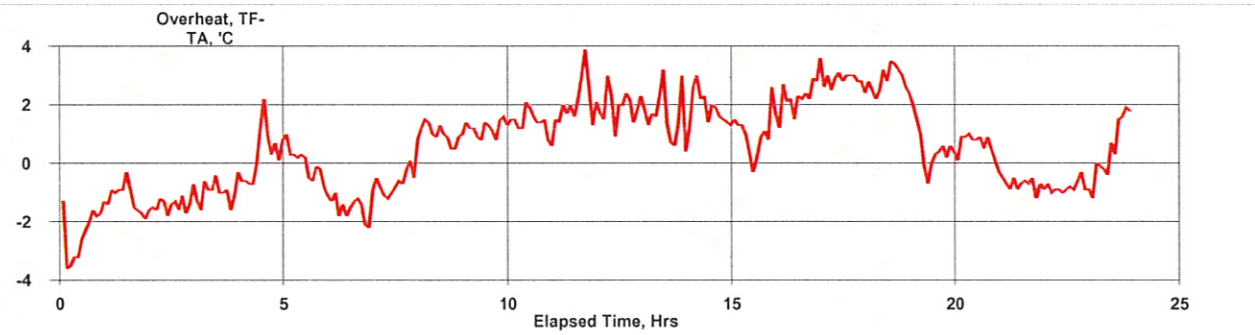
	Date dd-mmm	Time hh:mm:ss
Start:	16-29-jun	0:00:08
Stop:	16-30-jun	0:00:05
ET:	23:59	

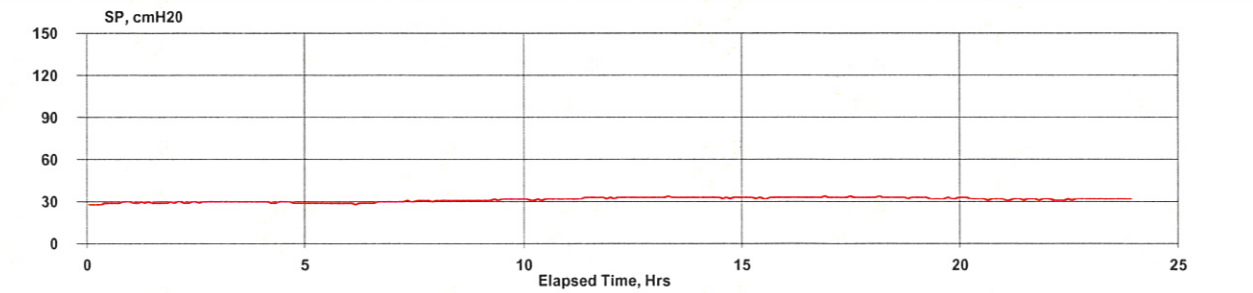
Mass Concentration Data:

Filter ID:	9	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.036	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-29-jun	0:05:08	589	19.9	17.6	-2.3	29	16.71
16-29-jun	1:05:08	589	19.7	18.5	-1.2	29	16.71
16-29-jun	2:05:08	588	20.2	18.9	-1.4	30	16.71
16-29-jun	3:05:08	588	19.6	18.7	-1.0	30	16.71
16-29-jun	4:05:08	589	15.6	15.9	0.3	30	16.71
16-29-jun	5:05:08	589	12.9	12.8	-0.1	29	16.72
16-29-jun	6:05:08	589	17.1	15.6	-1.5	29	16.70
16-29-jun	7:05:08	589	23.1	22.5	-0.5	31	16.71
16-29-jun	8:05:08	589	23.3	24.3	1.0	31	16.71
16-29-jun	9:05:08	590	24.2	25.4	1.2	32	16.71
16-29-jun	10:05:08	590	24.7	26.1	1.4	32	16.72
16-29-jun	11:05:08	589	27.5	29.6	2.1	33	16.71
16-29-jun	12:05:08	589	27.8	29.8	2.0	33	16.71
16-29-jun	13:05:08	588	28.7	30.4	1.6	33	16.71
16-29-jun	14:05:08	588	27.0	28.9	1.9	33	16.70
16-29-jun	15:05:08	587	27.0	28.1	1.0	33	16.71
16-29-jun	16:05:08	587	28.6	30.9	2.3	33	16.70
16-29-jun	17:05:08	587	28.6	31.4	2.8	33	16.70
16-29-jun	18:05:08	587	24.5	27.3	2.8	33	16.70
16-29-jun	19:05:08	587	21.2	21.7	0.5	32	16.70
16-29-jun	20:05:08	588	17.1	17.7	0.6	32	16.71
16-29-jun	21:05:08	588	16.1	15.3	-0.7	32	16.71
16-29-jun	22:05:08	588	17.2	16.4	-0.8	32	16.70
16-29-jun	23:05:08	588	14.5	15.1	0.5	32	16.71

Compliance Monitor 963B

PM_{10} Sampler Summary

April 1, 2016 - June 30, 2016

Network: **Alton Coal Development**
Site: Coal Hollow
Sampler ID: Coal Hollow-B **AQS ID:**
Sampler Type: BGI FRM Single

Date	Filter ID	Concentration (µg/m3) LTP	Concentration (µg/m3) STP	Sample Period (hr:min)	Sample Volume (m3)	Std Volume (m3)	Mass (mg) Tare	Gross	Net	Flag	Comments
04/06/16	P2929003	**6.6**	**8.0**	23:59	24.0	19.8	357.603	357.762	0.159		
04/12/16	P2929224	**5.9**	**7.2**	23:59	24.0	19.9	372.252	372.396	0.144		
04/18/16	P2929229	**15.2**	**18.2**	23:59	24.0	20.1	372.995	373.361	0.366	HT	
04/24/16	P2929388	**Invalid - AG**	**Invalid - AG**	34:43	34.8	28.5	374.939	375.170	0.231	SP,CI	
04/30/16	P2929393	**2.4**	**2.9**	23:59	24.0	20.0	398.449	398.508	0.059	HT	
05/06/16	P2929398	**14.4**	**17.7**	23:59	24.0	19.6	394.796	395.144	0.348	HT	
05/12/16	P2929631	**48.7**	**59.5**	23:59	24.0	19.7	377.198	378.369	1.171		
05/18/16	P2929816	**13.2**	**16.1**	23:59	24.0	19.7	398.149	398.467	0.318	HT	
05/24/16	P2929821	**29.8**	**36.5**	23:59	24.0	19.6	369.454	370.171	0.717		
05/30/16	P2929824	**7.4**	**9.2**	23:59	24.0	19.4	369.348	369.527	0.179	HT	
06/05/16	P2929637	**8.2**	**10.5**	23:59	24.0	18.9	380.649	380.848	0.199	XT	
06/11/16	P2930160	**9.8**	**12.2**	23:59	24.0	19.3	371.393	371.630	0.237	HT	
06/17/16	P2930166	**36.0**	**44.9**	23:59	24.0	19.3	373.859	374.725	0.866	HT	
06/23/16	P2930502	**49.5**	**62.9**	23:59	24.0	18.9	394.793	395.983	1.190		
06/29/16	P2930508	**48.6**	**61.5**	23:59	24.0	19.0	371.232	372.400	1.168		Filter darker, smudge
05/31/16	P2929636		**Field Blank**				376.063	376.101	0.038	XT,FBout	
06/06/16	P2930164		**Field Blank**				369.551	369.631	0.080	FBout	Specks

# Valid	Recovery	Average	St. Dev.	Max	Min
14	**93%**	**26.2**	**22.1**	**62.9**	**2.9**

BGI PQ200 Air Sampling System Downloaded 2016 02 apr 11:20:53

Job Details:

Job Name: 16Apr02B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3109:56
Flags:

Job Code:
Site Name: 963B
Station Code:
Operators: KN
User1: ++++++++++++++++++++++++++++++
User2:

	Max	Min	Avg	Units
BP	589	585	586	mmHg
TA	9.5	-4.7	2	°C
Q	---	---	16.7	Lpm

QCV 0.58 %

Max overheat 3.1 °C
occured 31-mar 14:53:54

Timer Information:

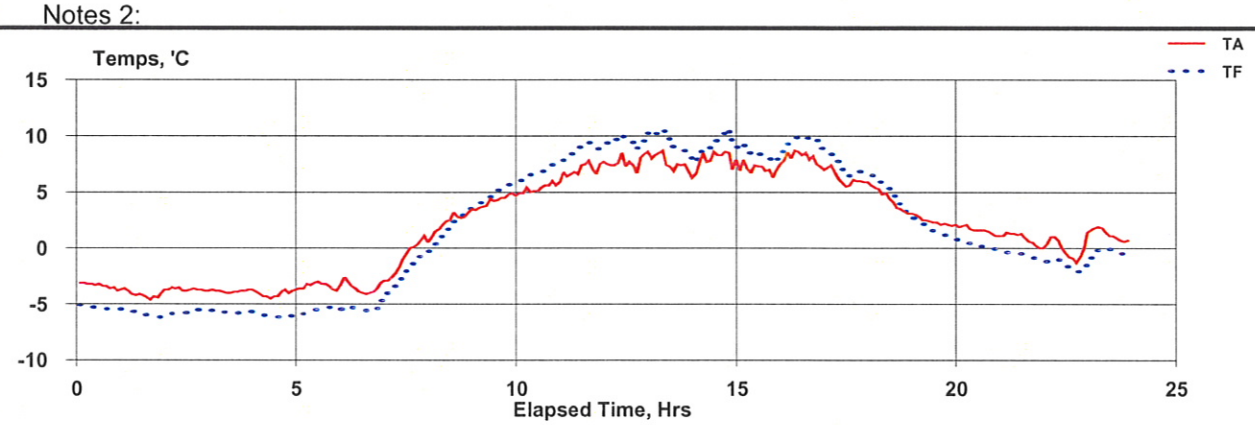
	Date dd-mmm	Time hh:mm:ss
Start:	16-31-mar	0:00:08
Stop:	16-01-apr	0:00:05

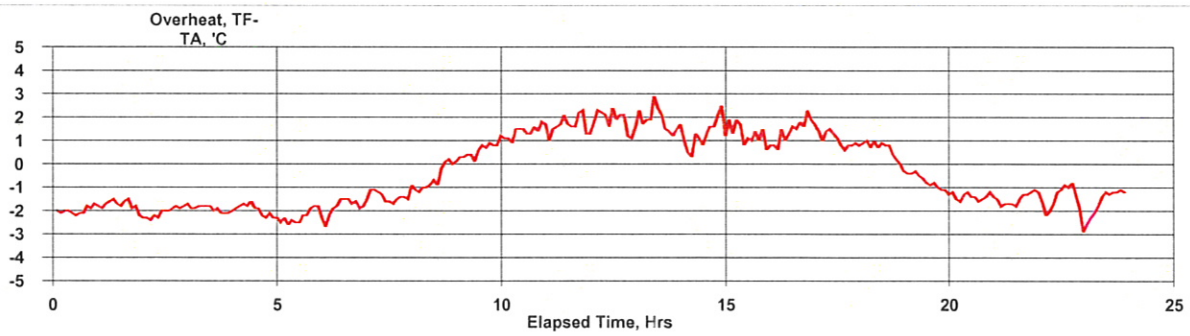
ET: 23:59

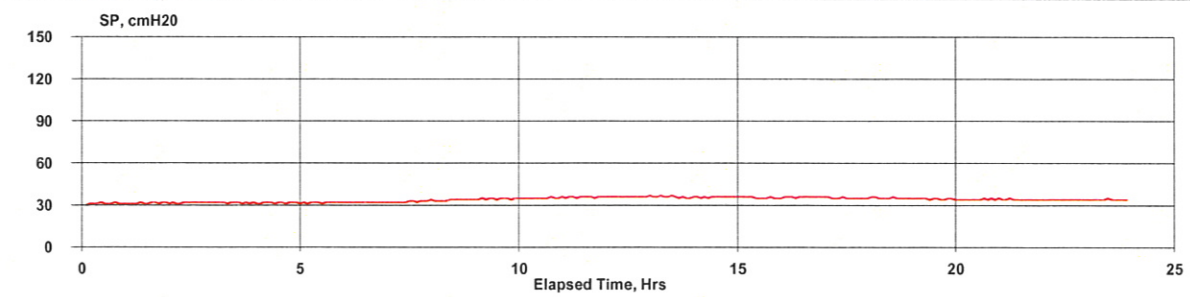
Mass Concentration Data:

Filter ID:	30	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.034	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-31-mar	0:05:08	587	-3.4	-5.4	-2.0	31	16.71
16-31-mar	1:05:08	587	-4.1	-5.9	-1.8	31	16.71
16-31-mar	2:05:08	587	-3.7	-5.7	-2.0	32	16.72
16-31-mar	3:05:08	587	-3.8	-5.8	-1.9	32	16.70
16-31-mar	4:05:08	586	-4.1	-6.1	-2.0	32	16.71
16-31-mar	5:05:08	587	-3.4	-5.6	-2.3	32	16.72
16-31-mar	6:05:08	587	-3.5	-5.3	-1.8	32	16.72
16-31-mar	7:05:08	586	-0.7	-2.0	-1.4	33	16.72
16-31-mar	8:05:08	587	2.5	1.9	-0.6	34	16.72
16-31-mar	9:05:08	587	4.2	4.8	0.6	35	16.74
16-31-mar	10:05:08	587	5.4	6.8	1.4	35	16.72
16-31-mar	11:05:08	587	7.1	8.7	1.7	36	16.71
16-31-mar	12:05:08	587	7.7	9.6	1.9	36	16.70
16-31-mar	13:05:08	587	7.6	9.4	1.9	36	16.73
16-31-mar	14:05:08	586	8.0	9.2	1.3	36	16.70
16-31-mar	15:05:08	586	7.1	8.4	1.3	35	16.71
16-31-mar	16:05:08	586	8.0	9.5	1.5	36	16.71
16-31-mar	17:05:08	587	6.2	7.2	1.0	35	16.71
16-31-mar	18:05:08	587	4.3	4.9	0.6	35	16.70
16-31-mar	19:05:08	587	2.4	1.6	-0.8	35	16.72
16-31-mar	20:05:08	588	1.6	0.2	-1.4	34	16.70
16-31-mar	21:05:08	588	0.8	-0.7	-1.5	34	16.71
16-31-mar	22:05:08	589	0.0	-1.5	-1.6	34	16.71
16-31-mar	23:05:08	589	1.2	-0.3	-1.6	34	16.71

BGI PQ200 Air Sampling System Downloaded 2016 07 apr 14:32:50

Job Details:

Job Name: 16Apr07B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3133:55
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ++++++++++++++++++++++++++++++
User2:

	Max	Min	Avg	Units
BP	598	594	596	mmHg
TA	21.7	-1	10.2	°C
Q	---	---	16.7	Lpm

QCV 0.56 %

Max overheat 2.6 °C
occured 06-apr 14:44:25

Timer Information:

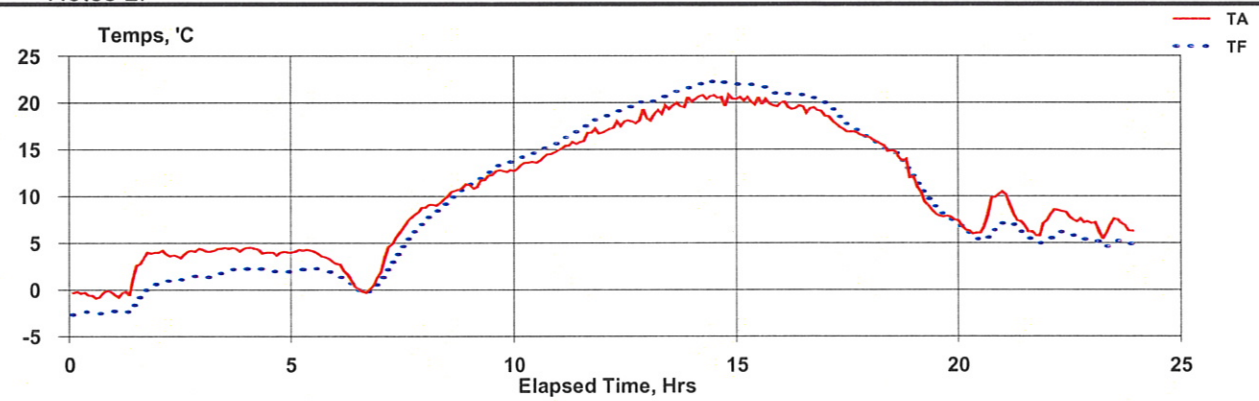
	Date dd-mmm	Time hh:mm:ss
Start:	16-06-apr	0:00:08
Stop:	16-07-apr	0:00:05

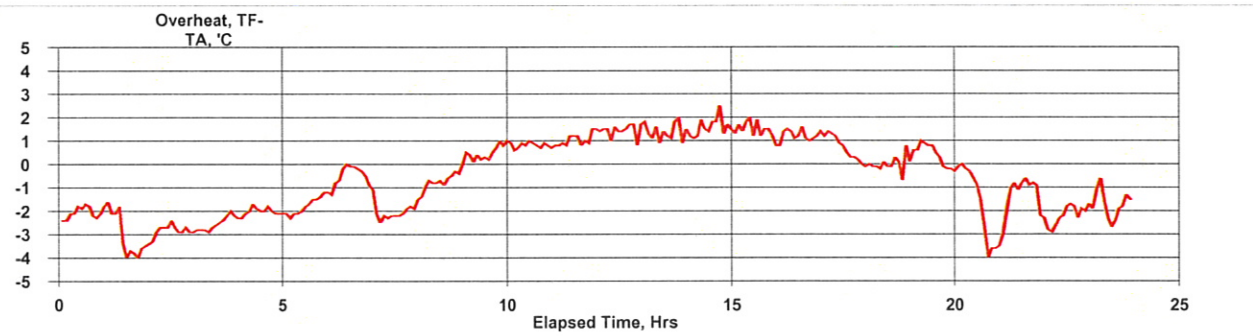
ET: 23:59

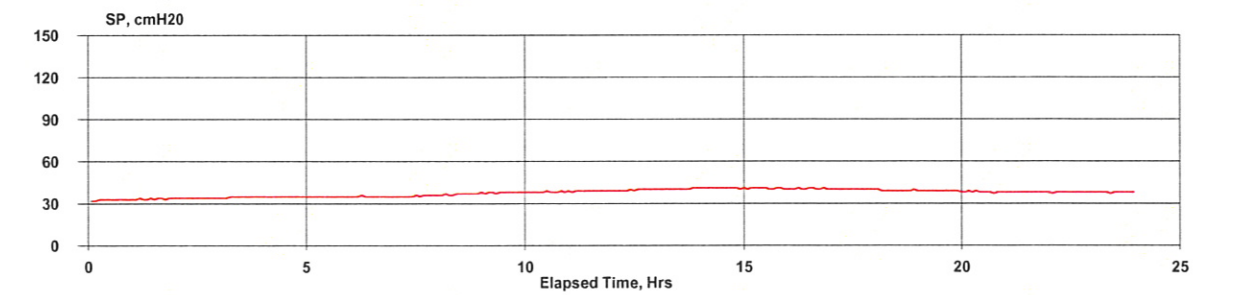
Mass Concentration Data:

Filter ID:	35	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:







16-06-apr	0:05:08	597	-0.4	-2.5	-2.1	33	16.71
16-06-apr	1:05:08	597	2.0	-1.1	-3.1	34	16.71
16-06-apr	2:05:08	597	3.9	1.1	-2.8	34	16.70
16-06-apr	3:05:08	596	4.3	1.8	-2.5	35	16.71
16-06-apr	4:05:08	596	4.1	2.1	-2.0	35	16.70
16-06-apr	5:05:08	597	3.8	2.0	-1.7	35	16.71
16-06-apr	6:05:08	597	0.9	0.4	-0.5	35	16.71
16-06-apr	7:05:08	597	6.7	4.6	-2.1	36	16.71
16-06-apr	8:05:08	597	10.1	9.4	-0.7	37	16.71
16-06-apr	9:05:08	597	12.2	12.7	0.5	38	16.71
16-06-apr	10:05:08	597	14.0	14.8	0.8	38	16.71
16-06-apr	11:05:08	597	16.1	17.2	1.1	39	16.71
16-06-apr	12:05:08	597	17.9	19.3	1.4	40	16.71
16-06-apr	13:05:08	596	19.5	20.8	1.4	40	16.71
16-06-apr	14:05:08	596	20.5	22.1	1.6	41	16.69
16-06-apr	15:05:08	595	20.1	21.6	1.5	41	16.70
16-06-apr	16:05:08	595	19.4	20.6	1.2	40	16.70
16-06-apr	17:05:08	595	17.1	17.8	0.7	40	16.71
16-06-apr	18:05:08	595	14.4	14.5	0.0	39	16.71
16-06-apr	19:05:08	595	8.6	9.0	0.4	39	16.71
16-06-apr	20:05:08	595	7.8	6.0	-1.8	38	16.71
16-06-apr	21:05:08	595	7.3	5.9	-1.4	38	16.71
16-06-apr	22:05:08	595	7.8	5.6	-2.2	38	16.71
16-06-apr	23:05:08	595	6.7	5.0	-1.7	38	16.71

BGI PQ200 Air Sampling System Downloaded 2016 13 apr 13:43:43

Job Details:

Job Name: 16Apr13B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3157:54
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ++++++++++++++++++++++++++++++
User2:

	Max	Min	Avg	Units
BP	592	589	591	mmHg
TA	16.2	-1.1	6.5	°C
Q	---	---	16.71	Lpm

QCV 0.58 %

Max overheat 2.7 °C
occured 12-apr 11:16:19

Timer Information:

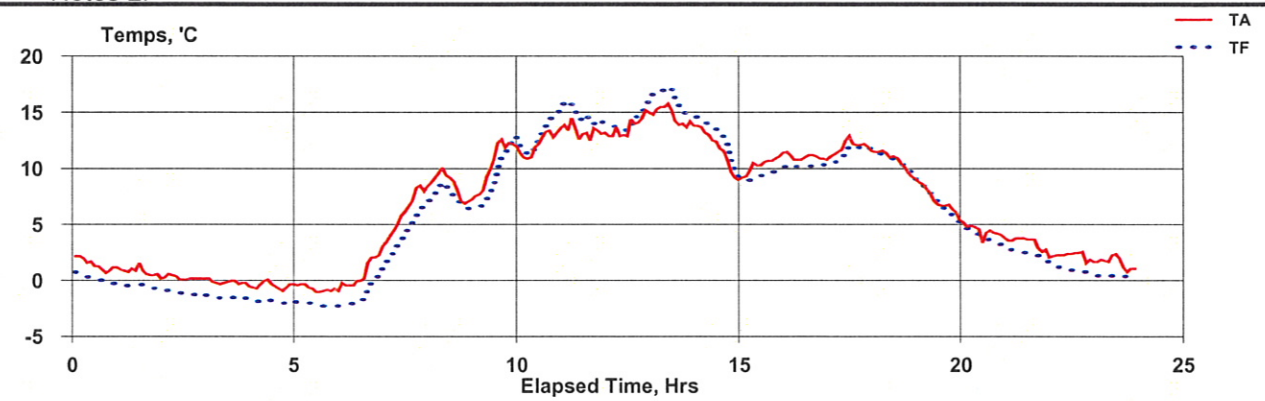
	Date dd-mmm	Time hh:mm:ss
Start:	16-12-apr	0:00:08
Stop:	16-13-apr	0:00:05

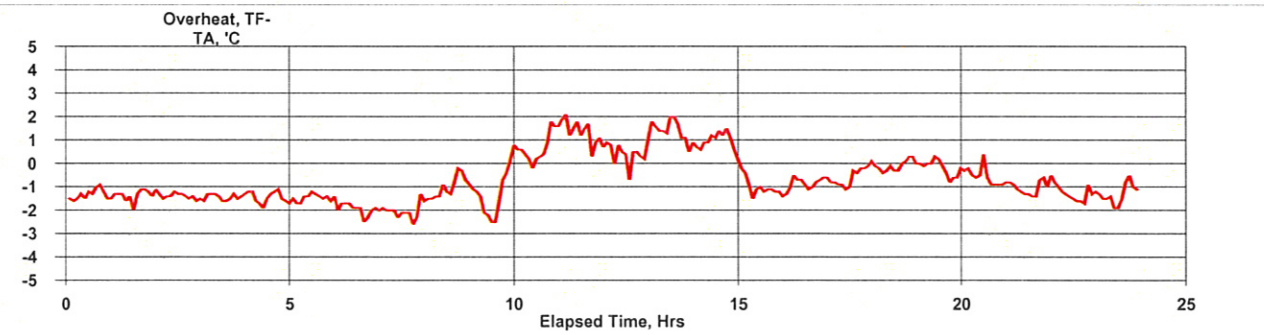
ET: 23:59

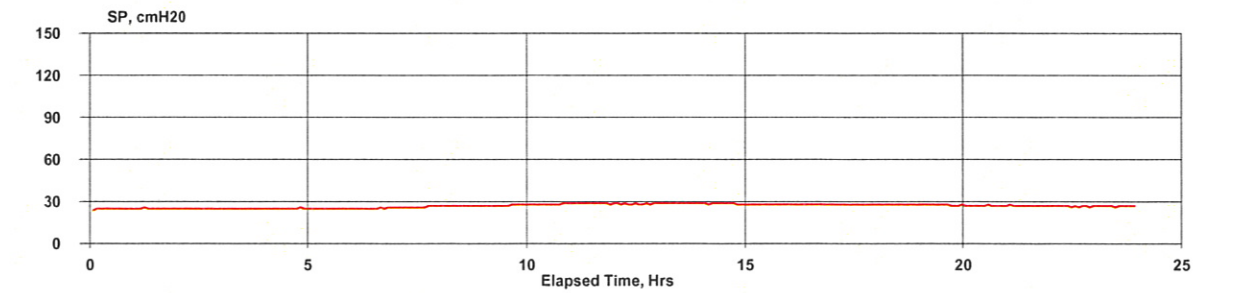
Mass Concentration Data:

Filter ID:	5	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-12-apr	0:05:08	591	1.4	0.1	-1.3	25	16.71
16-12-apr	1:05:08	591	0.8	-0.5	-1.3	25	16.71
16-12-apr	2:05:08	591	0.3	-1.1	-1.4	25	16.71
16-12-apr	3:05:08	591	-0.2	-1.6	-1.4	25	16.72
16-12-apr	4:05:08	591	-0.4	-1.9	-1.5	25	16.71
16-12-apr	5:05:08	591	-0.7	-2.2	-1.5	25	16.71
16-12-apr	6:05:08	591	0.8	-1.1	-2.0	25	16.71
16-12-apr	7:05:08	592	6.4	4.3	-2.0	26	16.71
16-12-apr	8:05:08	592	8.5	7.5	-1.0	27	16.71
16-12-apr	9:05:08	592	10.6	9.3	-1.2	27	16.71
16-12-apr	10:05:08	592	12.3	13.0	0.7	28	16.70
16-12-apr	11:05:08	592	13.3	14.7	1.3	29	16.70
16-12-apr	12:05:08	591	13.8	14.2	0.4	29	16.72
16-12-apr	13:05:08	591	14.7	16.1	1.4	29	16.70
16-12-apr	14:05:08	591	11.7	12.7	1.0	29	16.70
16-12-apr	15:05:08	591	10.4	9.4	-1.0	28	16.71
16-12-apr	16:05:08	591	11.0	10.2	-0.8	28	16.71
16-12-apr	17:05:08	591	11.9	11.4	-0.6	28	16.71
16-12-apr	18:05:08	591	10.6	10.5	-0.1	28	16.71
16-12-apr	19:05:08	591	7.1	6.9	-0.2	28	16.71
16-12-apr	20:05:08	592	4.4	3.9	-0.6	27	16.71
16-12-apr	21:05:08	592	3.3	2.3	-1.0	27	16.72
16-12-apr	22:05:08	592	2.2	0.9	-1.3	27	16.71
16-12-apr	23:05:08	592	1.6	0.3	-1.3	27	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 20 apr 09:41:29

Job Details:

Job Name: 16Apr20B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3181:53
Flags:

Job Code:
Site Name: 963B
Station Code:
Operators: KN
User1: ++++++++++++++++++++++++++++++
User2:

	Max	Min	Avg	Units
BP	593	590	592	mmHg
TA	14.6	-5.2	4.9	°C
Q	---	---	16.7	Lpm

QCV	0.5	%
Max overheat	3.5	°C
occured	18-apr 14:07:35	

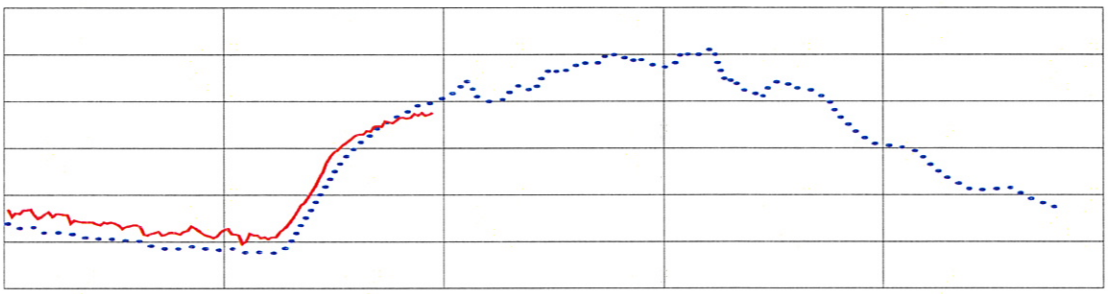
Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	16-18-apr	0:00:08
Stop:	16-19-apr	0:00:05
ET:	23:59	

Mass Concentration Data:

Filter ID:	963B	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.037	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:



Overheat, TF-

16-18-apr	0:05:08	593	-1.9	-3.6	-1.7	28	16.70
16-18-apr	1:05:08	593	-2.6	-4.3	-1.8	28	16.70
16-18-apr	2:05:08	593	-3.2	-4.8	-1.7	28	16.71
16-18-apr	3:05:08	592	-4.1	-5.6	-1.5	28	16.72
16-18-apr	4:05:08	592	-4.0	-5.8	-1.8	28	16.72
16-18-apr	5:05:08	592	-4.4	-6.0	-1.6	28	16.71
16-18-apr	6:05:08	593	-2.4	-4.5	-2.1	28	16.71
16-18-apr	7:05:08	593	4.3	2.4	-1.9	30	16.72
16-18-apr	8:05:08	593	7.4	7.1	-0.3	30	16.71
16-18-apr	9:05:08	593	8.6	9.5	0.9	31	16.71
16-18-apr	10:05:08	593	9.6	10.9	1.4	32	16.71
16-18-apr	11:05:08	593	9.6	10.8	1.2	32	16.71
16-18-apr	12:05:08	593	11.7	12.9	1.3	32	16.70
16-18-apr	13:05:08	592	12.2	14.4	2.2	32	16.71
16-18-apr	14:05:08	592	12.4	14.1	1.8	32	16.70
16-18-apr	15:05:08	592	13.0	14.7	1.6	32	16.70
16-18-apr	16:05:08	592	11.3	12.5	1.3	32	16.70
16-18-apr	17:05:08	592	10.9	11.4	0.5	32	16.71
16-18-apr	18:05:08	592	9.9	10.5	0.5	32	16.71
16-18-apr	19:05:08	592	7.0	6.4	-0.6	31	16.71
16-18-apr	20:05:08	592	6.0	4.8	-1.2	31	16.71
16-18-apr	21:05:08	593	2.3	1.7	-0.6	31	16.72
16-18-apr	22:05:08	593	2.4	0.6	-1.8	30	16.72
16-18-apr	23:05:08	592	0.2	-0.7	-0.8	30	16.71

BGI PQ200 Air Sampling System Downloaded 2016 25 apr 10:45:01

Job Details:

Job Name: 16Apr25B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3216:36
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ++++++++++++++++++++++++++++++
User2:

	Max	Min	Avg	Units
BP	588	579	584	mmHg
TA	17.4	-3	6.4	°C
Q	---	---	16.7	Lpm

QCV 1.44 %

Max overheat 2.9 °C
occured 24-apr 13:50:12

Timer Information:

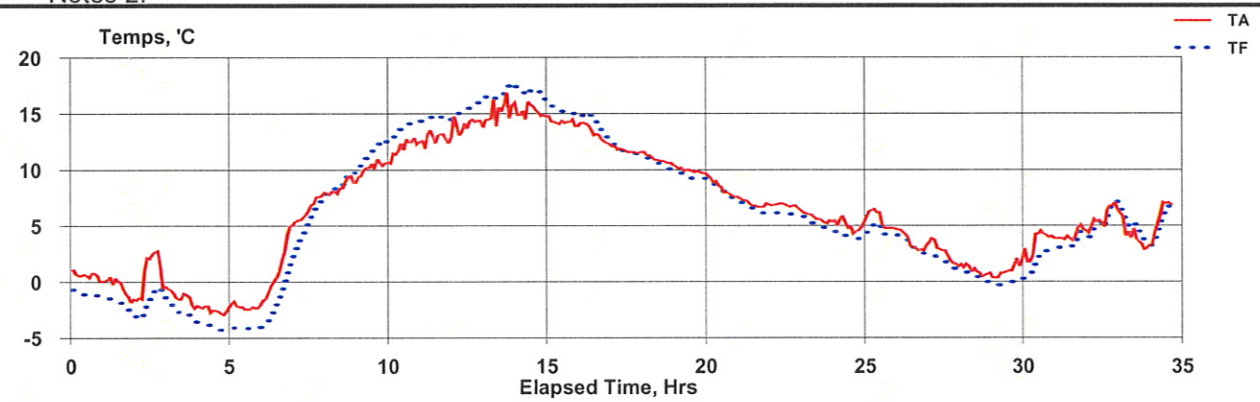
	Date dd-mmm	Time hh:mm:ss
Start:	16-24-apr	0:00:08
Stop:	16-25-apr	10:44:03

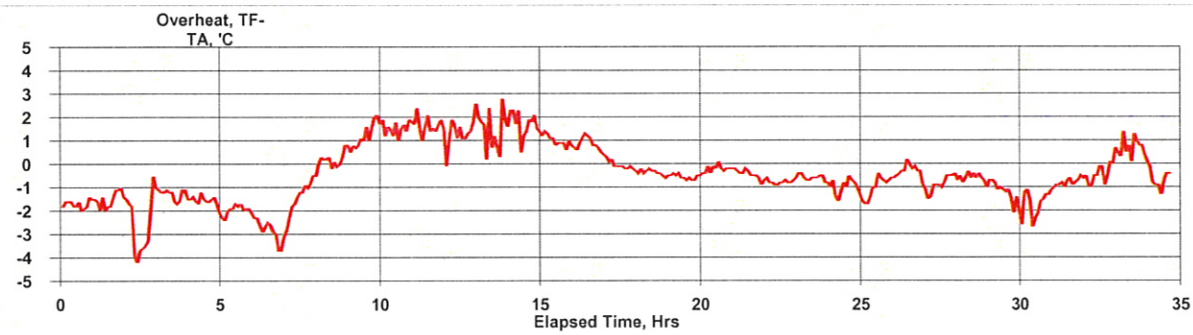
ET: 34:43:00

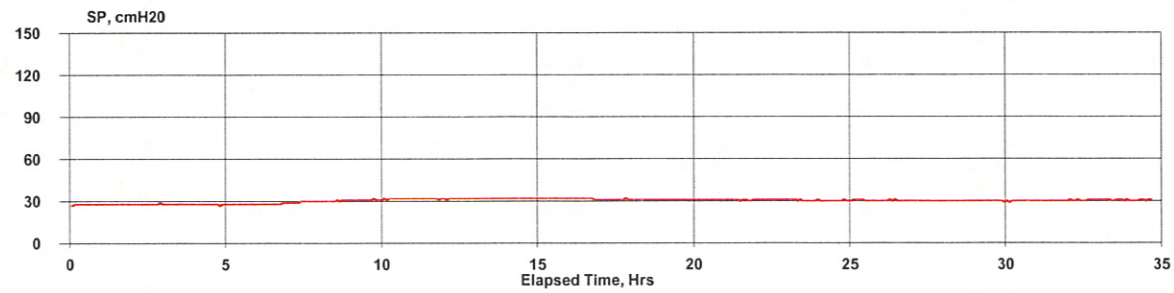
Mass Concentration Data:

Filter ID:	17	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	34.787	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-24-apr	0:05:08	588	0.6	-1.1	-1.7	28	16.71
16-24-apr	1:05:08	588	-0.4	-1.9	-1.5	28	16.70
16-24-apr	2:05:08	587	0.8	-1.8	-2.6	28	16.71
16-24-apr	3:05:08	587	-1.4	-2.7	-1.3	28	16.71
16-24-apr	4:05:08	587	-2.5	-4.0	-1.6	28	16.71
16-24-apr	5:05:08	587	-2.2	-4.1	-2.0	28	16.71
16-24-apr	6:05:08	587	1.4	-1.5	-2.9	28	16.71
16-24-apr	7:05:08	587	6.6	5.3	-1.3	30	16.71
16-24-apr	8:05:08	588	8.5	8.8	0.2	30	16.71
16-24-apr	9:05:08	588	10.3	11.5	1.2	31	16.70
16-24-apr	10:05:08	588	12.1	13.6	1.5	32	16.71
16-24-apr	11:05:08	587	12.9	14.5	1.6	32	16.71
16-24-apr	12:05:08	587	14.1	15.5	1.4	32	16.73
16-24-apr	13:05:08	586	15.3	16.8	1.4	32	16.69
16-24-apr	14:05:08	586	15.2	16.9	1.7	32	16.70
16-24-apr	15:05:08	586	14.3	15.3	1.0	32	16.71
16-24-apr	16:05:08	586	13.3	14.1	0.8	32	16.70
16-24-apr	17:05:08	585	11.7	11.7	-0.1	31	16.70
16-24-apr	18:05:08	585	10.9	10.5	-0.4	31	16.70
16-24-apr	19:05:08	585	9.9	9.4	-0.6	31	16.72
16-24-apr	20:05:08	585	8.4	8.2	-0.2	31	16.70
16-24-apr	21:05:08	585	7.0	6.5	-0.5	31	16.71
16-24-apr	22:05:08	584	6.8	6.0	-0.8	31	16.73
16-24-apr	23:05:08	583	5.7	5.1	-0.6	30	16.71
16-25-apr	0:05:08	583	5.1	4.1	-1.0	30	16.72
16-25-apr	1:05:08	583	5.5	4.5	-1.0	30	16.71
16-25-apr	2:05:08	582	3.6	3.3	-0.3	30	16.70
16-25-apr	3:05:08	581	2.6	1.8	-0.9	30	16.72
16-25-apr	4:05:08	581	1.0	0.4	-0.6	30	16.71
16-25-apr	5:05:08	581	1.1	-0.2	-1.2	30	16.71
16-25-apr	6:05:08	581	3.6	1.9	-1.7	30	16.71
16-25-apr	7:05:08	581	4.2	3.4	-0.8	30	16.70
16-25-apr	8:05:08	580	5.8	5.5	-0.4	31	16.71
16-25-apr	9:05:08	580	4.1	4.8	0.7	31	16.70
16-25-apr	10:05:08	580	5.9	5.2	-0.7	31	16.71

BGI PQ200 Air Sampling System Downloaded 2016 02 may 10:07:24

Job Details:

Job Name: 16May02B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3240:35
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ++++++++++++++++++++++++++++++
User2:

	Max	Min	Avg	Units
BP	587	583	585	mmHg
TA	8.7	0.3	3.1	°C
Q	---	---	16.7	Lpm

QCV 0.57 %

Max overheat 2.3 °C
occured 30-apr 16:02:13

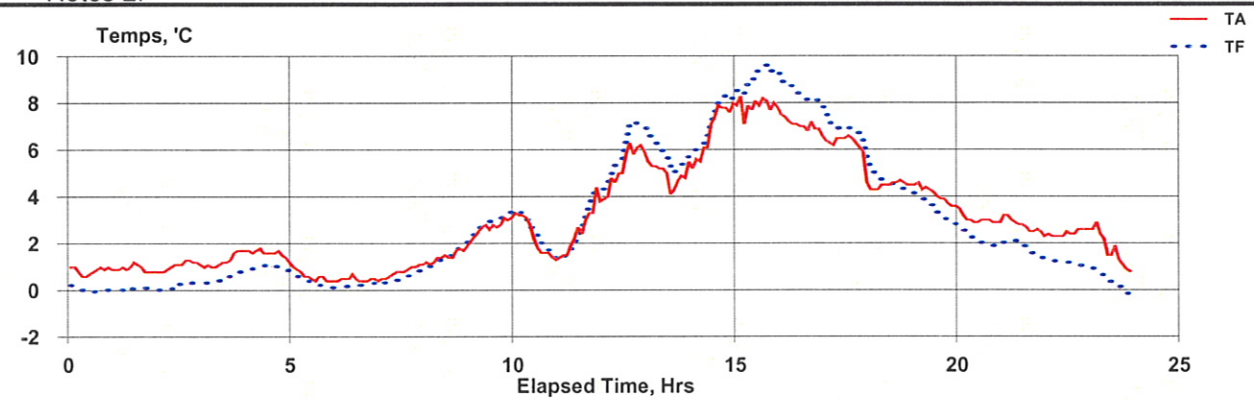
Timer Information:

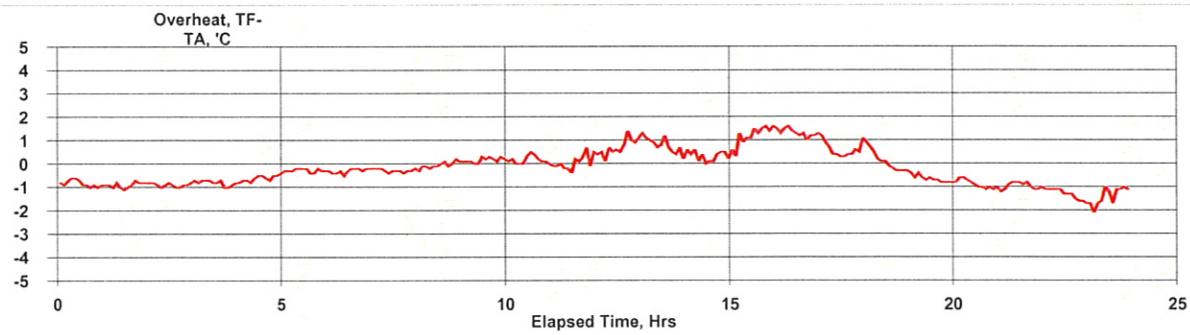
	Date dd-mmm	Time hh:mm:ss
Start:	16-30-apr	0:00:08
Stop:	16-01-may	0:00:05
ET:	23:59	

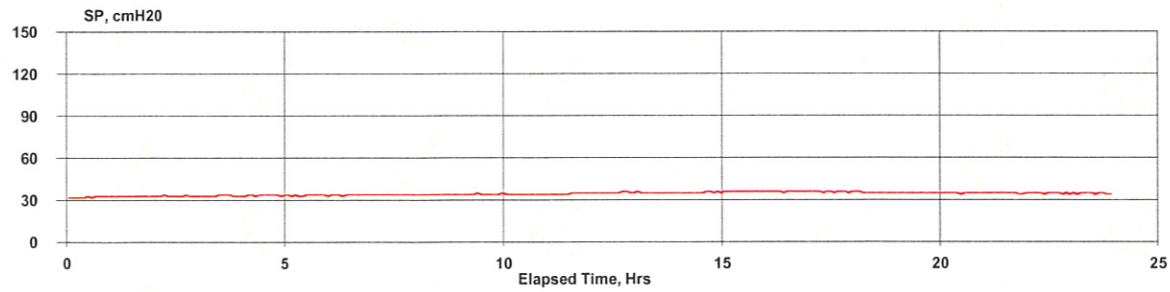
Mass Concentration Data:

Filter ID:	22	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.043	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-30-apr	0:05:08	585	0.9	0.0	-0.8	33	16.71
16-30-apr	1:05:08	585	0.9	0.0	-0.9	33	16.71
16-30-apr	2:05:08	584	1.1	0.2	-0.9	33	16.71
16-30-apr	3:05:08	584	1.3	0.5	-0.8	33	16.71
16-30-apr	4:05:08	584	1.6	1.0	-0.6	34	16.71
16-30-apr	5:05:08	584	0.6	0.3	-0.3	34	16.71
16-30-apr	6:05:08	585	0.5	0.2	-0.3	34	16.71
16-30-apr	7:05:08	585	0.8	0.5	-0.3	34	16.71
16-30-apr	8:05:08	585	1.5	1.4	-0.1	34	16.72
16-30-apr	9:05:08	585	2.7	2.9	0.2	34	16.71
16-30-apr	10:05:08	586	2.3	2.4	0.2	34	16.70
16-30-apr	11:05:08	585	2.6	2.7	0.1	35	16.71
16-30-apr	12:05:08	585	5.3	6.0	0.7	35	16.70
16-30-apr	13:05:08	585	5.0	5.8	0.8	35	16.71
16-30-apr	14:05:08	585	6.8	7.2	0.3	35	16.71
16-30-apr	15:05:08	585	7.9	9.1	1.2	36	16.70
16-30-apr	16:05:08	585	7.1	8.4	1.3	36	16.71
16-30-apr	17:05:08	585	6.2	6.8	0.6	36	16.71
16-30-apr	18:05:08	586	4.5	4.6	0.1	35	16.72
16-30-apr	19:05:08	586	4.1	3.4	-0.7	35	16.71
16-30-apr	20:05:08	586	3.0	2.1	-0.9	35	16.70
16-30-apr	21:05:08	586	2.8	1.8	-1.0	35	16.73
16-30-apr	22:05:08	586	2.4	1.1	-1.3	35	16.71
16-30-apr	23:05:08	586	1.7	0.3	-1.4	35	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 09 may 15:37:52

Job Details:

Job Name: 16May09B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3264:34
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ++++++++++++++++++++++++++++++++
User2:

	Max	Min	Avg	Units
BP	587	584	585	mmHg
TA	16.1	-0.8	7.8	°C
Q	---	---	16.7	Lpm

QCV	0.58 %
Max overheat	3.4 °C
occured	07-may 12:50:50

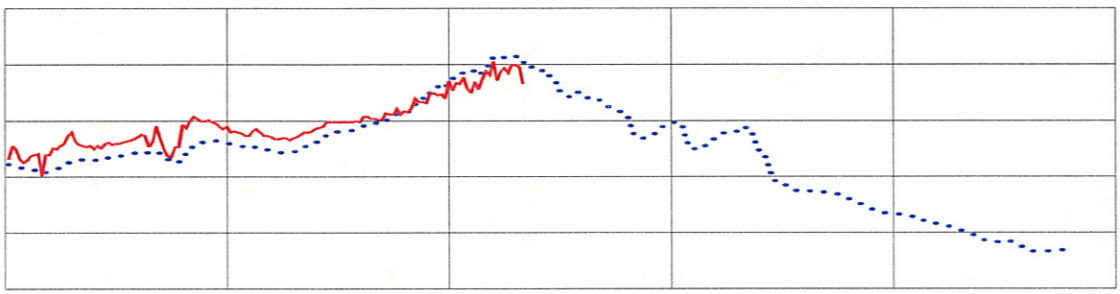
Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	16-06-may	0:00:08
Stop:	16-07-may	0:00:05
ET:	23:59	

Mass Concentration Data:

Filter ID:	27	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:



Overheat, TF-

16-06-may	0:05:08	586	6.8	5.7	-1.1	34	16.70
16-06-may	1:05:08	586	8.0	6.2	-1.8	34	16.71
16-06-may	2:05:08	586	8.1	6.8	-1.3	35	16.71
16-06-may	3:05:08	586	8.1	6.8	-1.3	35	16.71
16-06-may	4:05:08	586	9.8	7.9	-1.9	35	16.70
16-06-may	5:05:08	586	8.9	7.6	-1.3	35	16.72
16-06-may	6:05:08	586	8.7	7.4	-1.3	35	16.71
16-06-may	7:05:08	586	9.8	8.9	-0.9	36	16.71
16-06-may	8:05:08	586	10.5	10.0	-0.5	36	16.71
16-06-may	9:05:08	586	12.0	12.2	0.2	37	16.71
16-06-may	10:05:08	586	13.5	14.4	0.8	37	16.71
16-06-may	11:05:08	585	14.2	15.3	1.1	38	16.70
16-06-may	12:05:08	585	12.1	13.0	0.9	37	16.71
16-06-may	13:05:08	585	11.0	11.4	0.4	37	16.71
16-06-may	14:05:08	585	9.9	9.0	-0.9	36	16.71
16-06-may	15:05:08	585	9.5	8.3	-1.2	36	16.70
16-06-may	16:05:08	584	9.5	8.7	-0.8	36	16.71
16-06-may	17:05:08	586	4.8	4.6	-0.2	36	16.71
16-06-may	18:05:08	586	4.2	3.4	-0.7	36	16.71
16-06-may	19:05:08	586	3.1	2.1	-1.0	36	16.71
16-06-may	20:05:08	586	2.6	1.2	-1.4	36	16.71
16-06-may	21:05:08	586	1.1	0.1	-1.0	35	16.70
16-06-may	22:05:08	586	0.2	-1.0	-1.2	35	16.71
16-06-may	23:05:08	586	-0.2	-1.7	-1.4	36	16.72

BGI PQ200 Air Sampling System Downloaded 2016 13 may 07:42:42

Job Details:

Job Name:	16May13B.JOB
Version:	5.62
Serial No:	963
Pump Time:	3288:33
Flags:	

Job Code:	
Site Name:	963B
Station Code:	
Operators:	KN
User1:	++++++++++++++++++++++++++++++
User2:	

	Max	Min	Avg	Units
BP	596	592	594	mmHg
TA	22.5	0.3	11.8	°C
Q	---	---	16.7	Lpm

QCV	0.57 %
Max overheat	2.6 °C
occured	12-may 15:35:19

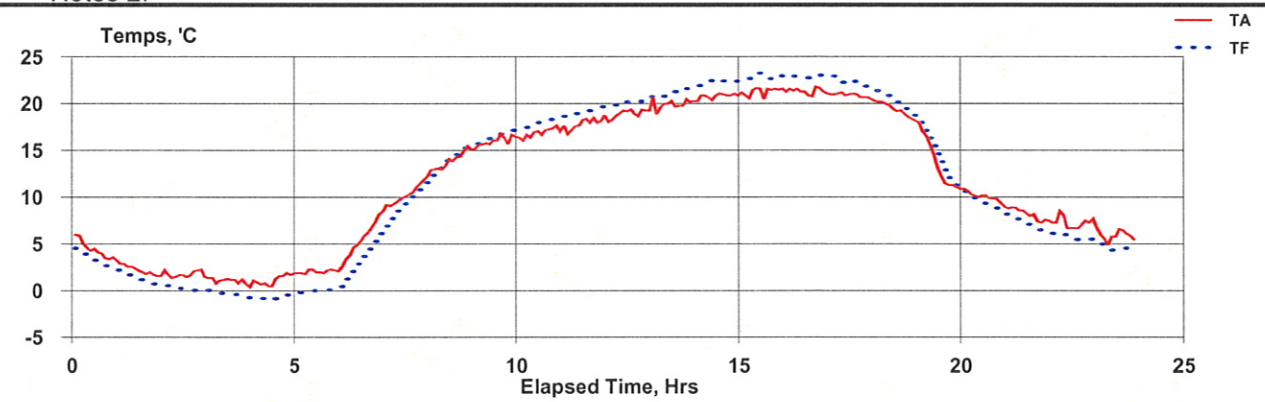
Timer Information:

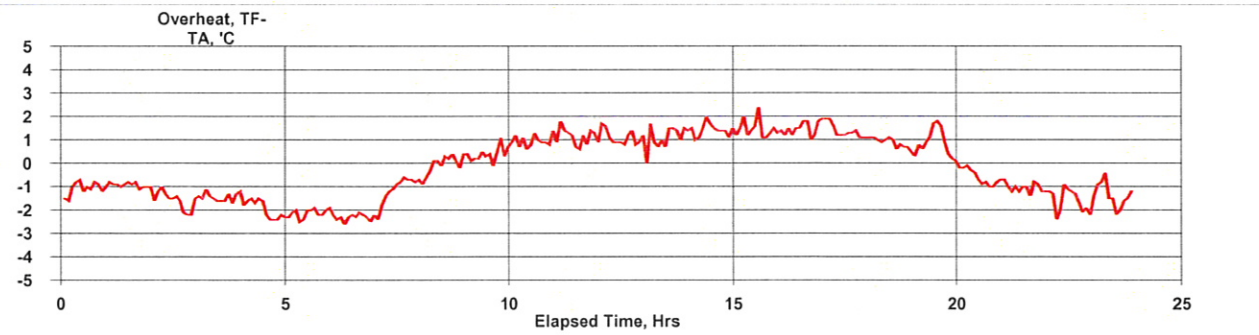
	Date dd-mmm	Time hh:mm:ss
Start:	16-12-may	0:00:08
Stop:	16-13-may	0:00:04
ET:	23:59	

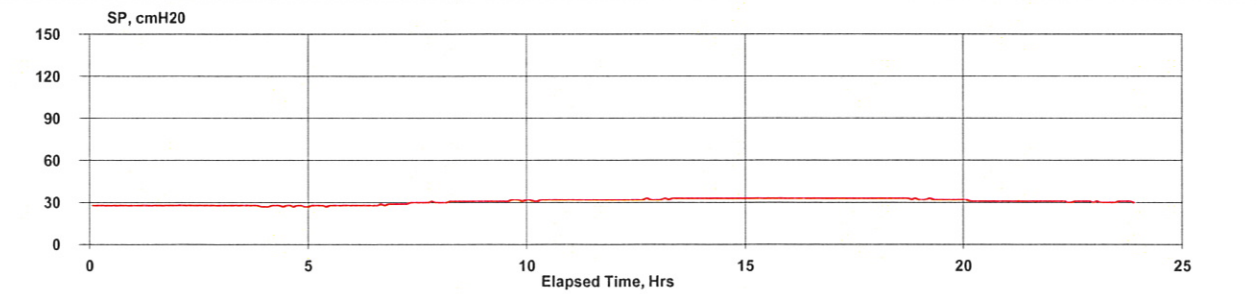
Mass Concentration Data:

Filter ID:	32	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.039	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-12-may	0:05:08	594	4.4	3.3	-1.1	28	16.71
16-12-may	1:05:08	594	2.2	1.3	-0.9	28	16.70
16-12-may	2:05:08	594	1.8	0.2	-1.6	28	16.73
16-12-may	3:05:08	594	1.1	-0.4	-1.4	28	16.71
16-12-may	4:05:08	594	1.2	-0.8	-2.0	28	16.71
16-12-may	5:05:08	595	2.1	-0.1	-2.1	28	16.71
16-12-may	6:05:08	595	5.6	3.3	-2.3	28	16.71
16-12-may	7:05:08	595	10.4	9.3	-1.1	30	16.71
16-12-may	8:05:08	596	14.0	13.9	0.0	31	16.73
16-12-may	9:05:08	596	16.0	16.4	0.4	31	16.71
16-12-may	10:05:08	596	16.9	17.9	1.0	32	16.70
16-12-may	11:05:08	596	17.9	19.1	1.1	32	16.69
16-12-may	12:05:08	595	19.0	20.1	1.1	32	16.70
16-12-may	13:05:08	595	20.0	21.1	1.1	33	16.71
16-12-may	14:05:08	595	20.8	22.3	1.4	33	16.71
16-12-may	15:05:08	594	21.3	22.8	1.5	33	16.71
16-12-may	16:05:08	594	21.3	22.8	1.5	33	16.71
16-12-may	17:05:08	594	20.9	22.3	1.4	33	16.71
16-12-may	18:05:08	594	19.4	20.3	0.9	33	16.70
16-12-may	19:05:08	594	13.6	14.5	0.9	32	16.70
16-12-may	20:05:08	594	10.0	9.5	-0.6	31	16.72
16-12-may	21:05:08	594	8.2	7.1	-1.1	31	16.71
16-12-may	22:05:08	594	7.3	5.7	-1.6	31	16.71
16-12-may	23:05:08	594	5.9	4.6	-1.4	30	16.72

BGI PQ200 Air Sampling System Downloaded 2016 20 may 04:47:50

Job Details:

Job Name: 16May20B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3312:32
Flags:

Job Code:
Site Name: 963B
Station Code:
Operators: kn
User1: ++++++++++++++++++++++++++++++++
User2:

	Max	Min	Avg	Units
BP	592	588	590	mmHg
TA	14.5	3	8.8	°C
Q	---	---	16.7	Lpm

QCV 0.52 %
Max overheat 2.4 °C
occured 19-may 13:29:58

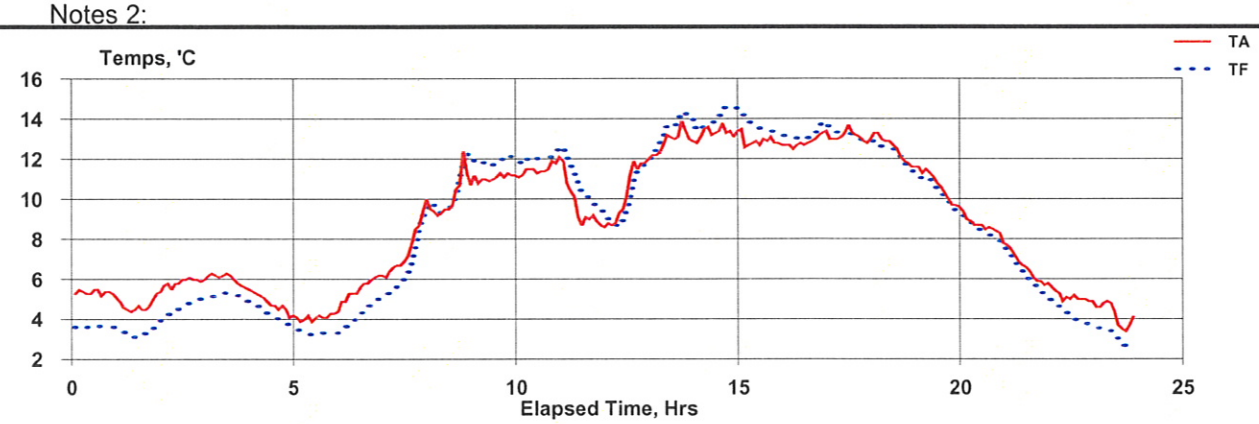
Timer Information:

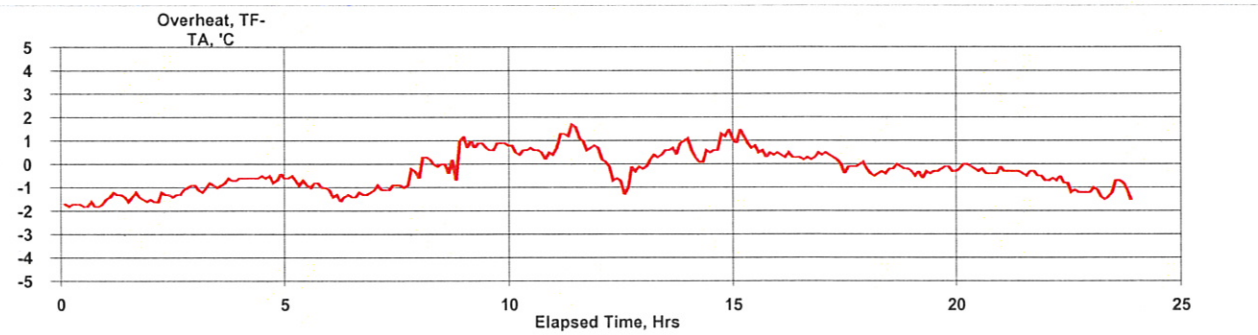
	Date dd-mmm	Time hh:mm:ss
Start:	16-18-may	0:00:08
Stop:	16-19-may	0:00:05
ET:	23:59	

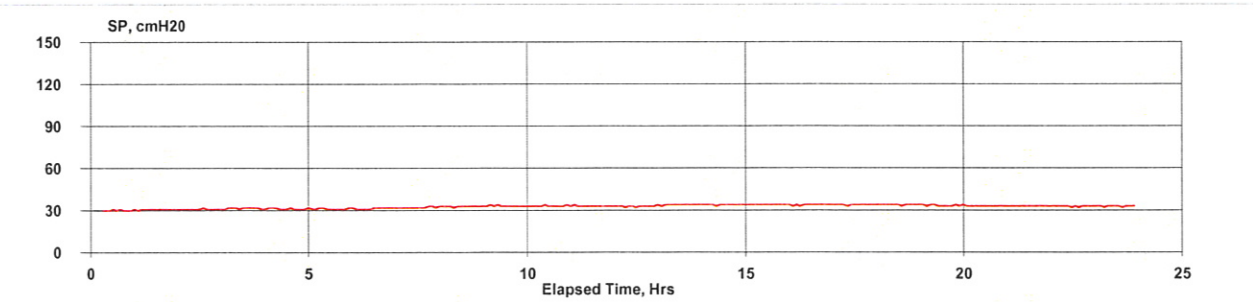
Mass Concentration Data:

Filter ID:		
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-18-may	0:05:08	590	5.4	3.6	-1.7	30	16.71
16-18-may	1:05:08	590	4.8	3.4	-1.4	31	16.72
16-18-may	2:05:08	590	5.9	4.6	-1.2	31	16.71
16-18-may	3:05:08	590	6.0	5.2	-0.9	32	16.71
16-18-may	4:05:08	591	4.8	4.2	-0.6	31	16.72
16-18-may	5:05:08	591	4.1	3.3	-0.8	31	16.71
16-18-may	6:05:08	591	5.6	4.3	-1.3	32	16.71
16-18-may	7:05:08	591	7.6	6.8	-0.8	32	16.71
16-18-may	8:05:08	591	10.1	10.3	0.2	33	16.71
16-18-may	9:05:08	591	11.1	11.9	0.8	33	16.71
16-18-may	10:05:08	591	11.5	12.1	0.5	33	16.71
16-18-may	11:05:08	591	9.5	10.6	1.1	33	16.70
16-18-may	12:05:08	591	10.5	10.1	-0.4	33	16.71
16-18-may	13:05:08	591	12.9	13.5	0.5	34	16.70
16-18-may	14:05:08	591	13.3	14.0	0.7	34	16.71
16-18-may	15:05:08	590	12.9	13.6	0.7	34	16.71
16-18-may	16:05:08	590	12.9	13.2	0.3	34	16.71
16-18-may	17:05:08	590	13.1	13.2	0.0	34	16.71
16-18-may	18:05:08	590	12.5	12.2	-0.3	34	16.70
16-18-may	19:05:08	590	10.6	10.3	-0.3	33	16.71
16-18-may	20:05:08	591	8.6	8.4	-0.2	33	16.71
16-18-may	21:05:08	591	6.5	6.1	-0.4	33	16.71
16-18-may	22:05:08	591	5.1	4.2	-0.9	33	16.70
16-18-may	23:05:08	591	4.2	3.1	-1.1	33	16.70

BGI PQ200 Air Sampling System Downloaded 2016 25 may 10:19:36

Job Details:

Job Name: 16May25B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3336:31
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ++++++++++++++++++++++++++++++++
User2:

	Max	Min	Avg	Units
BP	589	584	586	mmHg
TA	17.1	-1.7	8.2	°C
Q	---	---	16.7	Lpm

QCV 0.51 %
Max overheat 2.4 °C
occured 24-may 14:55:26

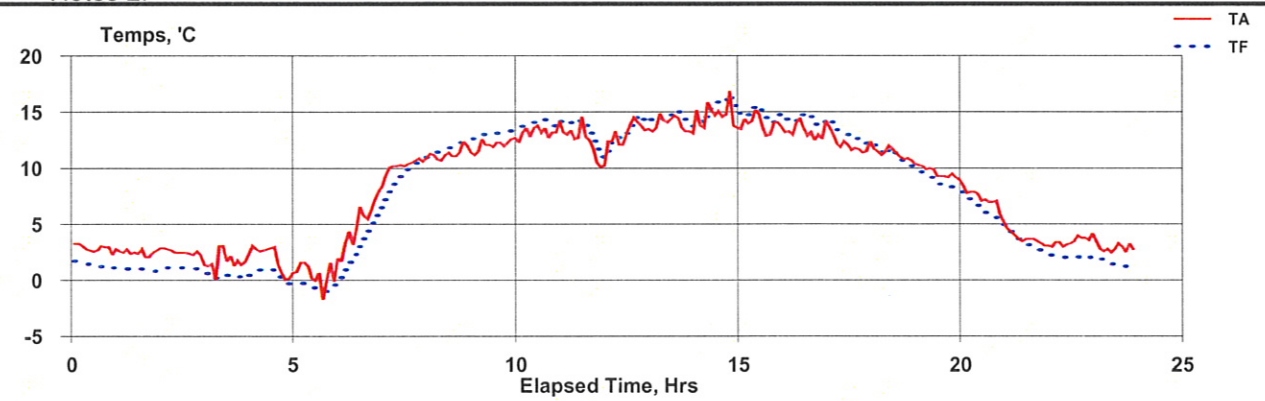
Timer Information:

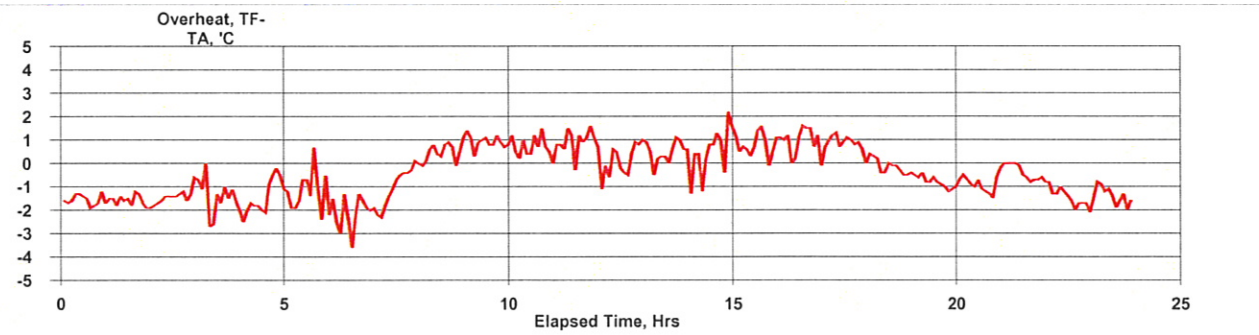
	Date dd-mmm	Time hh:mm:ss
Start:	16-24-may	0:00:08
Stop:	16-25-may	0:00:05
ET:	23:59	

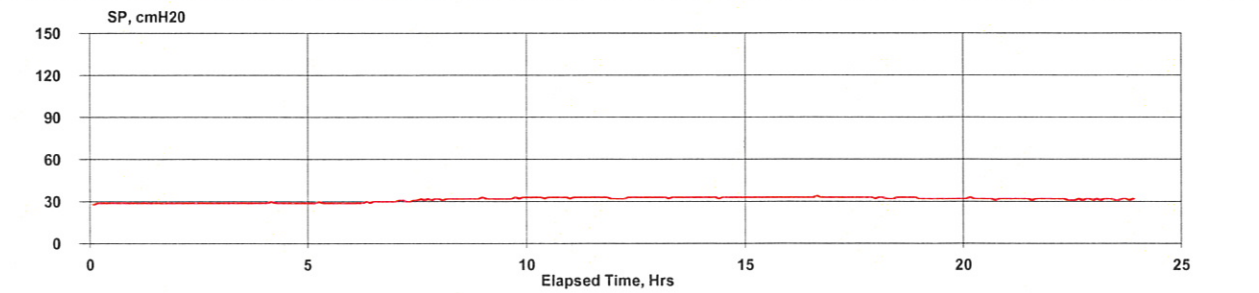
Mass Concentration Data:

Filter ID:	10	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.039	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-24-may	0:05:08	586	2.9	1.3	-1.6	29	16.71
16-24-may	1:05:08	586	2.5	0.9	-1.6	29	16.71
16-24-may	2:05:08	586	2.5	1.1	-1.4	29	16.71
16-24-may	3:05:08	586	1.8	0.4	-1.4	29	16.71
16-24-may	4:05:08	586	1.9	0.5	-1.4	29	16.72
16-24-may	5:05:08	586	0.7	-0.6	-1.2	29	16.70
16-24-may	6:05:08	586	5.4	3.3	-2.1	30	16.72
16-24-may	7:05:08	586	10.4	9.5	-0.9	31	16.71
16-24-may	8:05:08	587	11.3	11.8	0.5	32	16.70
16-24-may	9:05:08	587	12.1	13.1	0.9	32	16.71
16-24-may	10:05:08	587	13.3	14.0	0.7	33	16.70
16-24-may	11:05:08	587	12.3	13.2	0.9	33	16.70
16-24-may	12:05:08	587	13.2	13.3	0.1	33	16.71
16-24-may	13:05:08	587	13.9	14.4	0.5	33	16.71
16-24-may	14:05:08	587	14.8	15.3	0.5	33	16.71
16-24-may	15:05:08	587	14.0	14.8	0.8	33	16.71
16-24-may	16:05:08	587	13.3	14.3	0.9	33	16.71
16-24-may	17:05:08	587	12.1	13.0	0.9	33	16.70
16-24-may	18:05:08	587	11.2	11.1	-0.1	33	16.71
16-24-may	19:05:08	588	9.6	8.8	-0.8	32	16.71
16-24-may	20:05:08	588	7.2	6.3	-0.9	32	16.71
16-24-may	21:05:08	589	3.7	3.3	-0.4	32	16.70
16-24-may	22:05:08	589	3.5	2.0	-1.5	32	16.71
16-24-may	23:05:08	589	2.9	1.5	-1.4	32	16.70

BGI PQ200 Air Sampling System Downloaded 2016 06 jun 13:56:36

Job Details:

Job Name:	16Jun06B.JOB
Version:	5.62
Serial No:	963
Pump Time:	3384:29
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	++++++++++++++++++++++++++++++
User2:	

	Max	Min	Avg	Units
BP	593	589	591	mmHg
TA	32.7	9.4	21.9	°C
Q	---	---	16.7	Lpm

QCV	0.47	%
Max overheat	2.2	°C
occured	05-jun 14:22:22	

Timer Information:

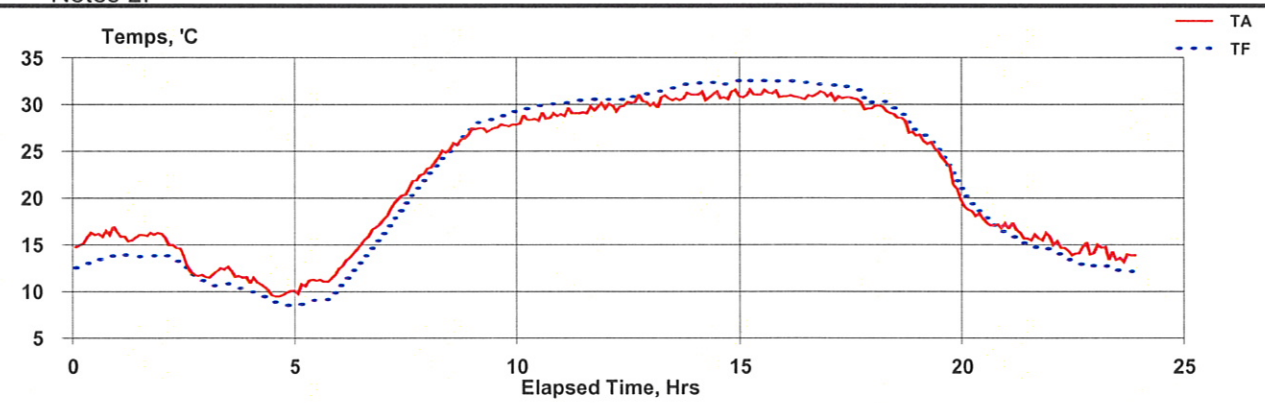
	Date dd-mmm	Time hh:mm:ss
Start:	16-05-jun	0:00:08
Stop:	16-06-jun	0:00:05
ET:	23:59	

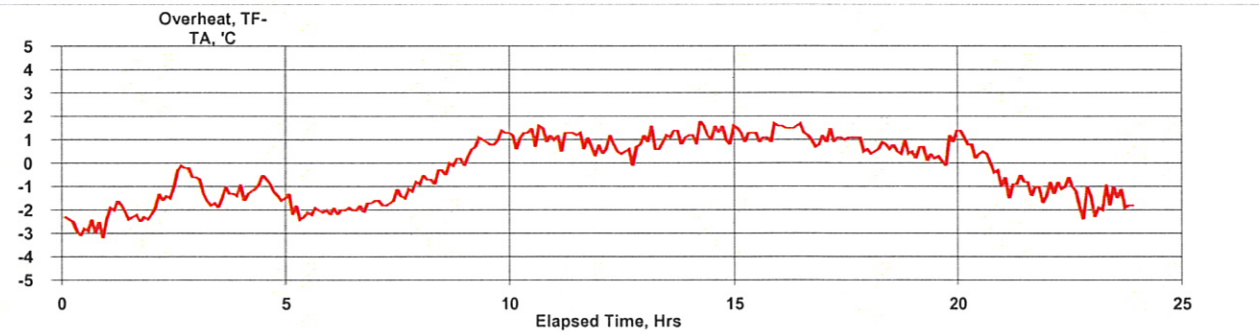
Mass Concentration Data:

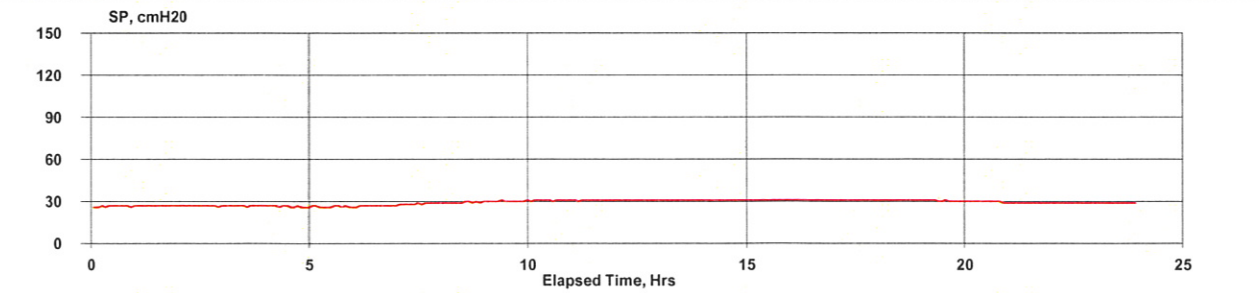
Filter ID:	38	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.032	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-05-jun	0:05:08	593	15.9	13.2	-2.7	27	16.71
16-05-jun	1:05:08	593	16.0	13.8	-2.1	27	16.70
16-05-jun	2:05:08	593	13.4	12.5	-0.9	27	16.71
16-05-jun	3:05:08	593	11.9	10.5	-1.4	27	16.70
16-05-jun	4:05:08	593	10.2	9.0	-1.2	27	16.71
16-05-jun	5:05:08	593	11.2	9.1	-2.0	26	16.71
16-05-jun	6:05:08	593	15.3	13.4	-1.9	27	16.71
16-05-jun	7:05:08	593	20.9	19.5	-1.4	29	16.72
16-05-jun	8:05:08	593	25.5	25.1	-0.3	29	16.70
16-05-jun	9:05:08	593	27.6	28.5	0.9	30	16.70
16-05-jun	10:05:08	593	28.6	29.8	1.2	31	16.72
16-05-jun	11:05:08	593	29.4	30.4	1.0	31	16.72
16-05-jun	12:05:08	592	30.1	30.8	0.6	31	16.71
16-05-jun	13:05:08	592	30.7	31.8	1.1	31	16.70
16-05-jun	14:05:08	591	31.0	32.3	1.3	31	16.69
16-05-jun	15:05:08	591	31.2	32.4	1.2	31	16.71
16-05-jun	16:05:08	590	31.0	32.3	1.3	31	16.70
16-05-jun	17:05:08	590	30.4	31.4	1.0	31	16.70
16-05-jun	18:05:08	589	28.6	29.2	0.6	31	16.71
16-05-jun	19:05:08	590	24.1	24.6	0.5	30	16.71
16-05-jun	20:05:08	590	17.8	18.1	0.3	30	16.70
16-05-jun	21:05:08	590	16.1	15.1	-1.0	29	16.70
16-05-jun	22:05:08	590	14.5	13.3	-1.2	29	16.72
16-05-jun	23:05:08	590	14.0	12.4	-1.6	29	16.72

BGI PQ200 Air Sampling System Downloaded 2016 14 jun 14:18:19

Job Details:

Job Name: 16Jun14B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3408:28
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ++++++++++++++++++++++++++++++
User2:

	Max	Min	Avg	Units
BP	593	589	592	mmHg
TA	24	8.7	16.4	°C
Q	---	---	16.7	Lpm

QCV 0.5 %
Max overheat 3.6 °C
occured 11-jun 15:50:48

Timer Information:

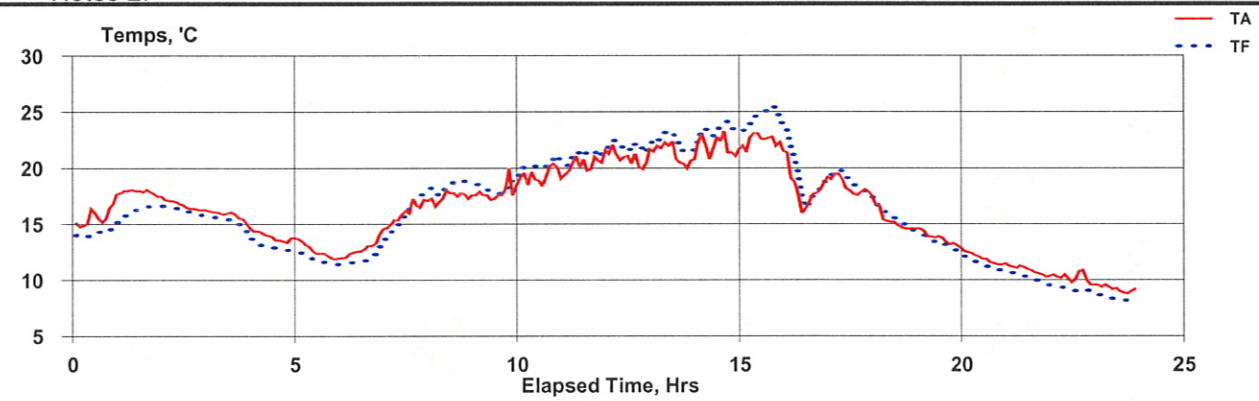
	Date dd-mmm	Time hh:mm:ss
Start:	16-11-jun	0:00:08
Stop:	16-12-jun	0:00:04

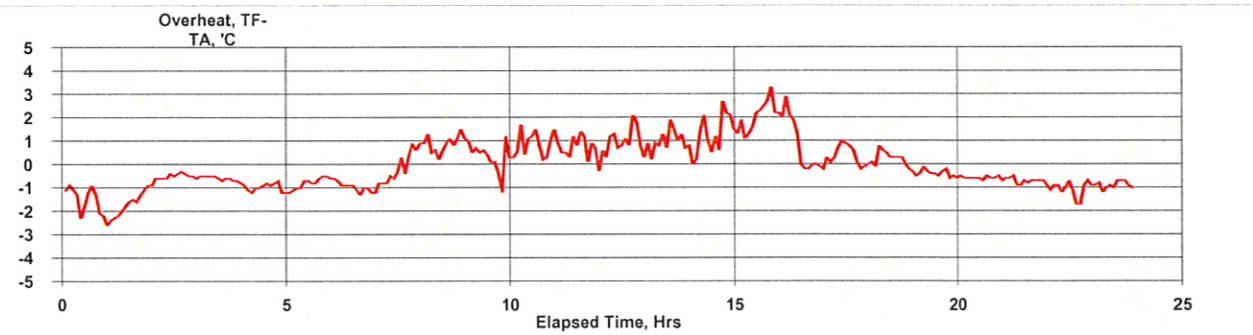
ET: 23:59

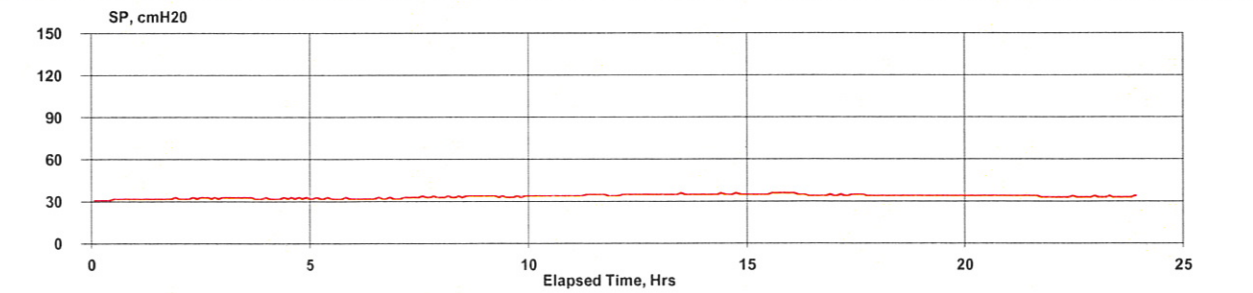
Mass Concentration Data:

Filter ID:	22	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.038	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-11-jun	0:05:08	592	15.8	14.2	-1.6	32	16.71
16-11-jun	1:05:08	592	17.9	16.2	-1.6	32	16.70
16-11-jun	2:05:08	592	16.7	16.2	-0.5	33	16.71
16-11-jun	3:05:08	592	15.8	15.2	-0.6	33	16.71
16-11-jun	4:05:08	592	13.9	12.9	-1.0	32	16.70
16-11-jun	5:05:08	592	12.6	11.8	-0.8	32	16.71
16-11-jun	6:05:08	592	12.9	12.0	-1.0	32	16.71
16-11-jun	7:05:08	592	16.1	16.0	-0.1	33	16.71
16-11-jun	8:05:08	592	17.5	18.4	0.9	34	16.71
16-11-jun	9:05:08	592	17.9	18.2	0.3	34	16.71
16-11-jun	10:05:08	593	19.4	20.2	0.9	34	16.71
16-11-jun	11:05:08	593	20.4	21.1	0.7	35	16.71
16-11-jun	12:05:08	593	20.9	21.9	1.0	35	16.70
16-11-jun	13:05:08	592	21.3	22.3	1.0	35	16.71
16-11-jun	14:05:08	593	22.0	23.3	1.3	35	16.71
16-11-jun	15:05:08	592	22.4	24.5	2.1	36	16.71
16-11-jun	16:05:08	592	18.2	19.0	0.8	35	16.72
16-11-jun	17:05:08	592	18.3	18.7	0.4	34	16.71
16-11-jun	18:05:08	592	15.2	15.4	0.2	34	16.70
16-11-jun	19:05:08	592	13.7	13.3	-0.4	34	16.70
16-11-jun	20:05:08	592	11.9	11.3	-0.6	34	16.71
16-11-jun	21:05:08	592	10.9	10.2	-0.7	34	16.71
16-11-jun	22:05:08	592	10.2	9.1	-1.1	33	16.70
16-11-jun	23:05:08	592	9.2	8.3	-0.9	33	16.71

BGI PQ200 Air Sampling System Downloaded 2016 20 jun 09:55:37

Job Details:

Job Name: 16Jun20B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3432:27
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ++++++++++++++++++++++++++++++
User2:

	Max	Min	Avg	Units
BP	595	590	593	mmHg
TA	27.5	5.6	17.1	°C
Q	---	---	16.7	Lpm

QCV	0.5	%
Max overheat	3.3	°C
occured	19-jun 14:09:15	

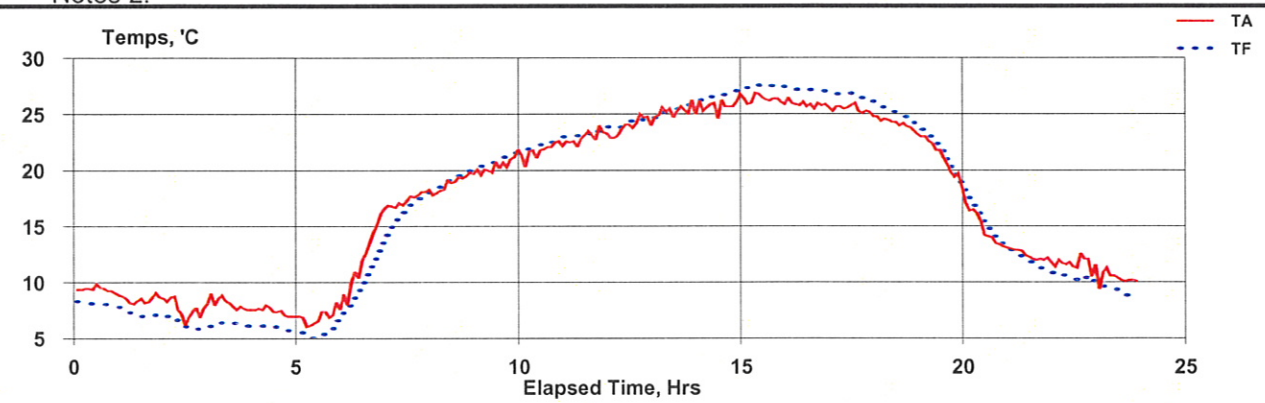
Timer Information:

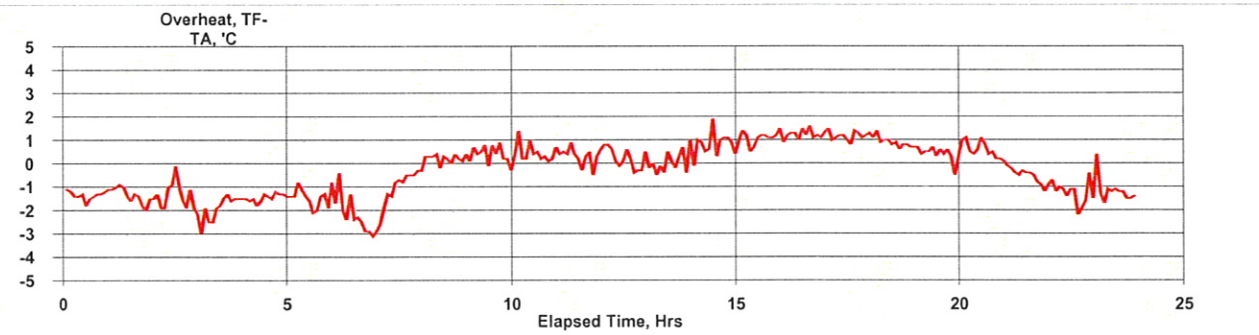
	Date dd-mmm	Time hh:mm:ss
Start:	16-17-jun	0:00:08
Stop:	16-18-jun	0:00:04
ET:	23:59	

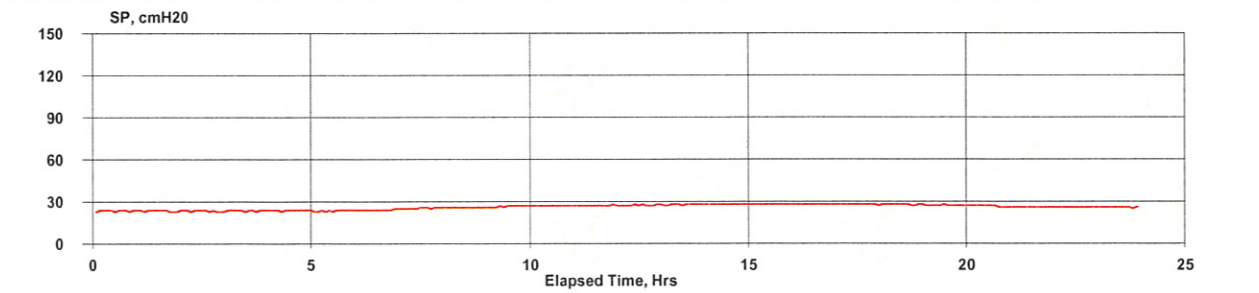
Mass Concentration Data:

Filter ID:	28	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.033	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-17-jun	0:05:08	593	9.4	8.1	-1.3	24	16.70
16-17-jun	1:05:08	593	8.5	7.2	-1.4	24	16.70
16-17-jun	2:05:08	593	7.6	6.2	-1.4	24	16.71
16-17-jun	3:05:08	593	8.1	6.3	-1.9	24	16.70
16-17-jun	4:05:08	593	7.4	6.0	-1.5	24	16.71
16-17-jun	5:05:08	593	7.0	5.6	-1.4	24	16.71
16-17-jun	6:05:08	594	12.4	10.2	-2.2	24	16.70
16-17-jun	7:05:08	594	17.4	16.5	-1.0	26	16.70
16-17-jun	8:05:08	594	18.9	19.1	0.2	26	16.70
16-17-jun	9:05:08	595	20.5	20.9	0.4	27	16.73
16-17-jun	10:05:08	595	21.8	22.3	0.5	27	16.70
16-17-jun	11:05:08	595	23.0	23.3	0.3	27	16.70
16-17-jun	12:05:08	595	23.9	24.2	0.2	27	16.72
16-17-jun	13:05:08	594	25.3	25.4	0.1	28	16.71
16-17-jun	14:05:08	594	25.8	26.6	0.8	28	16.72
16-17-jun	15:05:08	594	26.3	27.4	1.1	28	16.70
16-17-jun	16:05:08	594	25.9	27.1	1.2	28	16.70
16-17-jun	17:05:08	594	25.4	26.6	1.2	28	16.71
16-17-jun	18:05:08	594	24.1	25.0	0.9	28	16.71
16-17-jun	19:05:08	594	21.1	21.5	0.4	27	16.71
16-17-jun	20:05:08	594	14.8	15.3	0.6	27	16.71
16-17-jun	21:05:08	594	12.4	11.8	-0.6	26	16.71
16-17-jun	22:05:08	595	11.7	10.4	-1.3	26	16.71
16-17-jun	23:05:08	595	10.4	9.2	-1.2	26	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 24 jun 11:25:40

Job Details:

Job Name: 16Jun24B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3456:26
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ++++++++++++++++++++++++++++++
User2:

	Max	Min	Avg	Units
BP	594	590	593	mmHg
TA	32.5	11.1	22.5	°C
Q	---	---	16.7	Lpm

QCV 0.41 %

Max overheat 2.8 °C
occured 23-jun 14:34:40

Timer Information:

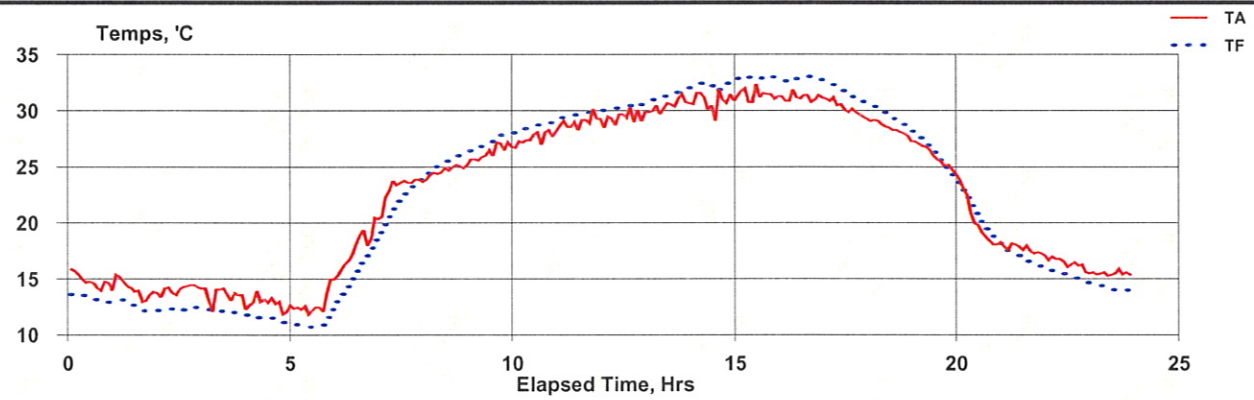
	Date dd-mmm	Time hh:mm:ss
Start:	16-23-jun	0:00:08
Stop:	16-24-jun	0:00:05

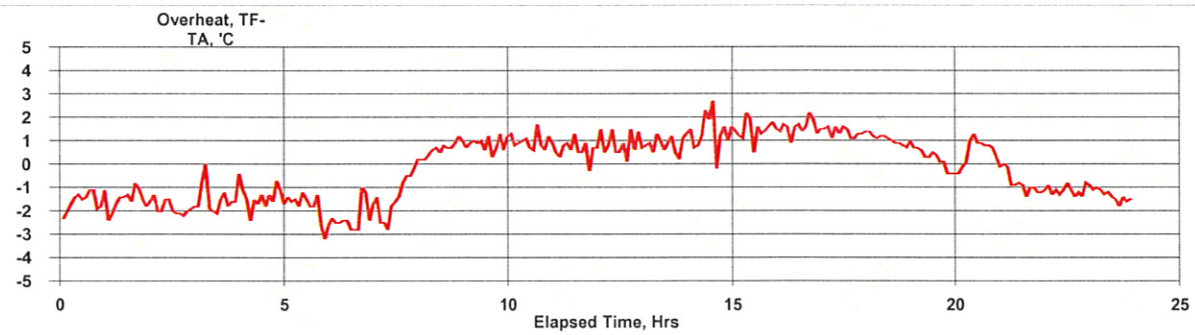
ET: 23:59

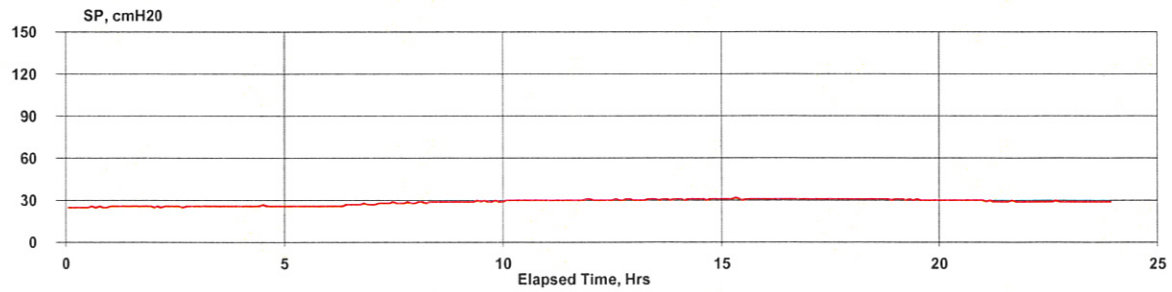
Mass Concentration Data:

Filter ID:	5	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.016	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-23-jun	0:05:08	593	14.8	13.3	-1.6	25	16.72
16-23-jun	1:05:08	593	14.1	12.6	-1.6	26	16.71
16-23-jun	2:05:08	593	14.1	12.3	-1.9	26	16.71
16-23-jun	3:05:08	593	13.5	12.1	-1.4	26	16.69
16-23-jun	4:05:08	593	12.9	11.4	-1.5	26	16.72
16-23-jun	5:05:08	593	12.9	11.0	-1.9	26	16.72
16-23-jun	6:05:08	594	18.0	15.7	-2.2	27	16.73
16-23-jun	7:05:08	594	23.3	21.9	-1.3	28	16.74
16-23-jun	8:05:08	594	24.7	25.4	0.7	29	16.65
16-23-jun	9:05:08	594	26.4	27.2	0.9	29	16.68
16-23-jun	10:05:08	594	27.6	28.6	1.0	30	16.69
16-23-jun	11:05:08	594	29.0	29.7	0.6	30	16.72
16-23-jun	12:05:08	594	29.4	30.3	0.9	30	16.71
16-23-jun	13:05:08	593	30.5	31.4	0.9	31	16.72
16-23-jun	14:05:08	593	30.9	32.3	1.4	31	16.72
16-23-jun	15:05:08	592	31.5	32.9	1.5	31	16.72
16-23-jun	16:05:08	592	31.2	32.8	1.6	31	16.69
16-23-jun	17:05:08	592	30.2	31.6	1.4	31	16.70
16-23-jun	18:05:08	592	28.4	29.5	1.0	31	16.73
16-23-jun	19:05:08	592	25.9	26.2	0.2	30	16.74
16-23-jun	20:05:08	592	20.1	20.6	0.5	30	16.73
16-23-jun	21:05:08	593	17.7	16.8	-0.9	29	16.71
16-23-jun	22:05:08	593	16.4	15.3	-1.1	29	16.71
16-23-jun	23:05:08	593	15.5	14.2	-1.4	29	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 01 jul 16:13:37

Job Details:

Job Name: 16Jul01B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3480:25
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ++++++++++++++++++++++++++++++
User2:

	Max	Min	Avg	Units
BP	596	592	594	mmHg
TA	31.1	12.8	21.7	°C
Q	---	---	16.7	Lpm

QCV	0.39 %
Max overheat	3.7 °C
occured	30-jun 15:29:48

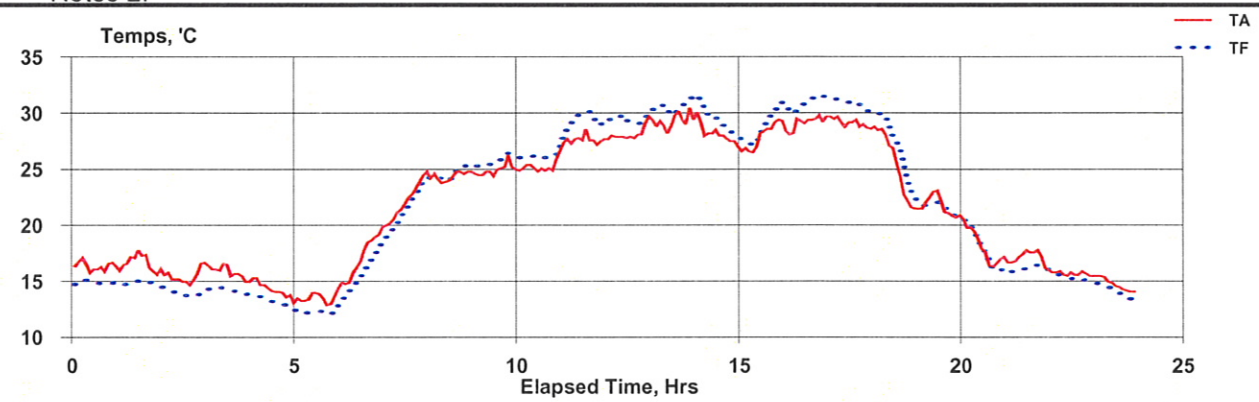
Timer Information:

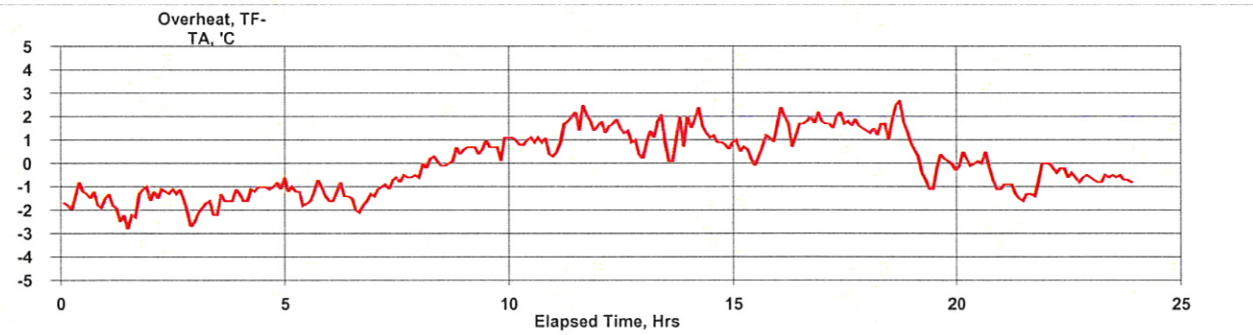
	Date dd-mmm	Time hh:mm:ss
Start:	16-29-jun	0:00:08
Stop:	16-30-jun	0:00:04
ET:	23:59	

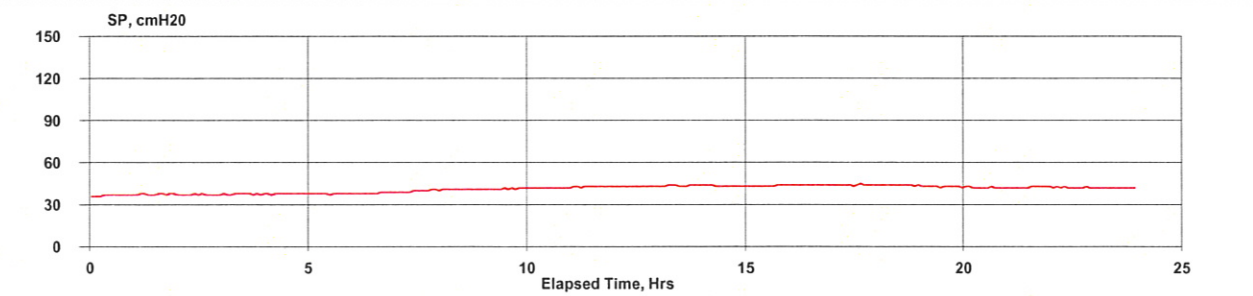
Mass Concentration Data:

Filter ID:	10	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.015	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:







16-29-jun	0:05:08	595	16.4	14.9	-1.5	37	16.70
16-29-jun	1:05:08	595	16.6	14.8	-1.8	38	16.70
16-29-jun	2:05:08	595	15.5	13.9	-1.5	37	16.71
16-29-jun	3:05:08	594	15.8	14.2	-1.7	38	16.71
16-29-jun	4:05:08	595	14.3	13.2	-1.1	38	16.71
16-29-jun	5:05:08	595	13.6	12.3	-1.3	38	16.71
16-29-jun	6:05:08	595	17.2	15.7	-1.5	38	16.71
16-29-jun	7:05:08	595	22.3	21.5	-0.7	40	16.72
16-29-jun	8:05:08	596	24.4	24.6	0.2	41	16.73
16-29-jun	9:05:08	596	25.0	25.7	0.7	41	16.71
16-29-jun	10:05:08	596	25.3	26.1	0.9	42	16.71
16-29-jun	11:05:08	595	27.6	29.3	1.7	43	16.72
16-29-jun	12:05:08	595	28.2	29.4	1.3	43	16.72
16-29-jun	13:05:08	594	29.3	30.5	1.2	44	16.72
16-29-jun	14:05:08	594	28.2	29.4	1.3	43	16.70
16-29-jun	15:05:08	593	27.9	28.7	0.7	43	16.71
16-29-jun	16:05:08	593	29.1	30.9	1.7	44	16.69
16-29-jun	17:05:08	593	29.2	30.9	1.7	44	16.68
16-29-jun	18:05:08	593	25.5	27.1	1.6	44	16.71
16-29-jun	19:05:08	593	21.7	21.5	-0.2	43	16.69
16-29-jun	20:05:08	594	18.1	18.0	-0.2	42	16.70
16-29-jun	21:05:08	594	17.1	16.1	-1.0	43	16.71
16-29-jun	22:05:08	594	15.7	15.3	-0.4	42	16.71
16-29-jun	23:05:08	594	14.7	14.1	-0.7	42	16.70

Collocated Monitor 964C

PM_{10} Sampler Summary

April 1, 2016 - June 30, 2016

Network: **Alton Coal Development**
Site: Coal Hollow
Sampler ID: Coal Hollow-C **AQS ID:**
Sampler Type: BGI FRM Single

Date	Filter ID	Concentration (µg/m3) LTP	Concentration (µg/m3) STP	Sample Period (hr:min)	Sample Volume (m3)	Std Volume (m3)	Mass (mg) Tare	Mass (mg) Gross	Mass (mg) Net	Flag	Comments
04/06/16	P2929004	**5.9**	**7.1**	24:00	24.0	19.9	375.367	375.510	0.143		
04/12/16	P2929225	**6.6**	**8.0**	23:59	24.0	20.0	368.712	368.873	0.161		
04/18/16	P2929230	**16.4**	**19.6**	23:59	24.0	20.1	384.429	384.825	0.396	HT	
04/24/16	P2929389	**3.9**	**4.8**	23:59	24.0	19.7	384.796	384.892	0.096		
04/30/16	P2929394	**1.5**	**1.8**	23:59	24.0	20.0	396.811	396.848	0.037	HT	
05/06/16	P2929399	**13.6**	**16.6**	23:59	24.0	19.7	380.084	380.412	0.328	HT	
05/12/16	P2929632	**50.0**	**61.0**	23:59	24.0	19.7	373.961	375.164	1.203		
05/18/16	P2929817	**13.7**	**16.6**	23:59	24.0	19.8	374.868	375.198	0.330	HT	
05/24/16	P2929628	**27.3**	**33.2**	23:59	24.0	19.7	373.635	374.292	0.657		
05/30/16	P2929825	**7.4**	**9.1**	23:59	24.0	19.5	396.588	396.767	0.179	HT	
06/05/16	P2930154	**8.6**	**10.9**	23:59	24.0	18.9	403.574	403.782	0.208		
06/11/16	P2930161	**9.5**	**11.8**	23:59	24.0	19.3	367.198	367.428	0.230	HT	
06/17/16	P2930167	**35.1**	**43.7**	23:59	24.0	19.3	381.373	382.218	0.845	HT	
06/23/16	P2930504	**34.2**	**43.5**	23:59	24.0	18.9	367.541	368.365	0.824		
06/29/16	P2930509	**26.4**	**33.3**	23:59	24.0	19.1	371.639	372.274	0.635		Filter darker, smudge
06/20/16	P2930513		**Field Blank**				372.662	372.674	0.012		

# Valid	Recovery	Average	St. Dev.	Max	Min
15	**100%**	**21.4**	**17.5**	**61.0**	**1.8**

BGI PQ200 Air Sampling System Downloaded 2016_02 apr_11:25:18

Job Details:

Job Name:	16Apr02C.JOB	Job Code:	
Version:	5.62	Site Name:	964C
Serial No:	964	Station Code:	
Pump Time:	5257:15	Operators:	KN
Flags:		User1:	
		User2:	

	Max	Min	Avg	Units
BP	592	588	589	mmHg
TA	9.8	-4.6	2.1	°C
Q	---	---	16.71	Lpm

QCV	0.57 %
Max overheat	3.3 °C
occured	31-mar 14:52:51

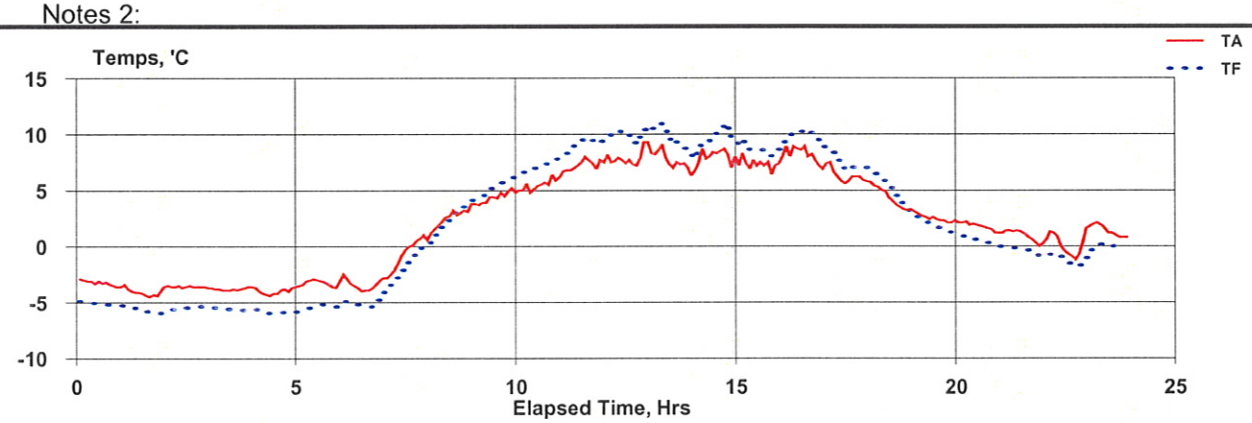
Timer Information:

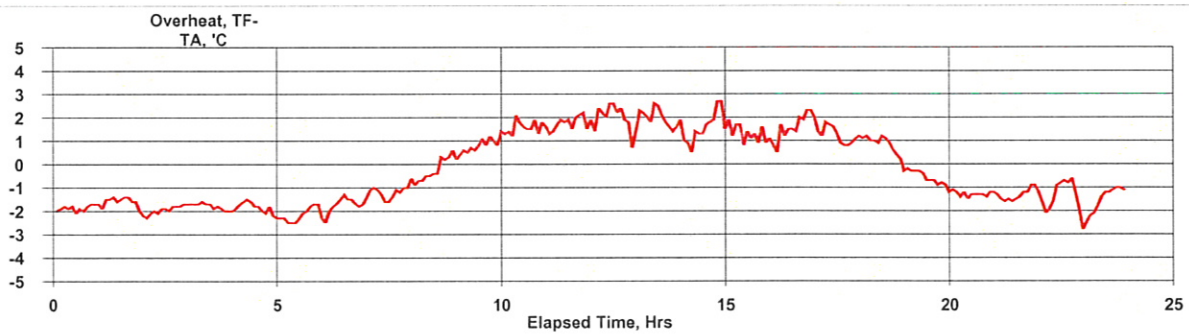
	Date dd-mmm	Time hh:mm:ss
Start:	16-31-mar	0:00:08
Stop:	16-01-apr	0:00:05
ET:	23:59	

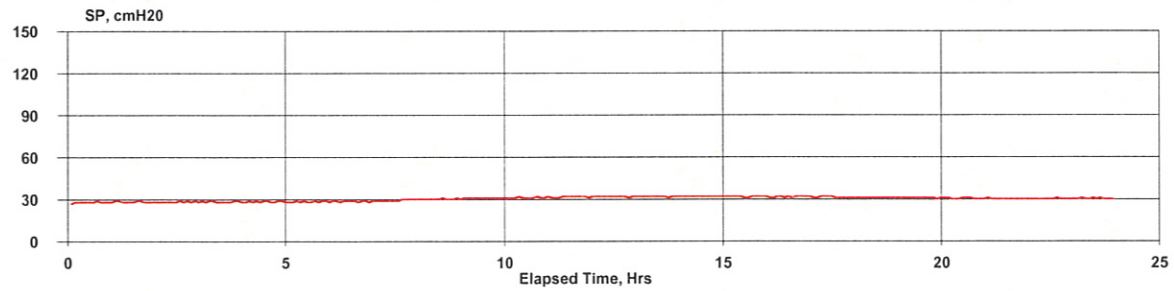
Mass Concentration Data:

Filter ID:	31	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-31-mar	0:05:08	589	-3.3	-5.1	-1.9	28	16.73
16-31-mar	1:05:08	589	-4.1	-5.7	-1.6	28	16.71
16-31-mar	2:05:08	589	-3.6	-5.5	-1.9	28	16.71
16-31-mar	3:05:08	589	-3.8	-5.6	-1.8	28	16.71
16-31-mar	4:05:08	589	-4.0	-5.9	-1.9	29	16.71
16-31-mar	5:05:08	589	-3.3	-5.4	-2.2	28	16.71
16-31-mar	6:05:08	589	-3.4	-5.1	-1.7	29	16.71
16-31-mar	7:05:08	589	-0.6	-1.8	-1.2	29	16.71
16-31-mar	8:05:08	589	2.6	2.4	-0.2	30	16.71
16-31-mar	9:05:08	589	4.4	5.2	0.8	31	16.72
16-31-mar	10:05:08	589	5.5	7.1	1.6	31	16.71
16-31-mar	11:05:08	589	7.3	9.0	1.8	32	16.71
16-31-mar	12:05:08	589	7.9	9.9	2.0	32	16.70
16-31-mar	13:05:08	589	7.7	9.6	2.0	32	16.72
16-31-mar	14:05:08	589	8.0	9.6	1.6	32	16.72
16-31-mar	15:05:08	589	7.3	8.6	1.3	32	16.71
16-31-mar	16:05:08	589	8.2	9.8	1.6	32	16.71
16-31-mar	17:05:08	589	6.3	7.5	1.2	31	16.71
16-31-mar	18:05:08	589	4.3	5.1	0.8	31	16.71
16-31-mar	19:05:08	590	2.5	1.9	-0.6	31	16.71
16-31-mar	20:05:08	590	1.8	0.5	-1.3	30	16.71
16-31-mar	21:05:08	591	0.9	-0.4	-1.3	30	16.71
16-31-mar	22:05:08	591	0.2	-1.2	-1.4	30	16.71
16-31-mar	23:05:08	591	1.4	-0.1	-1.5	30	16.72

BGI PQ200 Air Sampling System Downloaded 2016 07 apr 14:33:33

Job Details:

Job Name: 16Apr07C.JOB
Version: 5.62
Serial No: 964
Pump Time: 5281:15
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	600	596	598	mmHg
TA	21.8	-0.9	10.4	°C
Q	---	---	16.7	Lpm

QCV 0.56 %

Max overheat 2.7 °C
occured 06-apr 14:43:47

Timer Information:

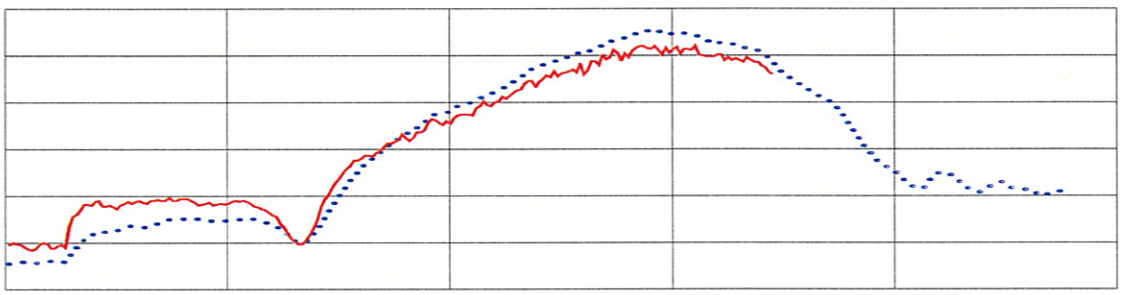
	Date dd-mmm	Time hh:mm:ss
Start:	16-06-apr	0:00:08
Stop:	16-07-apr	0:00:05

ET: 24:00:00

Mass Concentration Data:

Filter ID:	36	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:



Overheat, TF-

16-06-apr	0:05:18	599	-0.3	-2.1	-1.8	29	16.71
16-06-apr	1:05:18	599	2.2	-0.8	-3.0	29	16.71
16-06-apr	2:05:18	599	4.1	1.4	-2.7	30	16.71
16-06-apr	3:05:18	598	4.5	2.1	-2.4	30	16.71
16-06-apr	4:05:18	598	4.2	2.4	-1.8	30	16.71
16-06-apr	5:05:18	599	3.9	2.3	-1.6	30	16.71
16-06-apr	6:05:18	599	1.0	0.7	-0.3	30	16.71
16-06-apr	7:05:18	599	6.9	5.0	-1.9	31	16.72
16-06-apr	8:05:18	599	10.3	10.0	-0.3	32	16.71
16-06-apr	9:05:18	599	12.3	13.0	0.7	32	16.71
16-06-apr	10:05:18	599	14.2	15.1	1.0	33	16.71
16-06-apr	11:05:18	599	16.3	17.5	1.2	33	16.71
16-06-apr	12:05:18	599	18.1	19.6	1.5	34	16.72
16-06-apr	13:05:18	598	19.7	21.2	1.5	34	16.70
16-06-apr	14:05:18	597	20.7	22.4	1.7	35	16.71
16-06-apr	15:05:18	597	20.3	21.9	1.6	34	16.71
16-06-apr	16:05:18	597	19.5	20.9	1.4	34	16.71
16-06-apr	17:05:18	597	17.3	18.1	0.8	34	16.71
16-06-apr	18:05:18	597	14.5	14.7	0.3	33	16.71
16-06-apr	19:05:18	597	8.6	9.3	0.7	33	16.70
16-06-apr	20:05:18	597	8.0	6.5	-1.5	32	16.70
16-06-apr	21:05:18	597	7.4	6.3	-1.1	32	16.71
16-06-apr	22:05:18	597	7.9	5.9	-2.0	32	16.71
16-06-apr	23:05:18	597	6.8	5.2	-1.6	32	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 13 apr 13:44:08

Job Details:

Job Name:	16Apr13C.JOB
Version:	5.62
Serial No:	964
Pump Time:	5305:14
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	595	591	593	mmHg
TA	16.2	-1.1	6.7	°C
Q	---	---	16.71	Lpm

QCV	0.54	%
Max overheat	2.9	°C
occured	12-apr 13:30:57	

Timer Information:

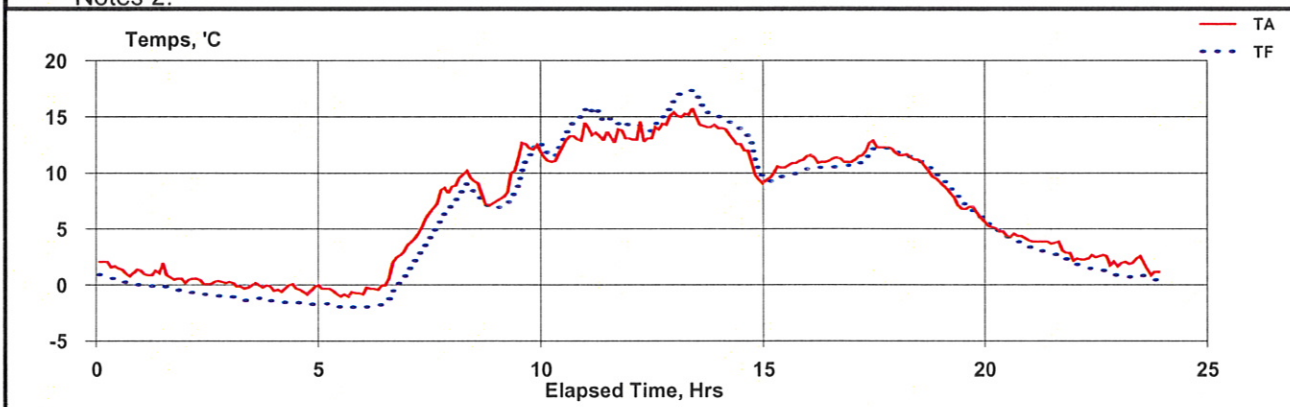
	Date dd-mmm	Time hh:mm:ss
Start:	16-12-apr	0:00:08
Stop:	16-13-apr	0:00:05
ET:	23:59	

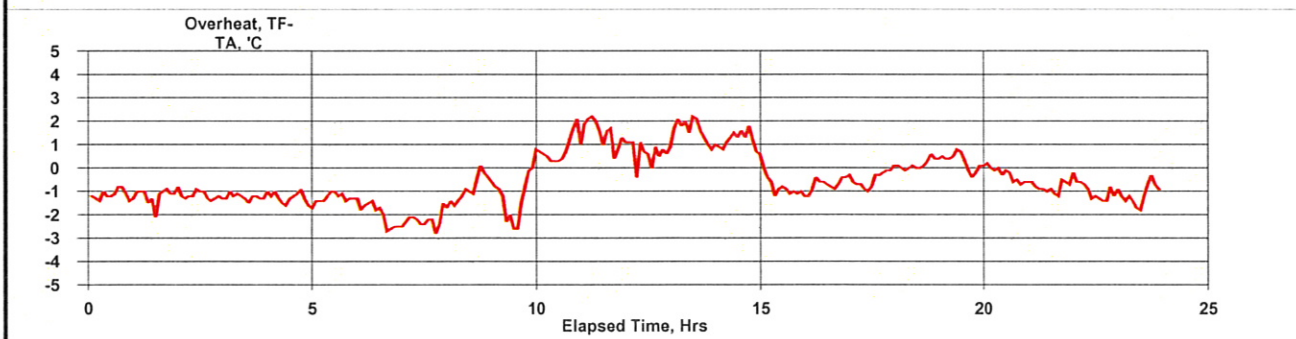
Mass Concentration Data:

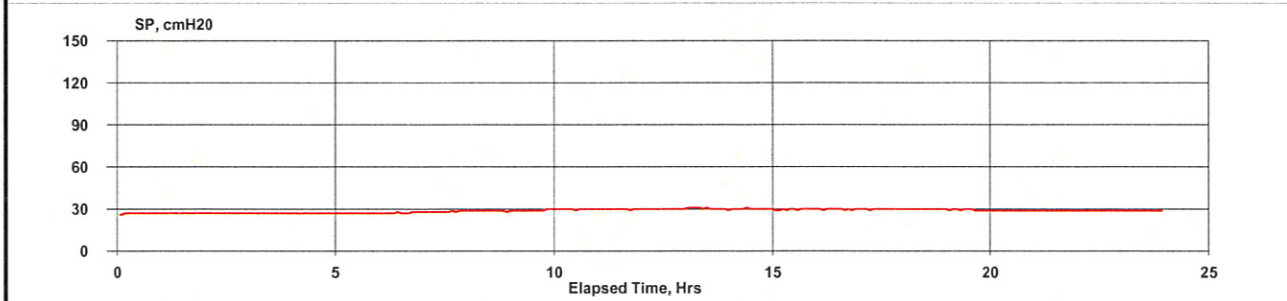
Filter ID:	6	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.043	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-12-apr	0:05:08	594	1.5	0.4	-1.2	27	16.71
16-12-apr	1:05:08	594	0.9	-0.3	-1.2	27	16.71
16-12-apr	2:05:08	593	0.3	-0.9	-1.2	27	16.71
16-12-apr	3:05:08	593	-0.1	-1.3	-1.2	27	16.71
16-12-apr	4:05:08	593	-0.3	-1.6	-1.3	27	16.71
16-12-apr	5:05:08	593	-0.7	-1.9	-1.3	27	16.71
16-12-apr	6:05:08	594	1.1	-1.0	-2.1	27	16.71
16-12-apr	7:05:08	594	6.6	4.4	-2.2	28	16.71
16-12-apr	8:05:08	594	8.7	7.8	-0.9	29	16.71
16-12-apr	9:05:08	594	10.8	9.6	-1.2	29	16.72
16-12-apr	10:05:08	594	12.4	13.2	0.8	30	16.71
16-12-apr	11:05:08	594	13.4	14.9	1.5	30	16.72
16-12-apr	12:05:08	594	13.9	14.6	0.7	30	16.71
16-12-apr	13:05:08	593	14.7	16.3	1.6	30	16.71
16-12-apr	14:05:08	593	11.9	13.1	1.2	30	16.70
16-12-apr	15:05:08	593	10.6	9.7	-0.9	30	16.72
16-12-apr	16:05:08	593	11.2	10.5	-0.7	30	16.71
16-12-apr	17:05:08	593	12.1	11.6	-0.5	30	16.72
16-12-apr	18:05:08	593	10.7	10.9	0.2	30	16.70
16-12-apr	19:05:08	594	7.2	7.5	0.3	29	16.71
16-12-apr	20:05:08	594	4.6	4.3	-0.3	29	16.72
16-12-apr	21:05:08	594	3.5	2.7	-0.8	29	16.71
16-12-apr	22:05:08	594	2.3	1.3	-1.0	29	16.72
16-12-apr	23:05:08	594	1.8	0.7	-1.1	29	16.70

BGI PQ200 Air Sampling System Downloaded 2016 20 apr 09:42:58

Job Details:

Job Name: 16Apr20C.JOB
Version: 5.62
Serial No: 964
Pump Time: 5329:13
Flags:

Job Code:
Site Name: 964C
Station Code:
Operators: KN
User1:
User2:

	Max	Min	Avg	Units
BP	595	593	594	mmHg
TA	14.8	-5	5	°C
Q	---	---	16.71	Lpm

QCV 0.56 %

Max overheat 3.8 °C
occured 18-apr 14:17:45

Timer Information:

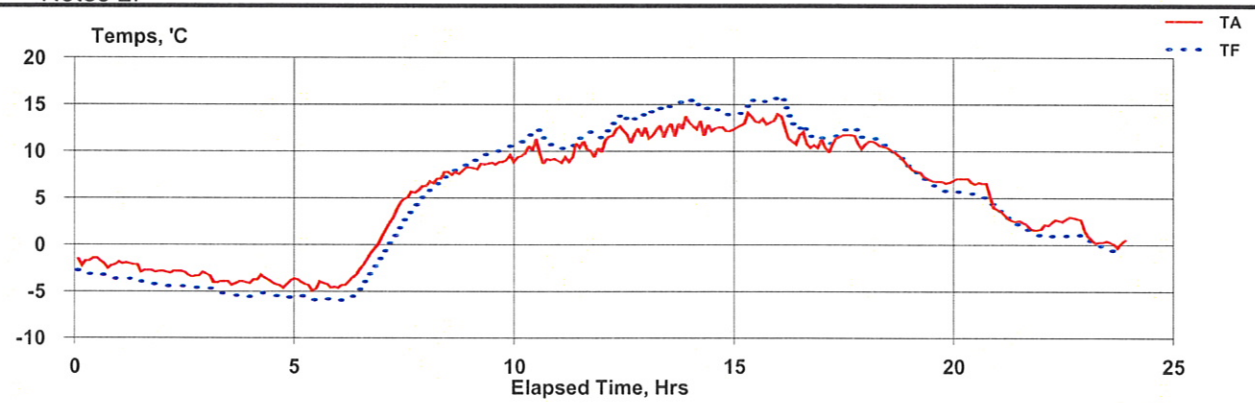
	Date dd-mmm	Time hh:mm:ss
Start:	16-18-apr	0:00:08
Stop:	16-19-apr	0:00:05

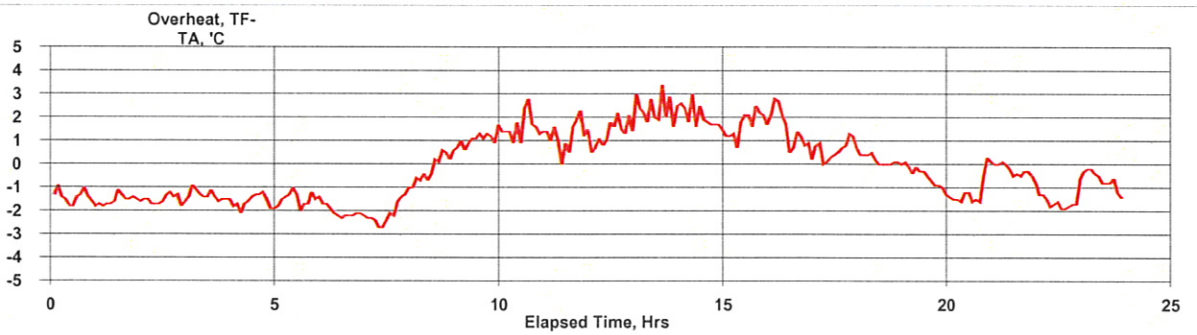
ET: 23:59

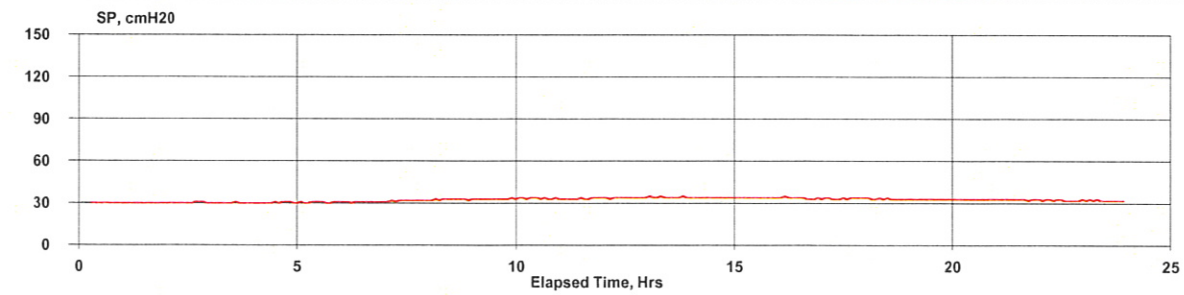
Mass Concentration Data:

Filter ID:	15	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-18-apr	0:05:08	595	-1.9	-3.3	-1.4	30	16.71
16-18-apr	1:05:08	595	-2.5	-4.0	-1.5	30	16.71
16-18-apr	2:05:08	595	-3.0	-4.6	-1.5	30	16.72
16-18-apr	3:05:08	595	-3.9	-5.3	-1.3	30	16.72
16-18-apr	4:05:08	595	-3.9	-5.5	-1.6	30	16.71
16-18-apr	5:05:08	595	-4.3	-5.8	-1.5	31	16.71
16-18-apr	6:05:08	595	-2.1	-4.2	-2.1	31	16.72
16-18-apr	7:05:08	595	4.6	2.5	-2.0	32	16.71
16-18-apr	8:05:08	595	7.6	7.4	-0.1	33	16.71
16-18-apr	9:05:08	595	8.8	9.8	1.1	33	16.71
16-18-apr	10:05:08	595	9.7	11.2	1.6	34	16.71
16-18-apr	11:05:08	595	9.9	11.2	1.2	33	16.70
16-18-apr	12:05:08	594	11.9	13.3	1.3	34	16.72
16-18-apr	13:05:08	594	12.4	14.8	2.4	34	16.71
16-18-apr	14:05:08	594	12.5	14.5	2.0	34	16.71
16-18-apr	15:05:08	594	13.3	15.0	1.7	34	16.72
16-18-apr	16:05:08	594	11.4	12.9	1.4	34	16.72
16-18-apr	17:05:08	594	11.1	11.7	0.6	34	16.72
16-18-apr	18:05:08	594	10.1	10.2	0.2	33	16.71
16-18-apr	19:05:08	594	7.1	6.6	-0.5	33	16.72
16-18-apr	20:05:08	594	6.2	5.1	-1.1	33	16.71
16-18-apr	21:05:08	595	2.4	2.1	-0.3	33	16.71
16-18-apr	22:05:08	595	2.5	1.0	-1.6	32	16.72
16-18-apr	23:05:08	595	0.3	-0.3	-0.7	32	16.71

BGI PQ200 Air Sampling System Downloaded 2016 25 apr 10:47:19

Job Details:

Job Name: 16Apr25C.JOB
Version: 5.62
Serial No: 964
Pump Time: 5353:12
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	590	585	588	mmHg
TA	17.7	-2.9	7.7	°C
Q	---	---	16.7	Lpm

QCV 0.5 %

Max overheat 3.2 °C
occured 24-apr 14:02:19

Timer Information:

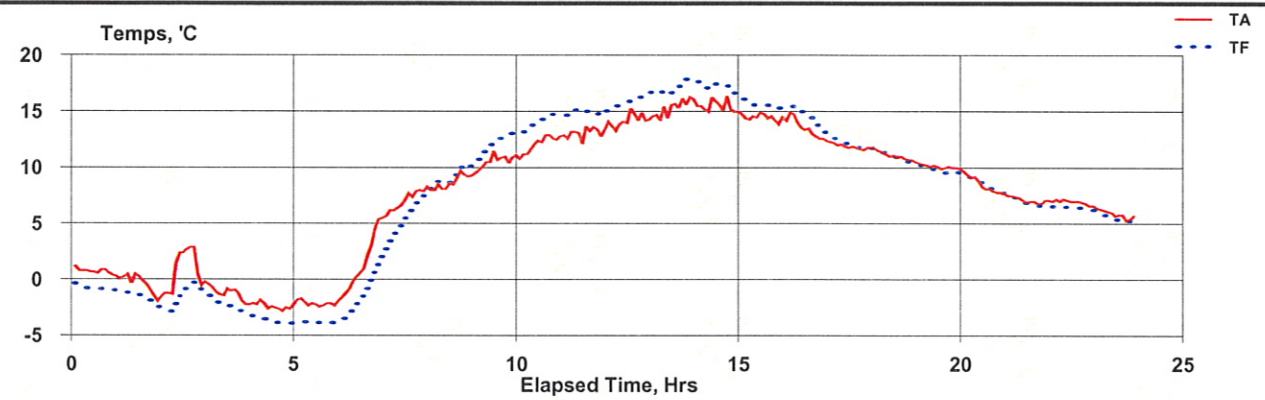
	Date dd-mmm	Time hh:mm:ss
Start:	16-24-apr	0:00:08
Stop:	16-25-apr	0:00:05

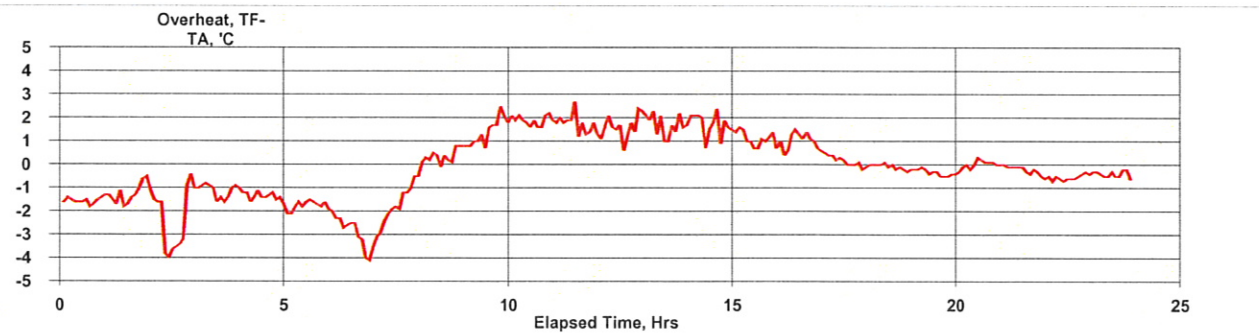
ET: 23:59

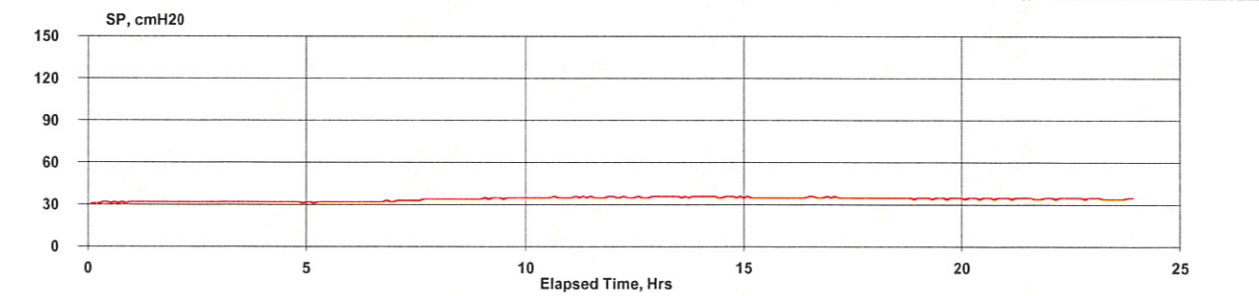
Mass Concentration Data:

Filter ID:	18	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-24-apr	0:05:08	590	0.7	-0.8	-1.5	32	16.71
16-24-apr	1:05:08	590	-0.4	-1.7	-1.3	32	16.71
16-24-apr	2:05:08	590	0.9	-1.5	-2.4	32	16.71
16-24-apr	3:05:08	590	-1.3	-2.4	-1.1	32	16.70
16-24-apr	4:05:08	590	-2.4	-3.7	-1.4	32	16.71
16-24-apr	5:05:08	589	-2.1	-3.9	-1.8	32	16.70
16-24-apr	6:05:08	590	1.6	-1.3	-2.9	32	16.71
16-24-apr	7:05:08	590	7.1	5.4	-1.7	33	16.71
16-24-apr	8:05:08	590	8.7	9.1	0.4	34	16.71
16-24-apr	9:05:08	590	10.6	12.0	1.4	35	16.72
16-24-apr	10:05:08	589	12.1	14.0	1.9	35	16.70
16-24-apr	11:05:08	589	13.1	14.9	1.7	35	16.70
16-24-apr	12:05:08	589	14.2	15.8	1.6	35	16.72
16-24-apr	13:05:08	588	15.4	17.0	1.7	36	16.70
16-24-apr	14:05:08	588	15.5	17.2	1.7	36	16.70
16-24-apr	15:05:08	588	14.5	15.6	1.1	35	16.71
16-24-apr	16:05:08	587	13.5	14.5	1.0	35	16.70
16-24-apr	17:05:08	587	11.9	12.1	0.1	35	16.71
16-24-apr	18:05:08	587	11.0	11.0	-0.1	35	16.71
16-24-apr	19:05:08	587	10.1	9.8	-0.3	35	16.71
16-24-apr	20:05:08	587	8.5	8.5	0.0	35	16.70
16-24-apr	21:05:08	587	7.1	6.9	-0.2	35	16.71
16-24-apr	22:05:08	586	7.0	6.4	-0.5	35	16.70
16-24-apr	23:05:08	585	5.9	5.5	-0.4	34	16.72

BGI PQ200 Air Sampling System Downloaded 2016 02 may 10:07:37

Job Details:

Job Name:	16May02C.JOB
Version:	5.62
Serial No:	964
Pump Time:	5377:11
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	589	585	587	mmHg
TA	8.9	0.4	3.2	°C
Q	---	---	16.7	Lpm

QCV	0.56 %
Max overheat	2.5 °C
occured	30-apr 16:01:11

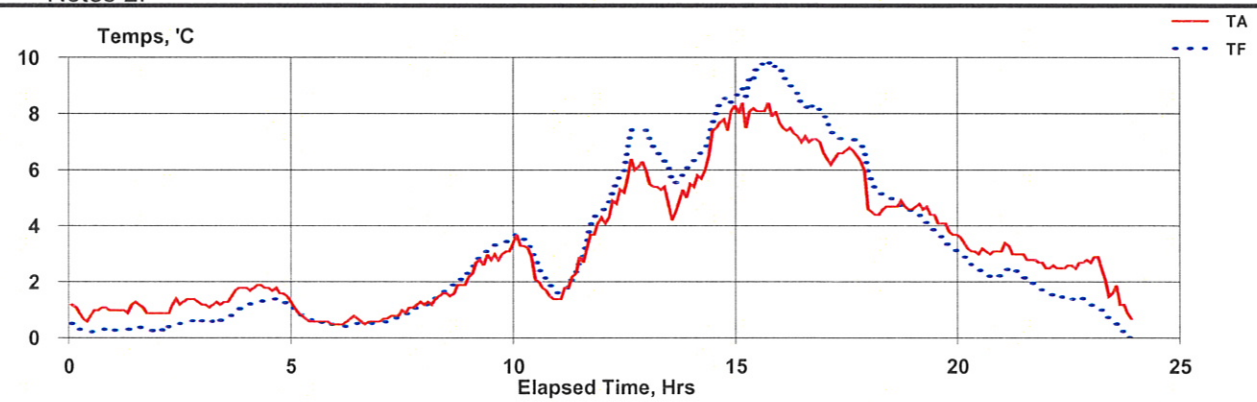
Timer Information:

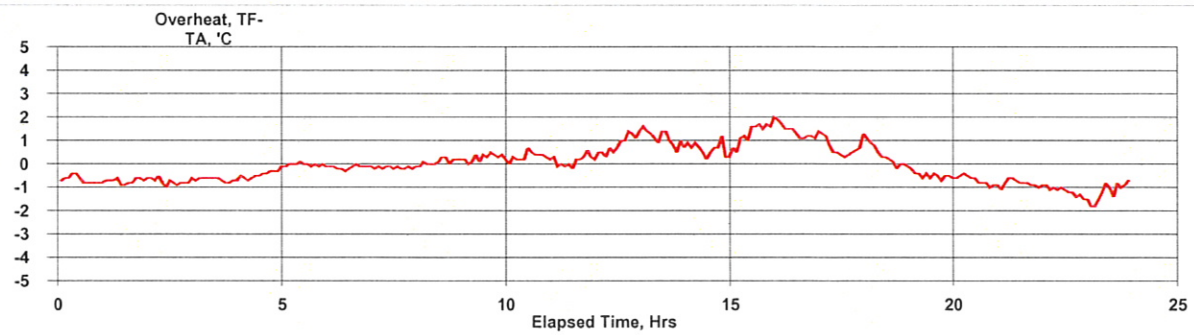
	Date dd-mmm	Time hh:mm:ss
Start:	16-30-apr	0:00:08
Stop:	16-01-may	0:00:05
ET:	23:59	

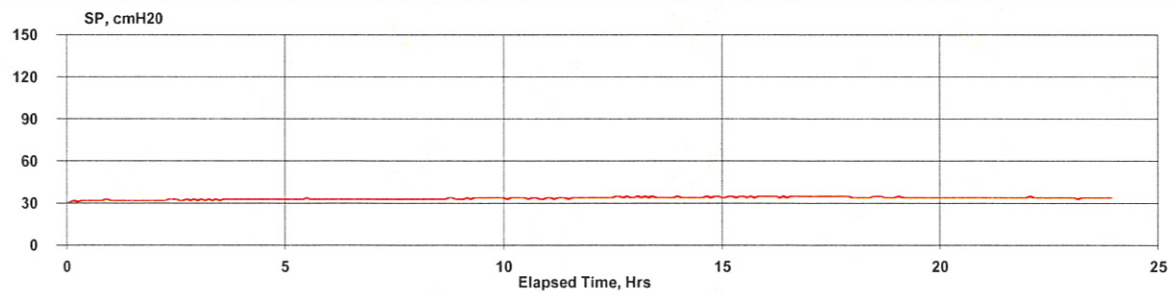
Mass Concentration Data:

Filter ID:	23	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.038	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-30-apr	0:05:08	587	1.0	0.3	-0.7	32	16.70
16-30-apr	1:05:08	587	1.0	0.3	-0.7	32	16.71
16-30-apr	2:05:08	587	1.2	0.5	-0.8	32	16.70
16-30-apr	3:05:08	587	1.4	0.8	-0.7	33	16.71
16-30-apr	4:05:08	587	1.7	1.3	-0.4	33	16.71
16-30-apr	5:05:08	587	0.7	0.7	0.0	33	16.69
16-30-apr	6:05:08	587	0.6	0.5	-0.1	33	16.72
16-30-apr	7:05:08	587	1.0	0.8	-0.2	33	16.71
16-30-apr	8:05:08	587	1.6	1.7	0.1	33	16.71
16-30-apr	9:05:08	587	2.9	3.2	0.3	34	16.74
16-30-apr	10:05:08	588	2.4	2.7	0.3	34	16.71
16-30-apr	11:05:08	588	2.8	3.0	0.1	34	16.71
16-30-apr	12:05:08	588	5.4	6.3	0.9	34	16.69
16-30-apr	13:05:08	588	5.1	6.2	1.1	34	16.68
16-30-apr	14:05:08	587	7.0	7.6	0.6	34	16.71
16-30-apr	15:05:08	587	8.1	9.4	1.4	35	16.71
16-30-apr	16:05:08	587	7.2	8.5	1.4	35	16.71
16-30-apr	17:05:08	588	6.3	7.0	0.7	35	16.72
16-30-apr	18:05:08	588	4.6	5.0	0.3	34	16.72
16-30-apr	19:05:08	588	4.3	3.8	-0.5	34	16.71
16-30-apr	20:05:08	589	3.2	2.5	-0.7	34	16.71
16-30-apr	21:05:08	589	2.9	2.1	-0.8	34	16.71
16-30-apr	22:05:08	589	2.6	1.4	-1.2	34	16.71
16-30-apr	23:05:08	588	1.8	0.6	-1.2	34	16.71

BGI PQ200 Air Sampling System Downloaded 2016 09 may 15:38:40

Job Details:

Job Name: 16May09C.JOB
Version: 5.62
Serial No: 964
Pump Time: 5401:10
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	589	586	587	mmHg
TA	16.2	-0.7	8	°C
Q	---	---	16.7	Lpm

QCV 0.57 %

Max overheat 3.5 °C
occured 07-may 12:49:29

Timer Information:

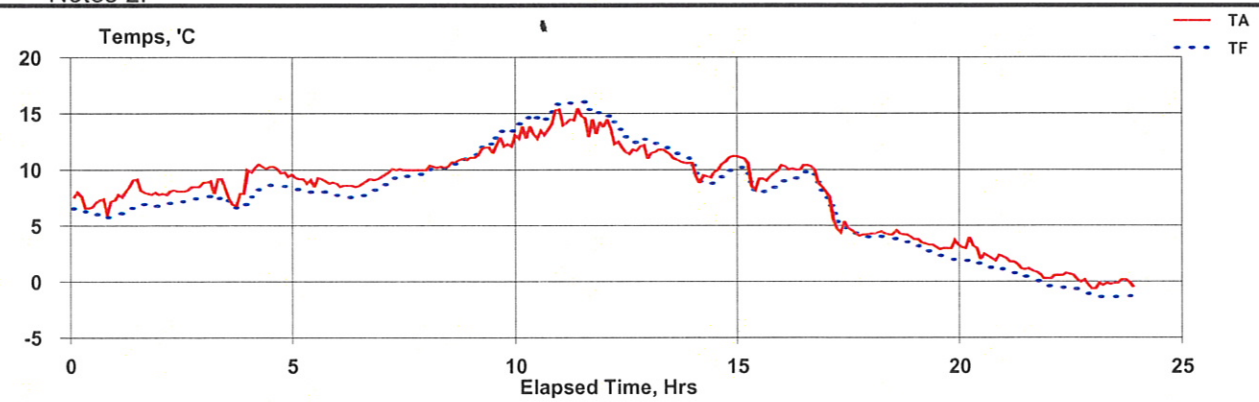
	Date dd-mmm	Time hh:mm:ss
Start:	16-06-may	0:00:08
Stop:	16-07-may	0:00:05

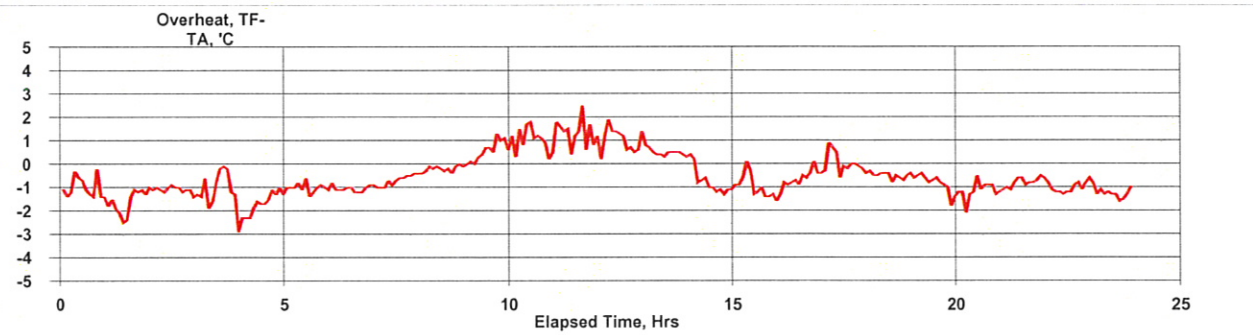
ET: 23:59

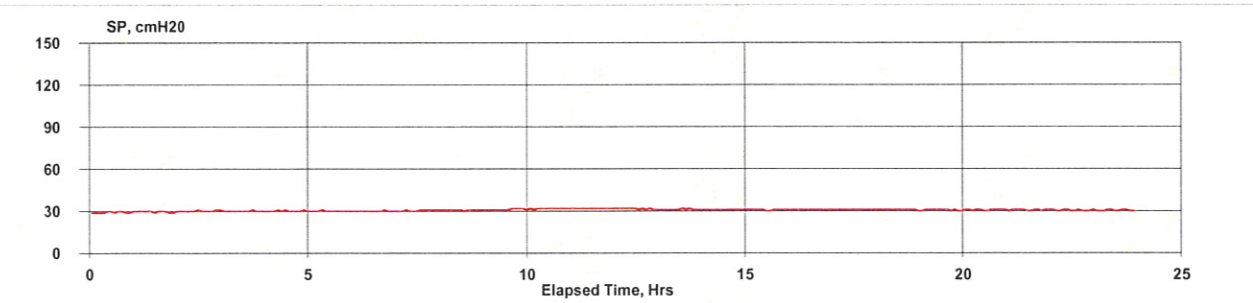
Mass Concentration Data:

Filter ID:	28	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.039	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-06-may	0:05:08	588	7.1	6.1	-1.0	29	16.71
16-06-may	1:05:08	589	8.2	6.6	-1.6	30	16.71
16-06-may	2:05:08	588	8.2	7.2	-1.1	30	16.71
16-06-may	3:05:08	588	8.3	7.2	-1.1	30	16.71
16-06-may	4:05:08	588	10.0	8.3	-1.7	30	16.72
16-06-may	5:05:08	588	9.0	8.0	-1.0	30	16.71
16-06-may	6:05:08	588	8.8	7.8	-1.0	30	16.72
16-06-may	7:05:08	588	10.0	9.3	-0.7	31	16.72
16-06-may	8:05:08	588	10.6	10.4	-0.2	31	16.71
16-06-may	9:05:08	588	12.0	12.6	0.6	31	16.71
16-06-may	10:05:08	588	13.7	14.7	1.0	32	16.71
16-06-may	11:05:08	587	14.2	15.6	1.3	32	16.69
16-06-may	12:05:08	587	12.2	13.3	1.0	32	16.70
16-06-may	13:05:08	587	11.2	11.7	0.5	31	16.72
16-06-may	14:05:08	587	10.1	9.3	-0.8	31	16.72
16-06-may	15:05:08	587	9.7	8.7	-1.0	31	16.70
16-06-may	16:05:08	587	9.7	9.1	-0.6	31	16.70
16-06-may	17:05:08	588	4.8	4.9	0.0	31	16.71
16-06-may	18:05:08	588	4.3	3.8	-0.5	31	16.72
16-06-may	19:05:08	588	3.3	2.4	-0.8	31	16.71
16-06-may	20:05:08	588	2.7	1.5	-1.2	31	16.72
16-06-may	21:05:08	588	1.2	0.4	-0.8	31	16.71
16-06-may	22:05:08	588	0.3	-0.7	-1.0	30	16.72
16-06-may	23:05:08	588	-0.1	-1.4	-1.2	30	16.71

BGI PQ200 Air Sampling System Downloaded 2016 13 may 07:44:14

Job Details:

Job Name:	16May13C.JOB	Job Code:	
Version:	5.62	Site Name:	964C
Serial No:	964	Station Code:	
Pump Time:	5425:09	Operators:	KN
Flags:		User1:	
		User2:	

	Max	Min	Avg	Units
BP	598	594	596	mmHg
TA	22.5	0.4	11.9	°C
Q	---	---	16.7	Lpm

QCV	0.58 %
Max overheat	2.8 °C
occured	12-may 15:33:35

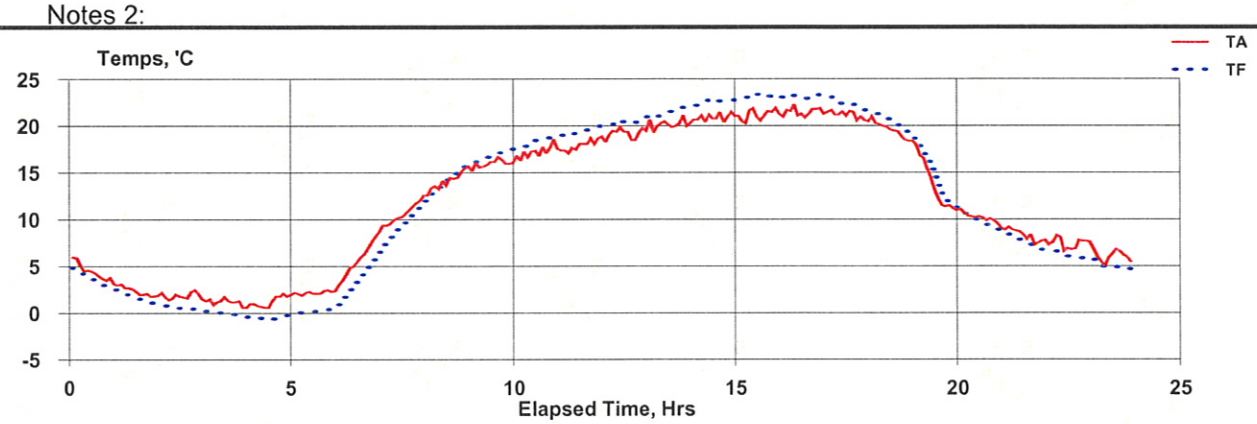
Timer Information:

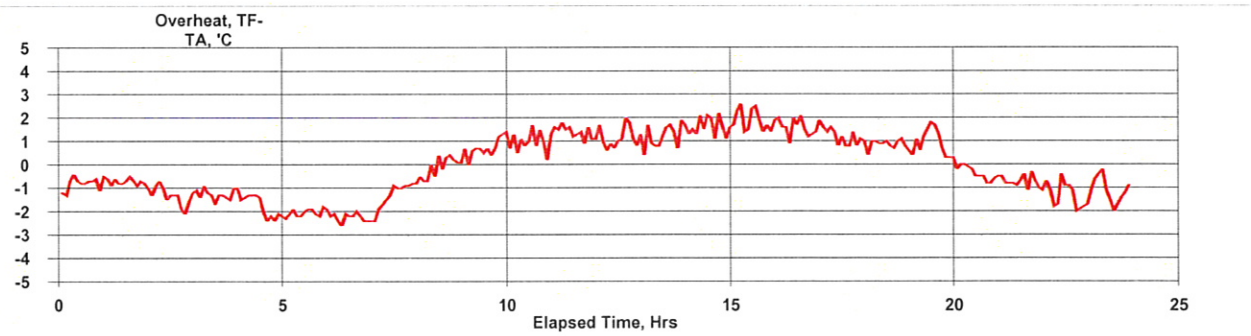
	Date dd-mmm	Time hh:mm:ss
Start:	16-12-may	0:00:08
Stop:	16-13-may	0:00:04
ET:	23:59	

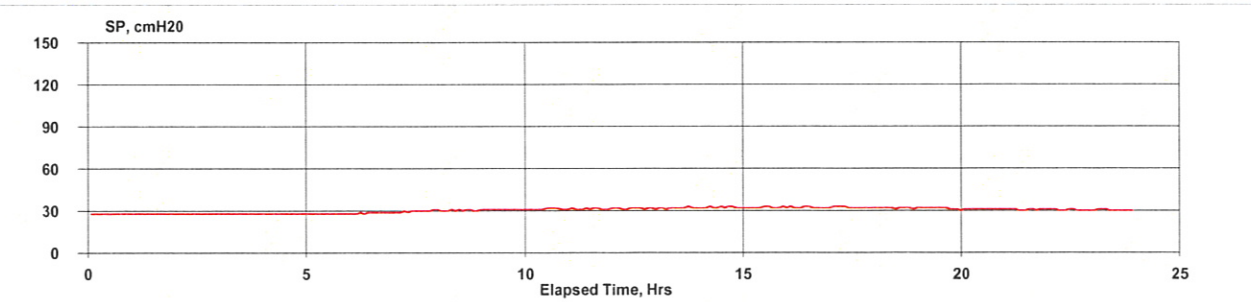
Mass Concentration Data:

Filter ID:	33	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-12-may	0:05:08	596	4.4	3.6	-0.8	28	16.71
16-12-may	1:05:08	596	2.3	1.6	-0.8	28	16.71
16-12-may	2:05:08	596	1.9	0.5	-1.3	28	16.71
16-12-may	3:05:08	597	1.2	-0.1	-1.3	28	16.71
16-12-may	4:05:08	597	1.3	-0.5	-1.8	28	16.71
16-12-may	5:05:08	597	2.2	0.2	-2.0	28	16.71
16-12-may	6:05:08	597	5.8	3.6	-2.3	29	16.73
16-12-may	7:05:08	598	10.7	9.4	-1.3	30	16.69
16-12-may	8:05:08	598	14.2	14.1	-0.1	30	16.74
16-12-may	9:05:08	598	16.0	16.8	0.7	31	16.72
16-12-may	10:05:08	598	17.3	18.3	1.0	31	16.71
16-12-may	11:05:08	598	18.0	19.4	1.4	31	16.69
16-12-may	12:05:08	597	19.2	20.4	1.2	32	16.71
16-12-may	13:05:08	597	20.2	21.5	1.2	32	16.71
16-12-may	14:05:08	597	20.9	22.6	1.6	32	16.70
16-12-may	15:05:08	596	21.2	23.1	1.9	32	16.71
16-12-may	16:05:08	596	21.5	23.1	1.6	32	16.71
16-12-may	17:05:08	596	21.2	22.3	1.2	32	16.71
16-12-may	18:05:08	596	19.5	20.4	0.9	32	16.71
16-12-may	19:05:08	596	13.6	14.5	0.9	32	16.71
16-12-may	20:05:08	596	10.2	9.8	-0.4	31	16.71
16-12-may	21:05:08	596	8.3	7.5	-0.8	31	16.71
16-12-may	22:05:08	596	7.4	6.1	-1.3	30	16.71
16-12-may	23:05:08	596	6.1	5.0	-1.1	30	16.71

BGI PQ200 Air Sampling System Downloaded 2016 20 may 04:50:42

Job Details:

Job Name:	16May20C.JOB	Job Code:	
Version:	5.62	Site Name:	964C
Serial No:	964	Station Code:	
Pump Time:	5449:08	Operators:	KN
Flags:		User1:	
		User2:	

	Max	Min	Avg	Units
BP	594	591	592	mmHg
TA	14.6	3.3	8.9	°C
Q	---	---	16.71	Lpm

QCV	0.54 %
Max overheat	2.6 °C
occured	19-may 14:04:34

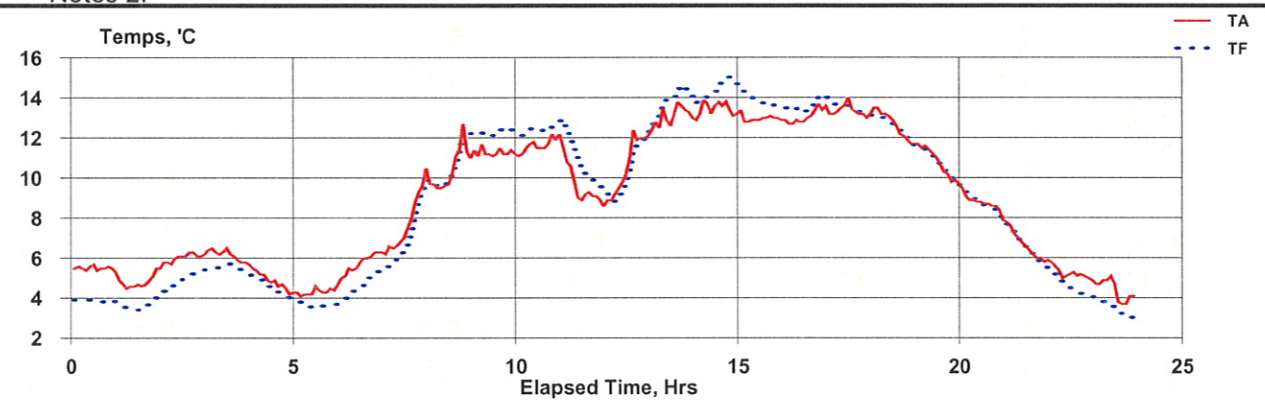
Timer Information:

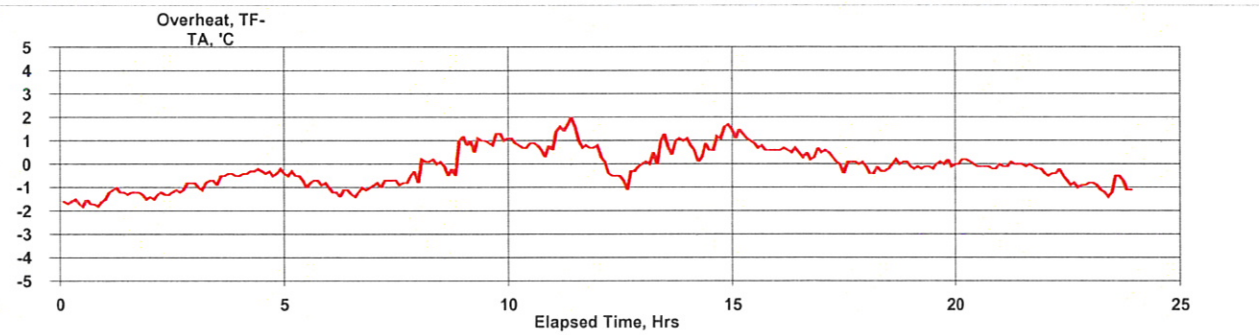
	Date dd-mmm	Time hh:mm:ss
Start:	16-18-may	0:00:08
Stop:	16-19-may	0:00:05
ET:	23:59	

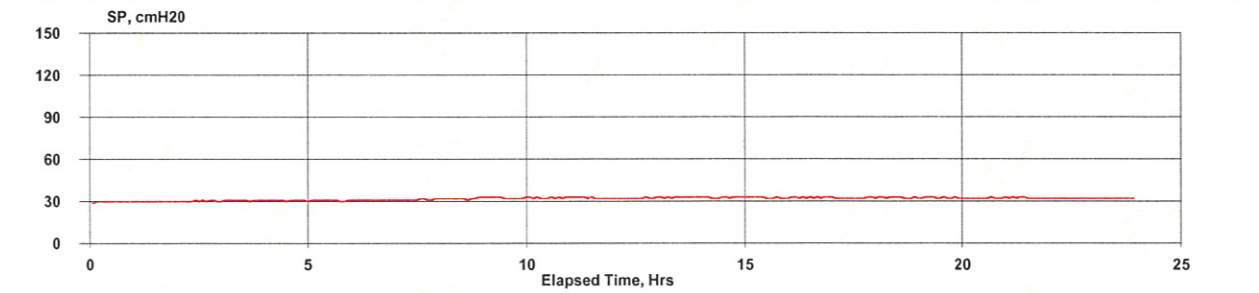
Mass Concentration Data:

Filter ID:		
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.038	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-18-may	0:05:08	593	5.5	3.9	-1.6	30	16.70
16-18-may	1:05:08	593	4.9	3.6	-1.2	30	16.71
16-18-may	2:05:08	592	6.0	4.9	-1.1	30	16.74
16-18-may	3:05:08	593	6.1	5.5	-0.7	31	16.71
16-18-may	4:05:08	593	4.9	4.5	-0.3	31	16.72
16-18-may	5:05:08	593	4.4	3.7	-0.7	31	16.72
16-18-may	6:05:08	593	5.8	4.6	-1.2	31	16.71
16-18-may	7:05:08	593	7.8	7.1	-0.7	31	16.71
16-18-may	8:05:08	593	10.5	10.6	0.1	32	16.71
16-18-may	9:05:08	593	11.3	12.3	1.0	33	16.71
16-18-may	10:05:08	593	11.7	12.4	0.8	33	16.71
16-18-may	11:05:08	593	9.6	10.8	1.2	32	16.71
16-18-may	12:05:08	593	10.7	10.3	-0.3	32	16.71
16-18-may	13:05:08	593	13.1	13.8	0.7	33	16.70
16-18-may	14:05:08	593	13.5	14.4	0.9	33	16.69
16-18-may	15:05:08	592	13.0	13.9	0.9	33	16.70
16-18-may	16:05:08	592	13.1	13.6	0.5	33	16.72
16-18-may	17:05:08	592	13.3	13.5	0.1	32	16.71
16-18-may	18:05:08	592	12.6	12.5	-0.1	33	16.70
16-18-may	19:05:08	592	10.8	10.7	-0.1	32	16.72
16-18-may	20:05:08	593	8.7	8.7	0.0	32	16.71
16-18-may	21:05:08	593	6.6	6.5	-0.1	32	16.70
16-18-may	22:05:08	593	5.2	4.6	-0.7	32	16.71
16-18-may	23:05:08	593	4.4	3.4	-1.0	32	16.70

BGI PQ200 Air Sampling System Downloaded 2016 25 may 10:19:15

Job Details:

Job Name: 16May25C.JOB
Version: 5.62
Serial No: 964
Pump Time: 5473:07
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	592	586	589	mmHg
TA	17.2	-1.6	8.4	°C
Q	---	---	16.71	Lpm

QCV 0.58 %
Max overheat 2.6 °C
occured 24-may 14:53:33

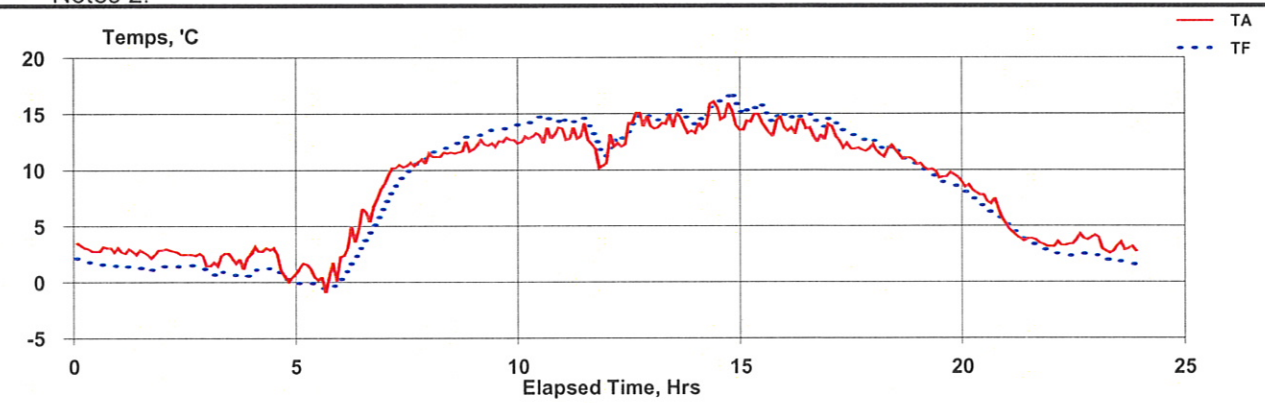
Timer Information:

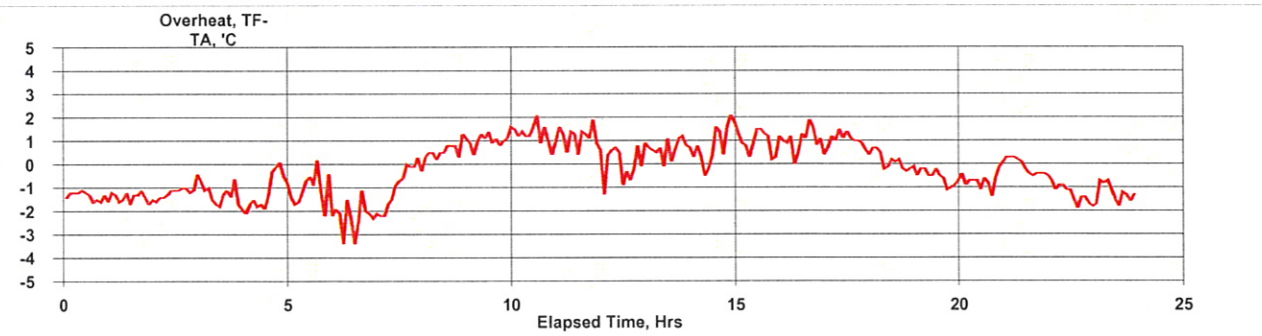
	Date dd-mmm	Time hh:mm:ss
Start:	16-24-may	0:00:08
Stop:	16-25-may	0:00:05
ET:	23:59	

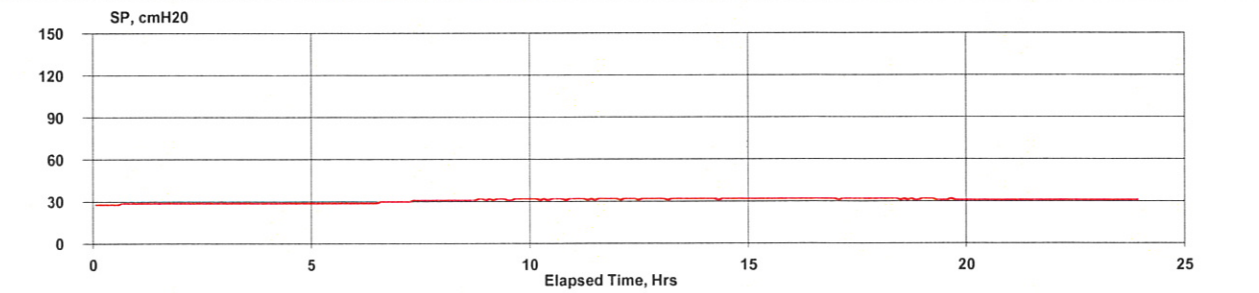
Mass Concentration Data:

Filter ID:	11	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-24-may	0:05:08	588	3.0	1.7	-1.4	28	16.72
16-24-may	1:05:08	588	2.7	1.3	-1.4	29	16.71
16-24-may	2:05:08	588	2.5	1.4	-1.1	29	16.71
16-24-may	3:05:08	588	2.0	0.7	-1.3	29	16.71
16-24-may	4:05:08	588	2.0	0.8	-1.1	29	16.71
16-24-may	5:05:08	588	0.9	-0.2	-1.2	29	16.71
16-24-may	6:05:08	588	5.7	3.5	-2.2	30	16.71
16-24-may	7:05:08	589	10.5	9.7	-0.8	31	16.71
16-24-may	8:05:08	589	11.6	12.2	0.6	31	16.72
16-24-may	9:05:08	589	12.5	13.5	1.1	32	16.71
16-24-may	10:05:08	589	13.1	14.4	1.3	32	16.70
16-24-may	11:05:08	589	12.3	13.4	1.1	32	16.72
16-24-may	12:05:08	589	13.6	13.6	0.0	32	16.70
16-24-may	13:05:08	589	14.0	14.7	0.7	32	16.72
16-24-may	14:05:08	589	14.8	15.6	0.8	32	16.71
16-24-may	15:05:08	589	14.1	15.1	1.0	32	16.71
16-24-may	16:05:08	589	13.5	14.5	1.0	32	16.72
16-24-may	17:05:08	589	12.3	13.3	1.0	32	16.71
16-24-may	18:05:08	590	11.4	11.5	0.1	32	16.71
16-24-may	19:05:08	590	9.7	9.2	-0.6	31	16.71
16-24-may	20:05:08	590	7.3	6.7	-0.7	31	16.72
16-24-may	21:05:08	591	3.8	3.7	-0.1	31	16.72
16-24-may	22:05:08	591	3.7	2.4	-1.3	31	16.71
16-24-may	23:05:08	591	3.1	1.8	-1.2	31	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 06 jun 13:56:50

Job Details:

Job Name: 16Jun06C.JOB
Version: 5.62
Serial No: 964
Pump Time: 5521:05
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	595	591	593	mmHg
TA	32.8	9.6	22.1	°C
Q	---	---	16.7	Lpm

QCV 0.52 %

Max overheat 2.3 °C
occured 05-jun 14:15:48

Timer Information:

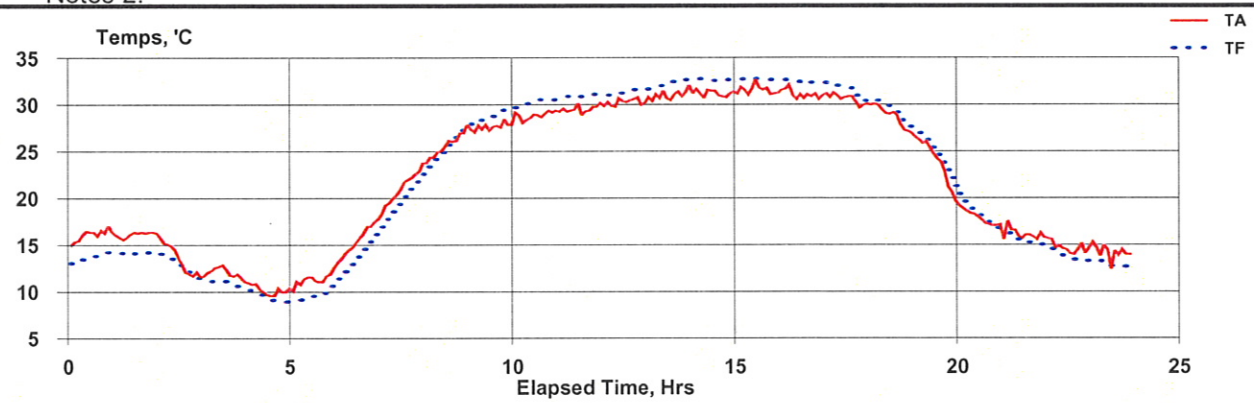
	Date dd-mmm	Time hh:mm:ss
Start:	16-05-jun	0:00:08
Stop:	16-06-jun	0:00:05

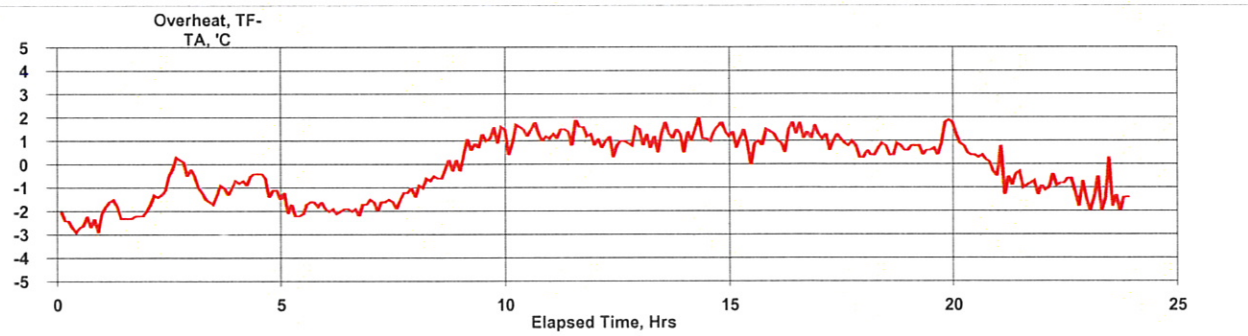
ET: 23:59

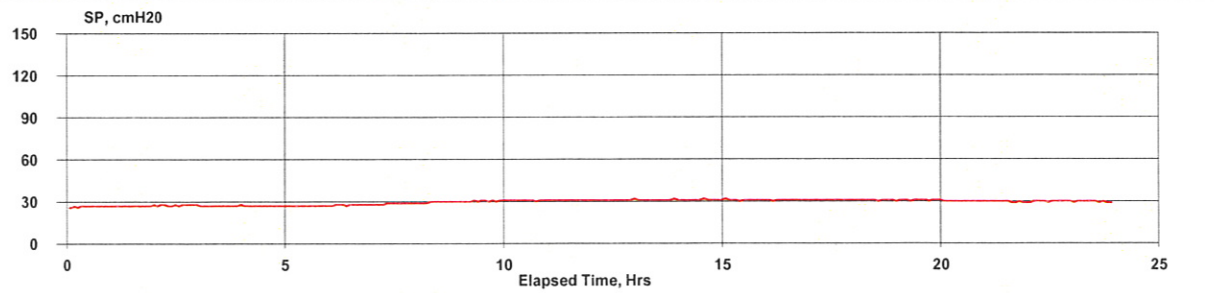
Mass Concentration Data:

Filter ID:	17	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-05-jun	0:05:08	595	16.1	13.7	-2.5	27	16.71
16-05-jun	1:05:08	595	16.2	14.1	-2.0	27	16.70
16-05-jun	2:05:08	595	13.5	12.8	-0.6	28	16.71
16-05-jun	3:05:08	595	12.1	10.9	-1.1	27	16.71
16-05-jun	4:05:08	595	10.2	9.4	-0.8	27	16.71
16-05-jun	5:05:08	595	11.4	9.5	-1.8	27	16.71
16-05-jun	6:05:08	595	15.6	13.7	-1.9	28	16.71
16-05-jun	7:05:08	595	21.2	19.7	-1.5	29	16.71
16-05-jun	8:05:08	595	25.7	25.3	-0.4	30	16.72
16-05-jun	9:05:08	595	27.7	28.8	1.1	31	16.70
16-05-jun	10:05:08	594	28.9	30.2	1.3	31	16.72
16-05-jun	11:05:08	594	29.6	30.9	1.3	31	16.71
16-05-jun	12:05:08	594	30.3	31.3	1.0	31	16.70
16-05-jun	13:05:08	593	31.0	32.2	1.1	31	16.69
16-05-jun	14:05:08	593	31.2	32.6	1.4	31	16.71
16-05-jun	15:05:08	592	31.6	32.6	1.0	31	16.72
16-05-jun	16:05:08	592	31.1	32.4	1.3	31	16.72
16-05-jun	17:05:08	591	30.6	31.5	0.9	31	16.71
16-05-jun	18:05:08	591	28.8	29.4	0.6	31	16.71
16-05-jun	19:05:08	591	24.0	24.9	1.0	31	16.71
16-05-jun	20:05:08	592	17.9	18.3	0.4	30	16.71
16-05-jun	21:05:08	592	16.2	15.5	-0.7	30	16.71
16-05-jun	22:05:08	592	14.7	13.8	-1.0	30	16.72
16-05-jun	23:05:08	592	14.2	12.9	-1.4	30	16.71

BGI PQ200 Air Sampling System Downloaded 2016 14 jun 14:17:42

Job Details:

Job Name:	16Jun14C.JOB
Version:	5.62
Serial No:	964
Pump Time:	5545:04
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	595	591	594	mmHg
TA	24.3	8.9	16.6	°C
Q	---	---	16.7	Lpm

QCV	0.57 %
Max overheat	3.7 °C
occured	11-jun 15:49:08

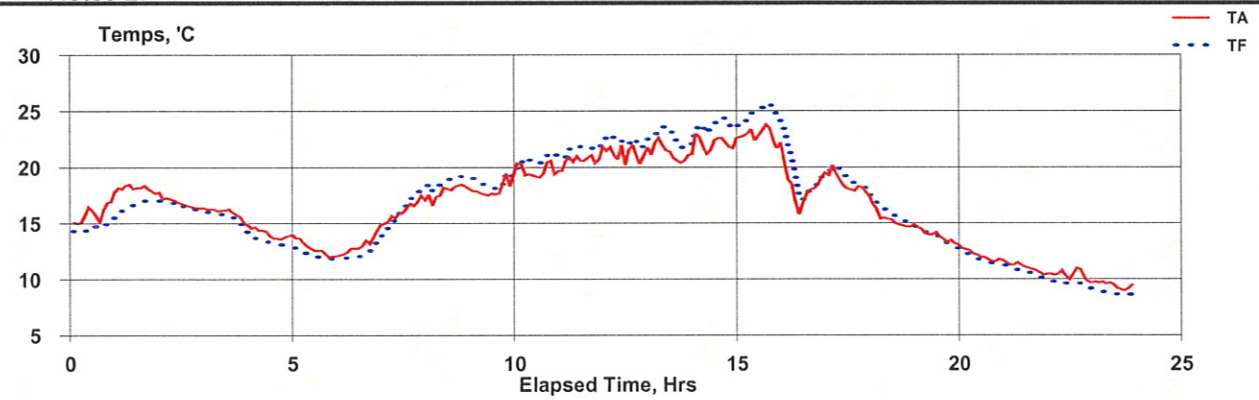
Timer Information:

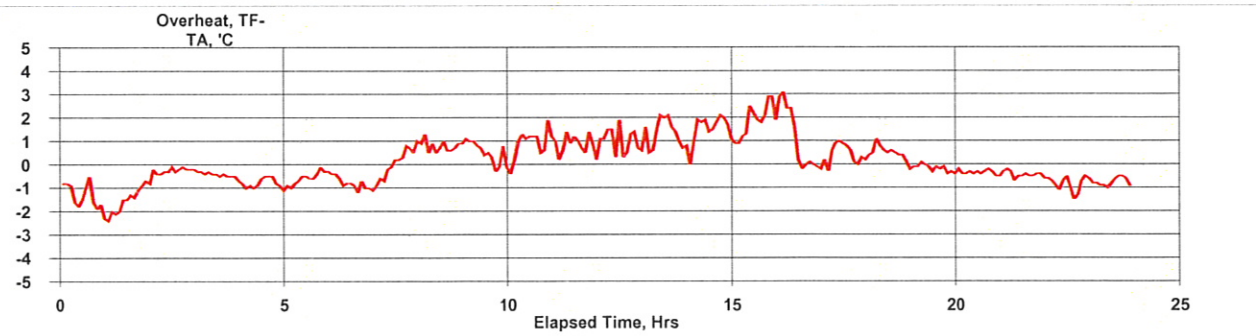
	Date dd-mmm	Time hh:mm:ss
Start:	16-11-jun	0:00:08
Stop:	16-12-jun	0:00:05
ET:	23:59	

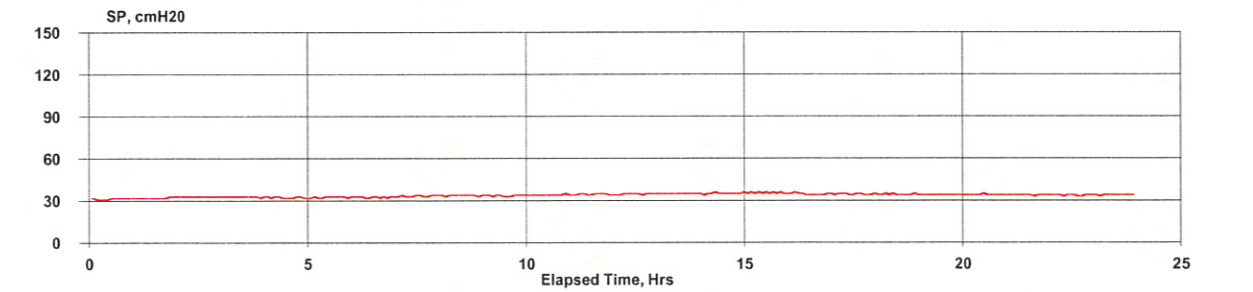
Mass Concentration Data:

Filter ID:	23	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-11-jun	0:05:08	593	16.0	14.7	-1.4	32	16.72
16-11-jun	1:05:08	594	18.1	16.7	-1.5	32	16.72
16-11-jun	2:05:08	594	16.8	16.6	-0.2	33	16.70
16-11-jun	3:05:08	594	15.9	15.5	-0.4	33	16.71
16-11-jun	4:05:08	594	14.1	13.3	-0.8	32	16.71
16-11-jun	5:05:08	594	12.7	12.2	-0.6	33	16.72
16-11-jun	6:05:08	594	13.2	12.4	-0.8	33	16.71
16-11-jun	7:05:08	594	16.2	16.3	0.1	34	16.71
16-11-jun	8:05:08	594	17.9	18.7	0.8	34	16.71
16-11-jun	9:05:08	594	18.1	18.6	0.5	34	16.71
16-11-jun	10:05:08	595	19.7	20.6	0.9	34	16.71
16-11-jun	11:05:08	594	20.7	21.6	0.8	35	16.71
16-11-jun	12:05:08	594	21.3	22.3	1.0	35	16.70
16-11-jun	13:05:08	594	21.3	22.6	1.3	35	16.71
16-11-jun	14:05:08	594	22.2	23.7	1.5	35	16.71
16-11-jun	15:05:08	594	22.8	24.7	1.9	35	16.71
16-11-jun	16:05:08	594	18.2	19.2	1.0	35	16.71
16-11-jun	17:05:08	594	18.5	18.9	0.4	35	16.71
16-11-jun	18:05:08	594	15.3	15.8	0.5	34	16.71
16-11-jun	19:05:08	594	13.8	13.7	-0.2	34	16.71
16-11-jun	20:05:08	594	12.1	11.7	-0.4	34	16.72
16-11-jun	21:05:08	594	11.0	10.6	-0.4	34	16.71
16-11-jun	22:05:08	594	10.4	9.5	-0.8	34	16.71
16-11-jun	23:05:08	594	9.5	8.7	-0.8	34	16.71

BGI PQ200 Air Sampling System Downloaded 2016 20 jun 09:55:13

Job Details:

Job Name: 16Jun20C.JOB
Version: 5.62
Serial No: 964
Pump Time: 5569:03
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	597	592	595	mmHg
TA	27.7	5.8	17.2	°C
Q	---	---	16.7	Lpm

QCV 0.56 %
Max overheat 3.4 °C
occured 19-jun 14:07:13

Timer Information:

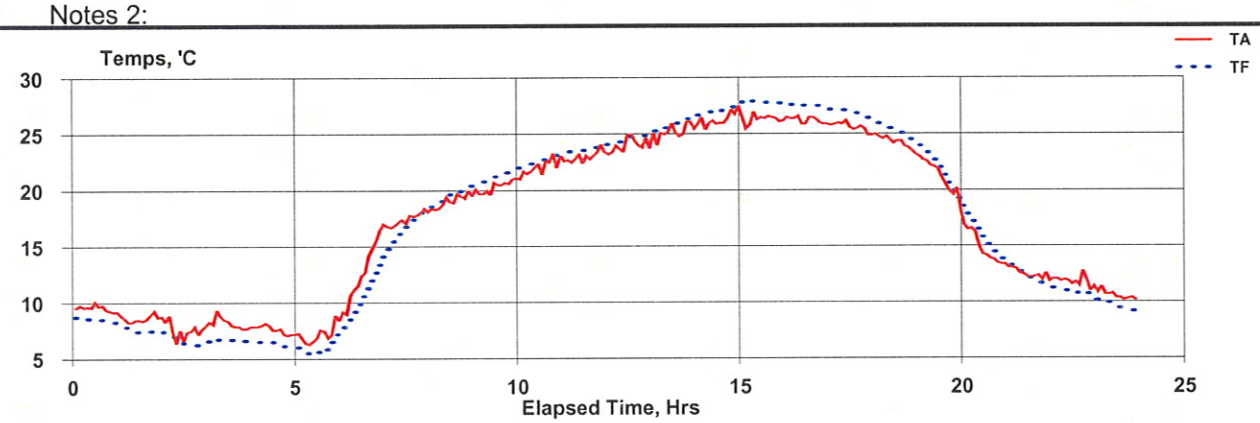
	Date dd-mmm	Time hh:mm:ss
Start:	16-17-jun	0:00:08
Stop:	16-18-jun	0:00:05

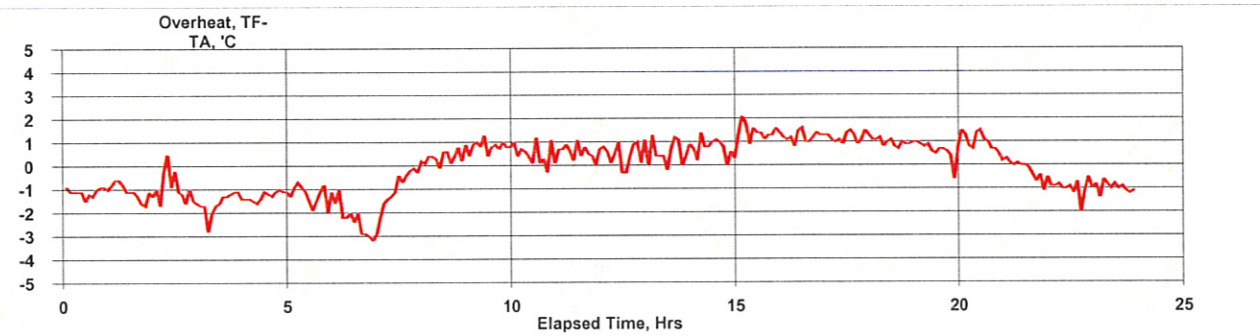
ET: 23:59

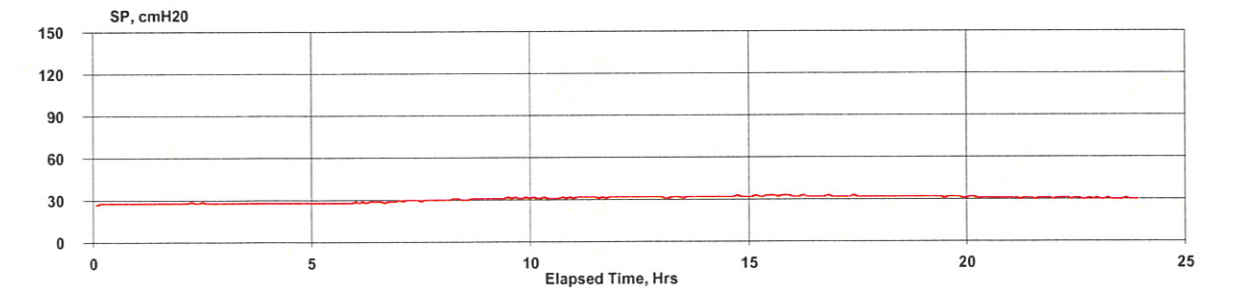
Mass Concentration Data:

Filter ID:	29	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-17-jun	0:05:08	595	9.6	8.5	-1.1	28	16.71
16-17-jun	1:05:08	595	8.7	7.6	-1.1	28	16.71
16-17-jun	2:05:08	595	7.6	6.6	-1.0	28	16.71
16-17-jun	3:05:08	595	8.2	6.6	-1.6	28	16.71
16-17-jun	4:05:08	595	7.6	6.4	-1.3	28	16.71
16-17-jun	5:05:08	595	7.2	6.0	-1.2	28	16.71
16-17-jun	6:05:08	596	12.9	10.6	-2.4	29	16.71
16-17-jun	7:05:08	596	17.5	16.7	-0.8	30	16.71
16-17-jun	8:05:08	596	19.1	19.5	0.4	31	16.71
16-17-jun	9:05:08	596	20.4	21.2	0.8	31	16.71
16-17-jun	10:05:08	596	22.1	22.6	0.5	31	16.72
16-17-jun	11:05:08	596	23.0	23.6	0.6	32	16.71
16-17-jun	12:05:08	596	24.0	24.5	0.5	32	16.71
16-17-jun	13:05:08	596	25.3	25.8	0.5	32	16.70
16-17-jun	14:05:08	596	26.3	27.0	0.7	32	16.71
16-17-jun	15:05:08	596	26.3	27.8	1.4	33	16.70
16-17-jun	16:05:08	595	26.2	27.5	1.2	32	16.71
16-17-jun	17:05:08	595	25.6	26.8	1.2	32	16.70
16-17-jun	18:05:08	595	24.3	25.2	1.0	32	16.71
16-17-jun	19:05:08	596	21.2	21.8	0.6	32	16.70
16-17-jun	20:05:08	596	14.8	15.8	0.9	31	16.71
16-17-jun	21:05:08	596	12.5	12.3	-0.2	31	16.70
16-17-jun	22:05:08	597	11.8	10.8	-1.0	31	16.71
16-17-jun	23:05:08	597	10.6	9.6	-1.0	30	16.71

BGI PQ200 Air Sampling System Downloaded 2016 24 jun 11:25:27

Job Details:

Job Name: 16Jun24C.JOB
Version: 5.62
Serial No: 964
Pump Time: 5593:02
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	596	593	594	mmHg
TA	32.7	11.5	22.7	°C
Q	---	---	16.7	Lpm

QCV 0.54 %
Max overheat 3.1 °C
occured 23-jun 14:32:21

Timer Information:

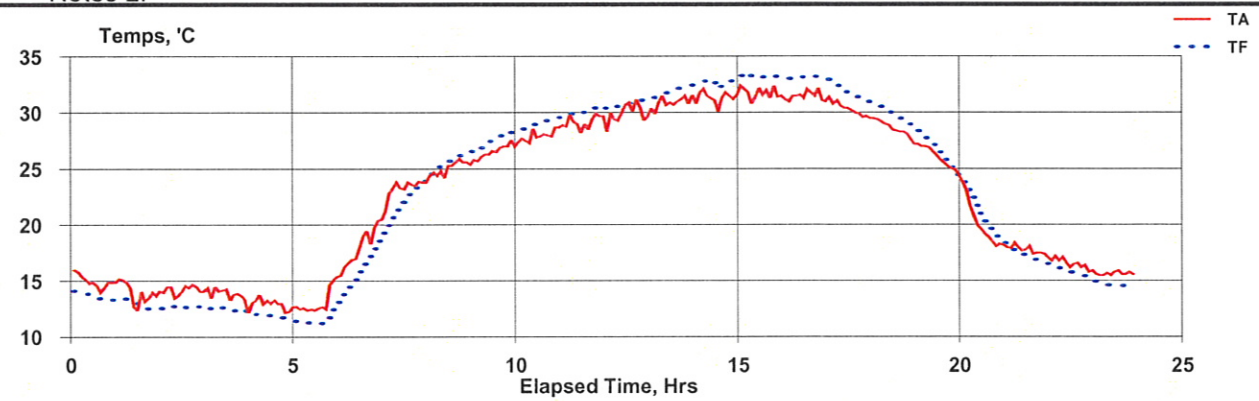
	Date dd-mmm	Time hh:mm:ss
Start:	16-23-jun	0:00:08
Stop:	16-24-jun	0:00:05

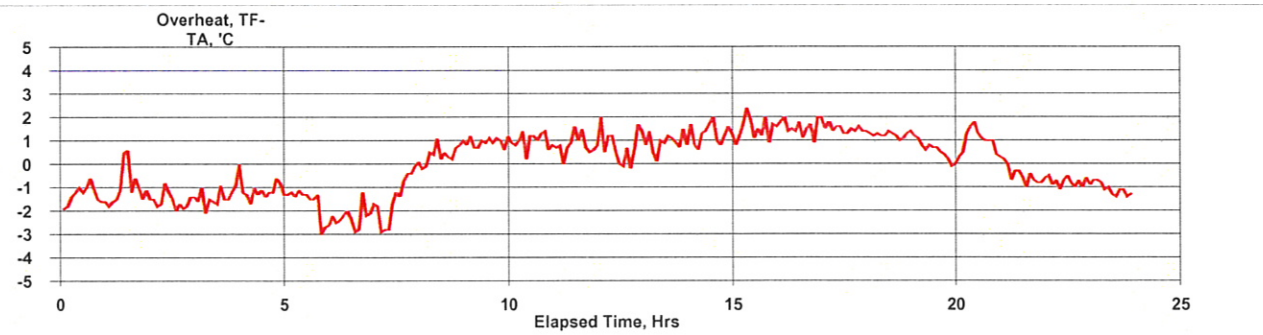
ET: 23:59

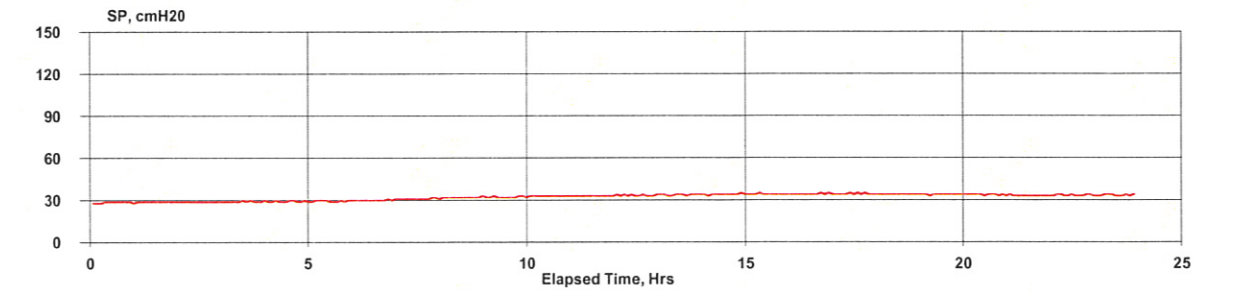
Mass Concentration Data:

Filter ID:	6	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-23-jun	0:05:08	595	15.0	13.7	-1.3	29	16.71
16-23-jun	1:05:08	595	13.9	13.0	-1.0	29	16.72
16-23-jun	2:05:08	595	14.2	12.7	-1.6	29	16.71
16-23-jun	3:05:08	595	13.8	12.5	-1.3	29	16.71
16-23-jun	4:05:08	595	13.0	11.8	-1.2	29	16.71
16-23-jun	5:05:08	595	13.2	11.5	-1.7	30	16.71
16-23-jun	6:05:08	596	18.2	15.9	-2.2	30	16.71
16-23-jun	7:05:08	596	23.3	22.0	-1.3	31	16.70
16-23-jun	8:05:08	596	25.1	25.6	0.5	32	16.72
16-23-jun	9:05:08	596	26.6	27.5	0.9	32	16.72
16-23-jun	10:05:08	596	28.0	29.0	1.0	33	16.71
16-23-jun	11:05:08	596	29.2	30.0	0.8	33	16.71
16-23-jun	12:05:08	595	30.0	30.7	0.8	33	16.71
16-23-jun	13:05:08	595	30.9	31.8	0.9	34	16.71
16-23-jun	14:05:08	595	31.3	32.6	1.3	34	16.70
16-23-jun	15:05:08	594	31.7	33.2	1.5	34	16.72
16-23-jun	16:05:08	594	31.5	33.1	1.6	34	16.70
16-23-jun	17:05:08	594	30.3	31.8	1.5	34	16.71
16-23-jun	18:05:08	594	28.5	29.8	1.2	34	16.70
16-23-jun	19:05:08	594	26.0	26.5	0.6	34	16.71
16-23-jun	20:05:08	594	20.0	21.0	1.0	34	16.71
16-23-jun	21:05:08	594	17.7	17.2	-0.5	33	16.70
16-23-jun	22:05:08	595	16.5	15.7	-0.8	33	16.71
16-23-jun	23:05:08	595	15.6	14.6	-1.1	33	16.71

BGI PQ200 Air Sampling System Downloaded 2016 01 jul 16:12:41

Job Details:

Job Name: 16Jul01C.JOB
Version: 5.62
Serial No: 964
Pump Time: 5617:01
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	598	594	596	mmHg
TA	31.3	13	21.9	°C
Q	---	---	16.7	Lpm

QCV 0.55 %
Max overheat 4 °C
occured 30-jun 15:33:18

Timer Information:

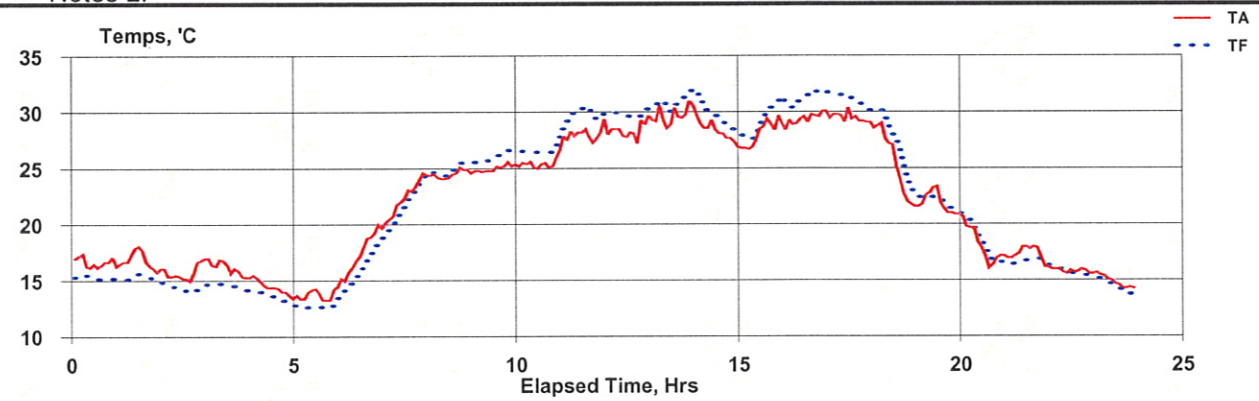
	Date dd-mmm	Time hh:mm:ss
Start:	16-29-jun	0:00:08
Stop:	16-30-jun	0:00:05

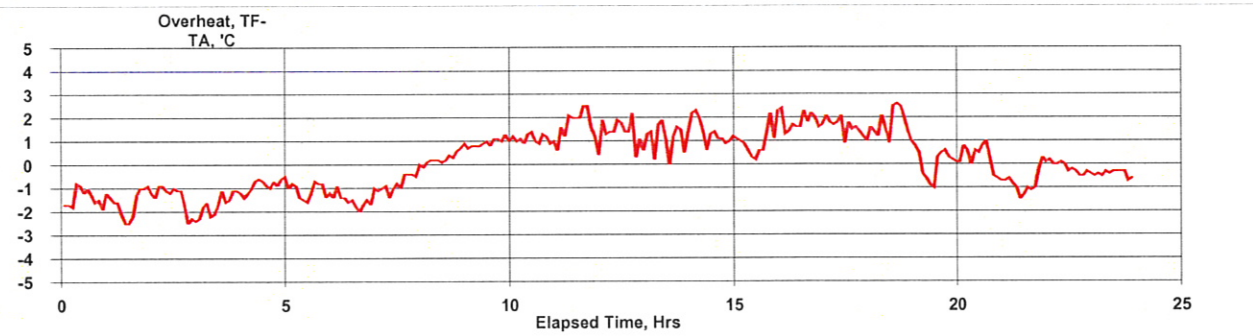
ET: 23:59

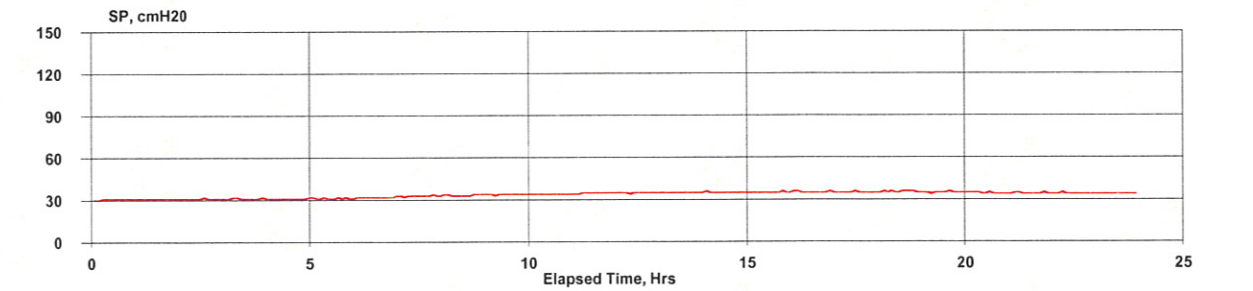
Mass Concentration Data:

Filter ID:	11	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-29-jun	0:05:08	597	16.7	15.3	-1.4	31	16.71
16-29-jun	1:05:08	597	16.8	15.2	-1.6	31	16.71
16-29-jun	2:05:08	597	15.8	14.3	-1.5	31	16.71
16-29-jun	3:05:08	596	16.1	14.5	-1.6	31	16.72
16-29-jun	4:05:08	597	14.4	13.6	-0.8	31	16.71
16-29-jun	5:05:08	597	13.8	12.7	-1.1	31	16.72
16-29-jun	6:05:08	597	17.6	16.1	-1.5	32	16.71
16-29-jun	7:05:08	597	22.5	21.8	-0.7	33	16.71
16-29-jun	8:05:08	597	24.5	24.8	0.3	34	16.70
16-29-jun	9:05:08	597	25.0	26.0	0.9	34	16.70
16-29-jun	10:05:08	597	25.5	26.6	1.1	34	16.70
16-29-jun	11:05:08	597	28.1	29.7	1.6	35	16.72
16-29-jun	12:05:08	597	28.4	29.8	1.4	35	16.70
16-29-jun	13:05:08	596	29.7	30.9	1.2	35	16.73
16-29-jun	14:05:08	595	28.3	29.7	1.4	35	16.71
16-29-jun	15:05:08	595	28.1	29.1	1.0	35	16.70
16-29-jun	16:05:08	595	29.4	31.2	1.8	35	16.71
16-29-jun	17:05:08	594	29.5	31.1	1.6	35	16.71
16-29-jun	18:05:08	595	25.5	27.2	1.7	36	16.71
16-29-jun	19:05:08	595	21.9	21.9	0.0	35	16.71
16-29-jun	20:05:08	596	18.1	18.3	0.2	34	16.71
16-29-jun	21:05:08	596	17.3	16.6	-0.7	34	16.72
16-29-jun	22:05:08	596	15.8	15.6	-0.2	34	16.70
16-29-jun	23:05:08	596	14.8	14.4	-0.4	34	16.71

Compliance Monitor 2366D

PM_{10} Sampler Summary

April 1, 2016 - June 30, 2016

Network: **Alton Coal Development**
Site: Coal Hollow
Sampler ID: Coal Hollow-D **AQS ID:**
Sampler Type: BGI FRM Single

Date	Filter ID	Concentration (µg/m3) LTP	Concentration (µg/m3) STP	Sample Period (hr:min)	Sample Volume (m3)	Std Volume (m3)	Mass (mg) Tare	Gross	Net	Flag	Comments
04/06/16	P2929005	**7.0**	**8.4**	23:59	24.0	19.9	374.089	374.258	0.169		
04/12/16	P2929226	**6.4**	**7.7**	23:59	24.0	19.9	364.393	364.547	0.154		
04/18/16	P2929231	**9.0**	**10.7**	23:59	24.0	20.1	371.365	371.582	0.217	HT	
04/24/16	P2929390	**5.1**	**6.2**	23:59	24.0	19.7	387.186	387.310	0.124		
04/30/16	P2929395	**1.5**	**1.9**	23:59	24.0	20.0	392.002	392.040	0.038	HT	
05/06/16	P2929400	**28.2**	**34.4**	23:59	24.0	19.7	395.729	396.409	0.680	HT	
05/12/16	P2929633	**59.9**	**73.3**	23:59	24.0	19.6	369.264	370.706	1.442		
05/18/16	P2929818	**Invalid - AG**	**Invalid - AG**	53:03	53.1	43.2	371.898	373.464	1.566	SP,CI,HT	
05/24/16	P2929629	**20.3**	**24.8**	23:59	24.0	19.7	366.491	366.980	0.489		
05/30/16	P2929638	**8.5**	**10.5**	23:59	24.0	19.5	375.664	375.870	0.206	XT,HT	
06/05/16	P2930156	**Invalid - AG**	**Invalid - AG**	38:25	38.5	30.3	373.362	374.717	1.355	SP,CI	
06/11/16	P2930162	**19.8**	**24.7**	23:59	24.0	19.3	369.721	370.197	0.476	HT	
06/17/16	P2930168	**58.4**	**72.8**	23:59	24.0	19.3	373.801	375.207	1.406	HT	
06/23/16	P2930505	**96.0**	**122.0**	23:59	24.0	18.9	367.137	369.444	2.307		
06/29/16	P2930510	**62.2**	**78.6**	23:59	24.0	19.0	371.981	373.477	1.496		Filter darker
05/31/16	P2930155		**Field Blank**				373.813	373.829	0.016		

# Valid	Recovery	Average	St. Dev.	Max	Min
13	**87%**	**36.6**	**37.8**	**122.0**	**1.9**

BGI PQ200 Air Sampling System Downloaded 2016 02 apr 12:08:19

Job Details:

Job Name:	16Apr02D.JOB	Job Code:	
Version:	5.62	Site Name:	2366D
Serial No:	2366	Station Code:	
Pump Time:	279:13	Operators:	KN
Flags:		User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
		User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	590	586	587	mmHg
TA	10	-5.8	1.5	°C
Q	---	---	16.71	Lpm

QCV	0.57	%
Max overheat	3	°C
occured 31-mar 15:44:00		

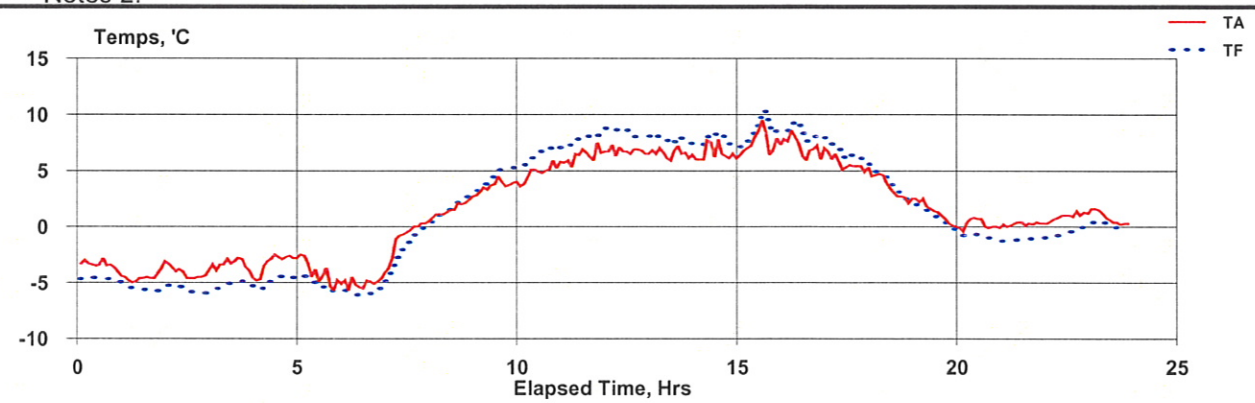
Timer Information:

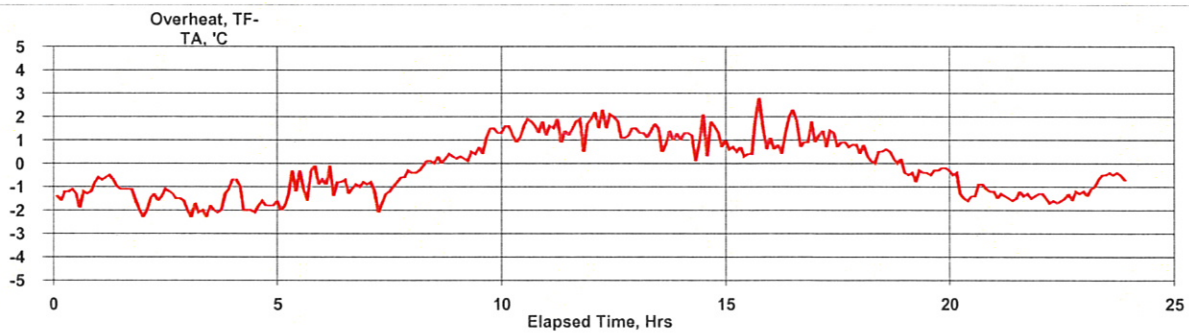
	Date dd-mmm	Time hh:mm:ss
Start:	16-31-mar	0:00:08
Stop:	16-01-apr	0:00:05
ET:	23:59	

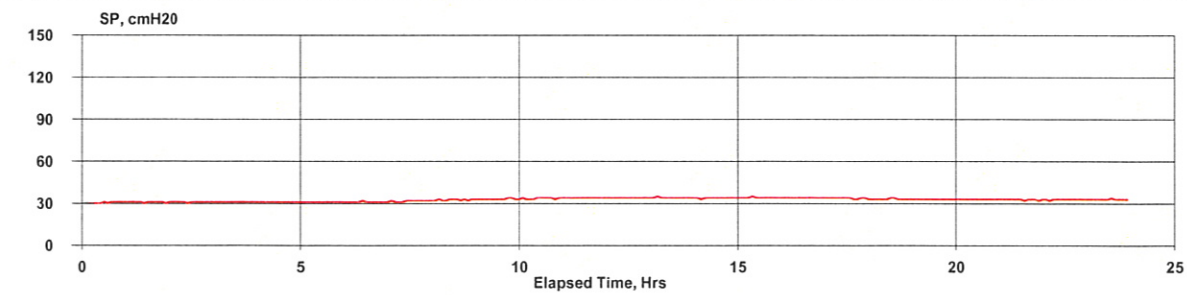
Mass Concentration Data:

Filter ID:	32	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.037	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-31-mar	0:05:08	588	-3.5	-4.7	-1.2	31	16.73
16-31-mar	1:05:08	588	-4.4	-5.6	-1.2	31	16.73
16-31-mar	2:05:08	588	-4.2	-5.7	-1.5	31	16.73
16-31-mar	3:05:08	587	-3.4	-5.2	-1.8	31	16.71
16-31-mar	4:05:08	587	-3.2	-4.9	-1.7	31	16.72
16-31-mar	5:05:08	587	-4.2	-5.2	-1.0	31	16.71
16-31-mar	6:05:08	587	-5.0	-5.9	-0.9	31	16.72
16-31-mar	7:05:08	587	-0.7	-1.7	-1.0	32	16.72
16-31-mar	8:05:08	587	1.6	1.7	0.1	33	16.72
16-31-mar	9:05:08	587	3.7	4.4	0.8	33	16.72
16-31-mar	10:05:08	587	4.9	6.4	1.5	34	16.71
16-31-mar	11:05:08	587	6.4	7.8	1.5	34	16.73
16-31-mar	12:05:08	587	6.7	8.4	1.7	34	16.71
16-31-mar	13:05:08	587	6.5	7.7	1.2	34	16.74
16-31-mar	14:05:08	587	6.6	7.7	1.1	34	16.72
16-31-mar	15:05:08	587	7.5	8.5	1.0	34	16.72
16-31-mar	16:05:08	587	7.1	8.3	1.2	34	16.71
16-31-mar	17:05:08	587	5.6	6.5	0.9	34	16.71
16-31-mar	18:05:08	587	3.4	3.7	0.3	33	16.73
16-31-mar	19:05:08	588	1.3	0.9	-0.4	33	16.71
16-31-mar	20:05:08	588	0.2	-0.9	-1.1	33	16.72
16-31-mar	21:05:08	589	0.3	-1.2	-1.4	33	16.71
16-31-mar	22:05:08	589	0.9	-0.5	-1.5	33	16.73
16-31-mar	23:05:08	589	0.8	0.1	-0.7	33	16.71

BGI PQ200 Air Sampling System Downloaded 2016 07 apr 14:43:39

Job Details:

Job Name:	16Apr07D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	303:12
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	598	594	596	mmHg
TA	20.5	-4.5	9.3	°C
Q	---	---	16.7	Lpm

QCV	0.52	%
Max overheat	2.5	°C
occured	06-apr 13:49:20	

Timer Information:

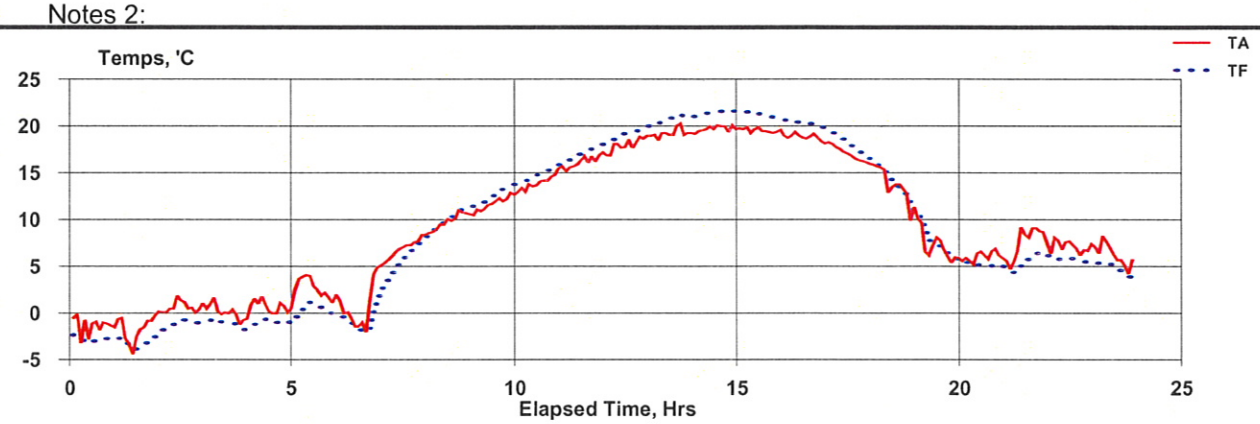
	Date dd-mmm	Time hh:mm:ss
Start:	16-06-apr	0:00:08
Stop:	16-07-apr	0:00:05
ET:	23:59	

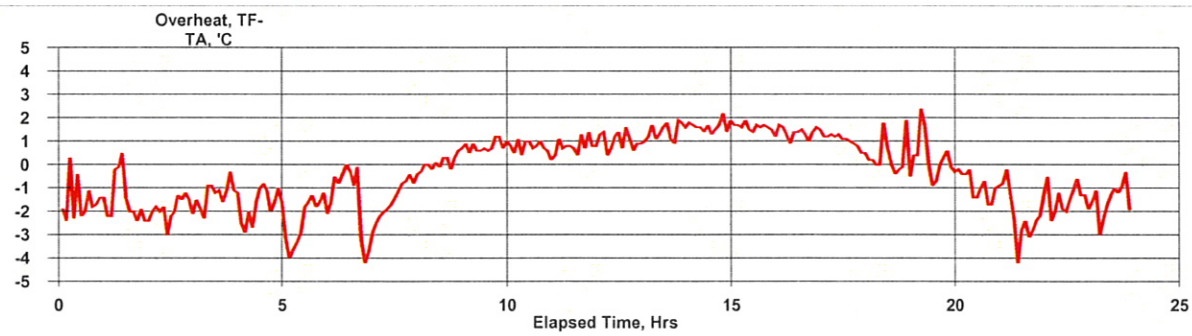
Mass Concentration Data:

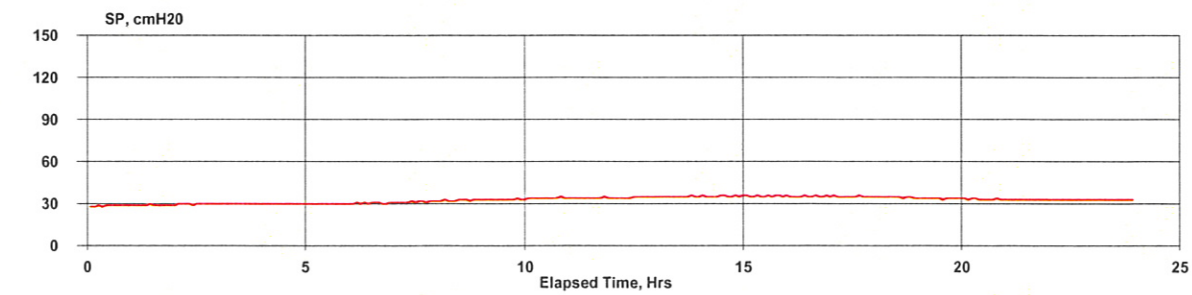
Filter ID:	37	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-06-apr	0:05:08	598	-1.3	-2.9	-1.5	29	16.71
16-06-apr	1:05:08	597	-1.6	-3.1	-1.6	29	16.71
16-06-apr	2:05:08	597	0.7	-1.2	-1.9	30	16.71
16-06-apr	3:05:08	597	0.1	-1.2	-1.3	30	16.71
16-06-apr	4:05:08	597	0.7	-1.0	-1.7	30	16.70
16-06-apr	5:05:08	597	2.7	0.4	-2.4	30	16.71
16-06-apr	6:05:08	598	0.9	-0.7	-1.6	31	16.73
16-06-apr	7:05:08	598	7.0	5.7	-1.3	32	16.71
16-06-apr	8:05:08	597	9.9	10.0	0.1	33	16.71
16-06-apr	9:05:08	597	11.8	12.6	0.8	33	16.71
16-06-apr	10:05:08	597	14.0	14.7	0.7	34	16.71
16-06-apr	11:05:08	597	16.2	17.0	0.8	34	16.71
16-06-apr	12:05:08	596	18.1	19.1	1.0	35	16.71
16-06-apr	13:05:08	596	19.3	20.7	1.4	35	16.71
16-06-apr	14:05:08	595	19.8	21.4	1.7	35	16.71
16-06-apr	15:05:08	595	19.6	21.2	1.6	36	16.70
16-06-apr	16:05:08	594	18.9	20.2	1.4	35	16.70
16-06-apr	17:05:08	594	17.1	18.1	1.0	35	16.71
16-06-apr	18:05:08	594	13.7	14.0	0.3	35	16.71
16-06-apr	19:05:08	595	7.2	7.5	0.3	34	16.71
16-06-apr	20:05:08	595	6.1	5.2	-0.9	33	16.72
16-06-apr	21:05:08	595	7.6	5.5	-2.2	33	16.70
16-06-apr	22:05:08	595	7.1	5.7	-1.5	33	16.71
16-06-apr	23:05:08	595	6.3	4.8	-1.5	33	16.70

BGI PQ200 Air Sampling System Downloaded 2016 13 apr 13:58:17

Job Details:

Job Name:	16Apr13D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	327:11
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	593	590	591	mmHg
TA	17.4	0.2	7	°C
Q	---	---	16.7	Lpm

QCV	0.54 %
Max overheat	4.3 °C
occured	12-apr 13:11:27

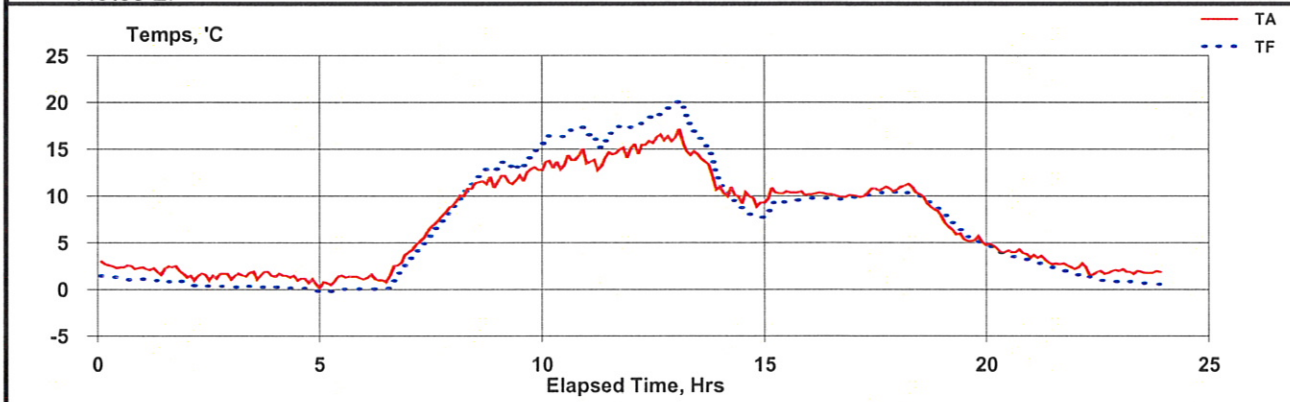
Timer Information:

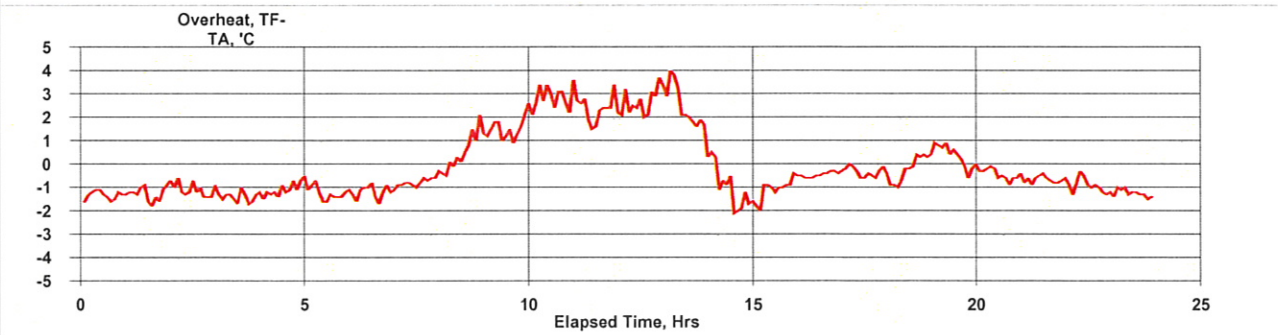
	Date dd-mmm	Time hh:mm:ss
Start:	16-12-apr	0:00:08
Stop:	16-13-apr	0:00:05
ET:	23:59	

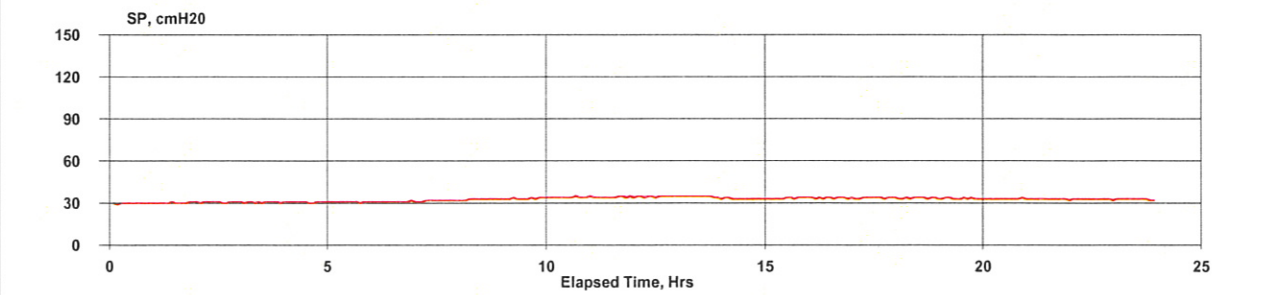
Mass Concentration Data:

Filter ID:	7	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-12-apr	0:05:08	592	2.5	1.2	-1.3	30	16.71
16-12-apr	1:05:08	592	2.1	0.8	-1.2	30	16.71
16-12-apr	2:05:08	592	1.4	0.3	-1.1	31	16.71
16-12-apr	3:05:08	592	1.6	0.2	-1.4	31	16.71
16-12-apr	4:05:08	591	1.1	0.1	-1.1	31	16.71
16-12-apr	5:05:08	591	1.1	-0.1	-1.2	31	16.70
16-12-apr	6:05:08	592	2.0	0.8	-1.2	31	16.71
16-12-apr	7:05:08	592	6.7	6.0	-0.7	32	16.71
16-12-apr	8:05:08	592	11.0	11.5	0.6	33	16.70
16-12-apr	9:05:08	592	12.2	13.8	1.5	33	16.71
16-12-apr	10:05:08	592	13.8	16.7	2.9	34	16.72
16-12-apr	11:05:08	591	14.2	16.6	2.4	34	16.71
16-12-apr	12:05:08	591	15.9	18.6	2.7	35	16.71
16-12-apr	13:05:08	591	13.9	16.2	2.3	35	16.71
16-12-apr	14:05:08	592	9.9	8.8	-1.1	33	16.71
16-12-apr	15:05:08	591	10.3	9.3	-1.0	34	16.71
16-12-apr	16:05:08	591	10.1	9.7	-0.5	34	16.71
16-12-apr	17:05:08	591	10.5	10.2	-0.3	34	16.71
16-12-apr	18:05:08	591	9.8	9.6	-0.2	34	16.71
16-12-apr	19:05:08	592	5.7	6.1	0.3	33	16.71
16-12-apr	20:05:08	592	4.1	3.7	-0.4	33	16.71
16-12-apr	21:05:08	592	2.9	2.3	-0.7	33	16.71
16-12-apr	22:05:08	592	2.0	1.1	-0.9	33	16.71
16-12-apr	23:05:08	592	1.9	0.7	-1.2	33	16.69

BGI PQ200 Air Sampling System Downloaded 2016 20 apr 10:07:27

Job Details:

Job Name:	16Apr20D.JOB	Job Code:	
Version:	5.62	Site Name:	2366D
Serial No:	2366	Station Code:	
Pump Time:	351:10	Operators:	KN
Flags:		User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
		User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	593	591	592	mmHg
TA	14.8	-4.5	4.6	°C
Q	---	---	16.7	Lpm
QCV			0.55	%
Max overheat			4	°C

occured 18-apr 16:03:21

Timer Information:

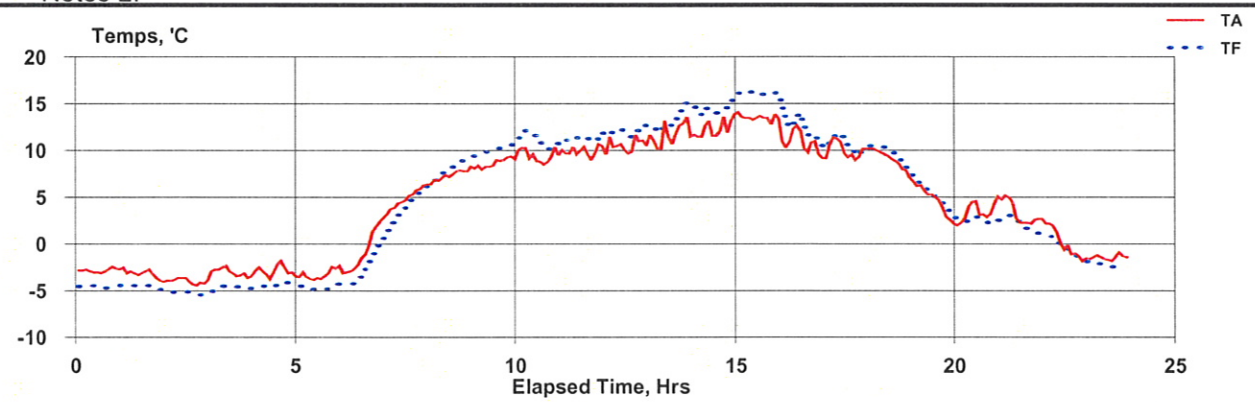
	Date dd-mmm	Time hh:mm:ss
Start:	16-18-apr	0:00:08
Stop:	16-19-apr	0:00:05
ET:	23:59	

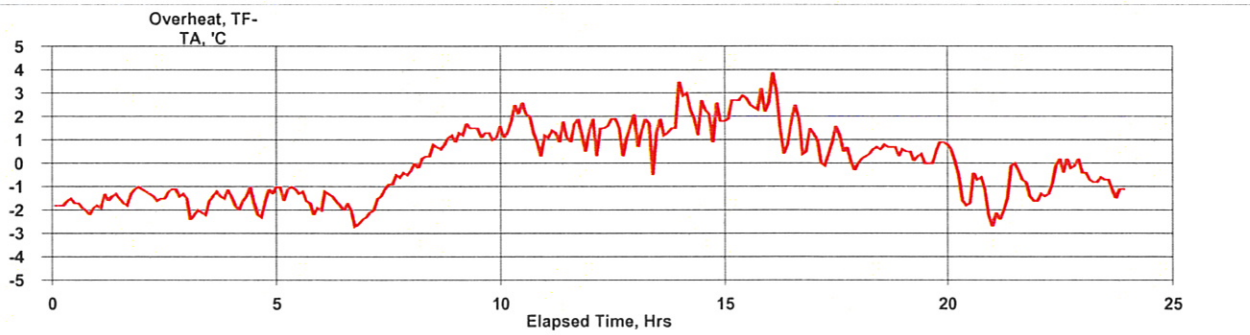
Mass Concentration Data:

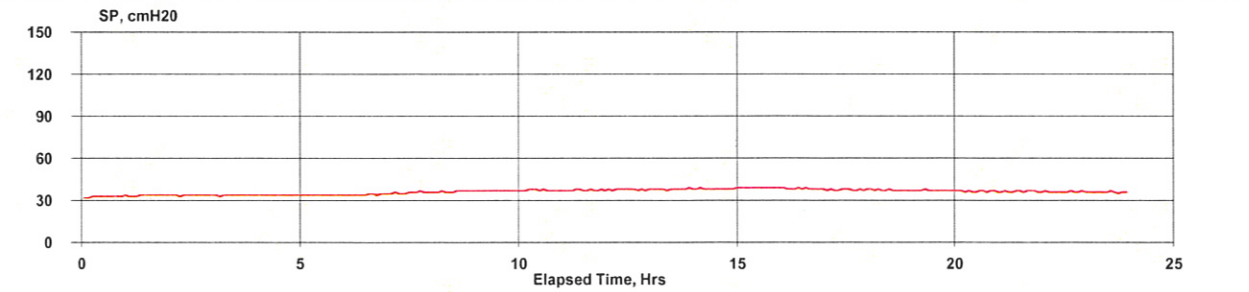
Filter ID:	39	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-18-apr	0:05:08	593	-2.8	-4.6	-1.8	33	16.71
16-18-apr	1:05:08	593	-3.2	-4.6	-1.4	34	16.71
16-18-apr	2:05:08	593	-3.9	-5.3	-1.3	34	16.71
16-18-apr	3:05:08	593	-3.0	-4.7	-1.7	34	16.71
16-18-apr	4:05:08	593	-2.9	-4.4	-1.6	34	16.71
16-18-apr	5:05:08	593	-3.2	-4.7	-1.5	34	16.71
16-18-apr	6:05:08	593	-0.7	-2.6	-1.9	34	16.71
16-18-apr	7:05:08	593	5.0	3.9	-1.0	36	16.71
16-18-apr	8:05:08	593	7.4	8.0	0.6	37	16.72
16-18-apr	9:05:08	593	8.7	10.0	1.3	37	16.70
16-18-apr	10:05:08	593	9.5	11.1	1.6	37	16.71
16-18-apr	11:05:08	593	10.0	11.2	1.3	37	16.71
16-18-apr	12:05:08	592	10.6	12.0	1.4	38	16.71
16-18-apr	13:05:08	592	11.8	13.2	1.5	38	16.71
16-18-apr	14:05:08	592	12.4	14.5	2.1	38	16.71
16-18-apr	15:05:08	592	13.5	16.1	2.6	39	16.72
16-18-apr	16:05:08	592	10.8	12.5	1.6	38	16.72
16-18-apr	17:05:08	592	10.1	10.6	0.5	38	16.71
16-18-apr	18:05:08	592	9.1	9.6	0.5	37	16.71
16-18-apr	19:05:08	592	4.7	5.1	0.4	37	16.71
16-18-apr	20:05:08	592	3.5	2.5	-1.1	37	16.72
16-18-apr	21:05:08	593	3.3	2.1	-1.2	37	16.71
16-18-apr	22:05:08	593	0.0	-0.4	-0.5	36	16.71
16-18-apr	23:05:08	593	-1.4	-2.3	-0.9	36	16.70

BGI PQ200 Air Sampling System Downloaded 2016 25 apr 10:58:35

Job Details:

Job Name: 16Apr25D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 375:09
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	588	583	586	mmHg
TA	17.4	-3.8	7.6	°C
Q	---	---	16.7	Lpm

QCV 0.55 %
Max overheat 4.6 °C
occured 24-apr 14:14:53

Timer Information:

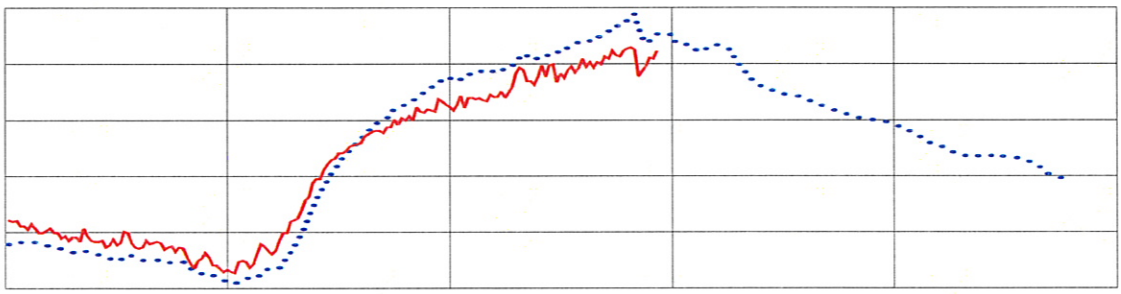
	Date dd-mmm	Time hh:mm:ss
Start:	16-24-apr	0:00:08
Stop:	16-25-apr	0:00:05

ET: 23:59

Mass Concentration Data:

Filter ID:	19	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:



Overheat, TF-

16-24-apr	0:05:08	588	0.5	-1.0	-1.6	38	16.71
16-24-apr	1:05:08	588	-0.4	-1.7	-1.3	39	16.71
16-24-apr	2:05:08	588	-0.8	-2.2	-1.4	39	16.71
16-24-apr	3:05:08	588	-1.2	-2.6	-1.4	39	16.71
16-24-apr	4:05:08	588	-2.7	-3.8	-1.0	39	16.71
16-24-apr	5:05:08	588	-2.4	-4.0	-1.6	39	16.71
16-24-apr	6:05:08	588	1.5	-0.7	-2.3	40	16.71
16-24-apr	7:05:08	588	6.9	6.1	-0.7	41	16.71
16-24-apr	8:05:08	588	9.3	10.2	0.8	42	16.71
16-24-apr	9:05:08	587	11.0	12.7	1.7	42	16.70
16-24-apr	10:05:08	587	11.8	14.0	2.2	43	16.72
16-24-apr	11:05:08	587	13.3	15.1	1.8	43	16.71
16-24-apr	12:05:08	586	14.5	16.3	1.8	44	16.71
16-24-apr	13:05:08	586	15.5	17.8	2.3	44	16.70
16-24-apr	14:05:08	585	15.4	17.8	2.4	44	16.72
16-24-apr	15:05:08	585	14.8	16.5	1.8	44	16.71
16-24-apr	16:05:08	585	13.5	14.9	1.4	43	16.70
16-24-apr	17:05:08	585	12.0	12.3	0.3	43	16.70
16-24-apr	18:05:08	585	11.0	11.0	0.0	43	16.72
16-24-apr	19:05:08	585	10.2	10.0	-0.3	43	16.71
16-24-apr	20:05:08	585	8.4	8.6	0.2	43	16.70
16-24-apr	21:05:08	585	7.1	7.0	-0.2	42	16.71
16-24-apr	22:05:08	584	7.0	6.6	-0.3	42	16.71
16-24-apr	23:05:08	583	5.6	5.3	-0.3	42	16.71

BGI PQ200 Air Sampling System Downloaded 2016 02 may 10:17:43

Job Details:

Job Name:	16May02D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	399:08
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	587	584	585	mmHg
TA	9.2	-0.4	3.1	°C
Q	---	---	16.7	Lpm
QCV			0.55	%
Max overheat			3.2	°C

occured 30-apr 16:01:11

Timer Information:

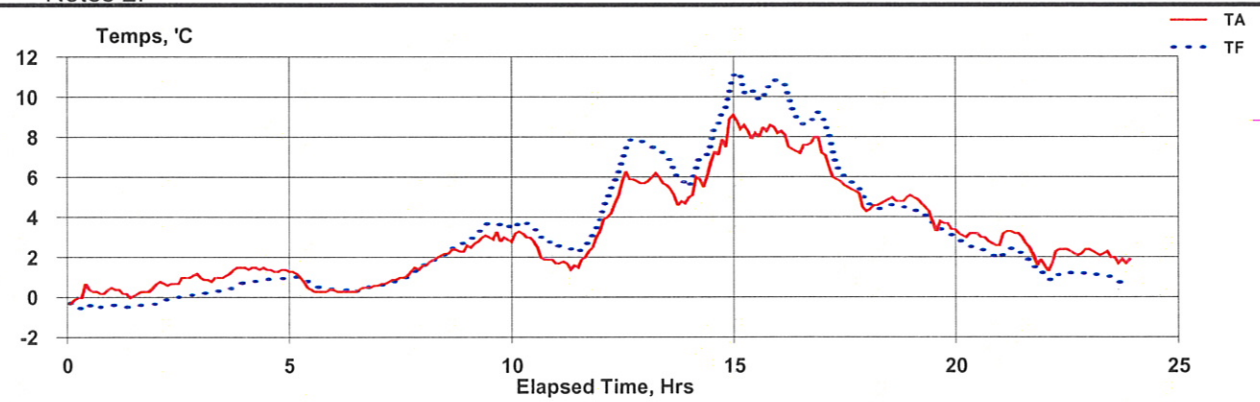
	Date dd-mmm	Time hh:mm:ss
Start:	16-30-apr	0:00:08
Stop:	16-01-may	0:00:04
ET:	23:59	

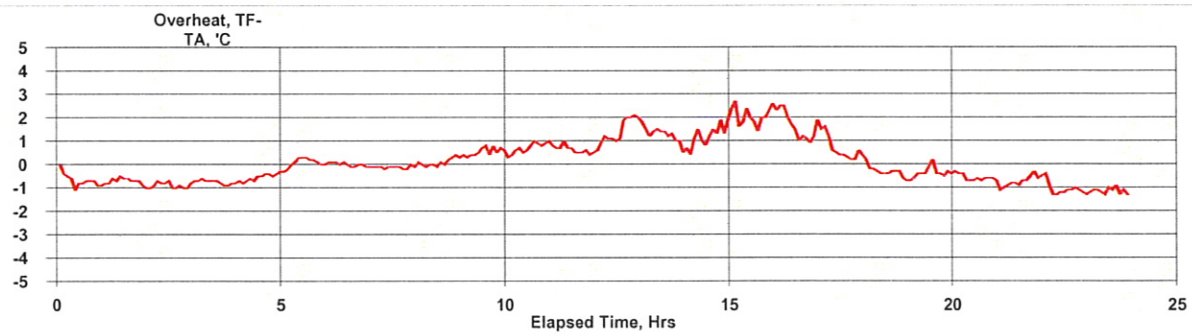
Mass Concentration Data:

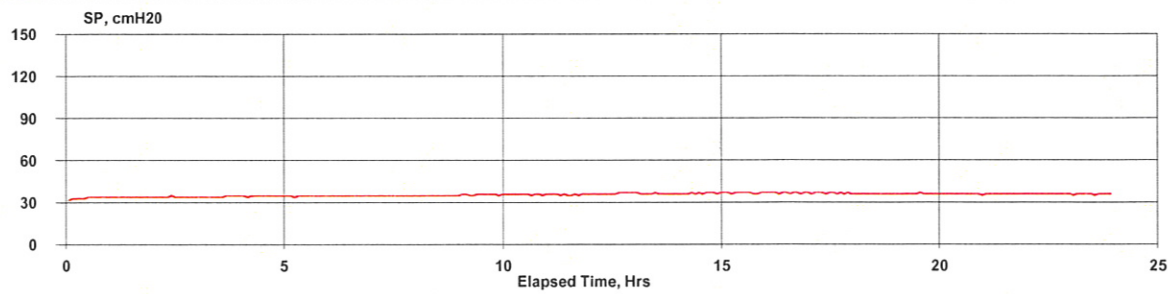
Filter ID:	24	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.035	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-30-apr	0:05:08	585	0.2	-0.5	-0.7	34	16.71
16-30-apr	1:05:08	585	0.3	-0.4	-0.7	34	16.70
16-30-apr	2:05:08	585	0.9	0.0	-0.9	34	16.71
16-30-apr	3:05:08	585	1.2	0.4	-0.8	34	16.70
16-30-apr	4:05:08	585	1.4	0.9	-0.5	35	16.71
16-30-apr	5:05:08	585	0.6	0.7	0.1	35	16.71
16-30-apr	6:05:08	585	0.4	0.4	0.0	35	16.71
16-30-apr	7:05:08	585	1.1	1.0	-0.1	35	16.72
16-30-apr	8:05:08	585	2.2	2.3	0.1	35	16.71
16-30-apr	9:05:08	586	2.9	3.4	0.5	36	16.69
16-30-apr	10:05:08	586	2.5	3.2	0.7	36	16.75
16-30-apr	11:05:08	586	2.1	2.7	0.6	36	16.71
16-30-apr	12:05:08	585	5.3	6.7	1.4	36	16.72
16-30-apr	13:05:08	585	5.4	6.7	1.3	36	16.68
16-30-apr	14:05:08	585	6.9	8.2	1.2	37	16.69
16-30-apr	15:05:08	585	8.4	10.4	2.1	37	16.71
16-30-apr	16:05:08	585	7.7	9.3	1.7	37	16.70
16-30-apr	17:05:08	586	5.6	6.3	0.7	37	16.73
16-30-apr	18:05:08	586	4.8	4.5	-0.3	36	16.71
16-30-apr	19:05:08	586	4.0	3.7	-0.4	36	16.71
16-30-apr	20:05:08	587	3.0	2.4	-0.6	36	16.70
16-30-apr	21:05:08	587	2.6	1.9	-0.7	36	16.71
16-30-apr	22:05:08	587	2.2	1.1	-1.1	36	16.71
16-30-apr	23:05:08	586	2.0	0.9	-1.1	36	16.72

BGI PQ200 Air Sampling System

Downloaded 2016 09 may 15:48:29

Job Details:

Job Name:	16May09D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	423:07
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy
User2:	yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy

	Max	Min	Avg	Units
BP	587	584	585	mmHg
TA	15.9	-1.6	6.7	°C
Q	---	---	16.7	Lpm

QCV	0.57 %
Max overheat	4.5 °C
occured	07-may 12:52:13

Timer Information:

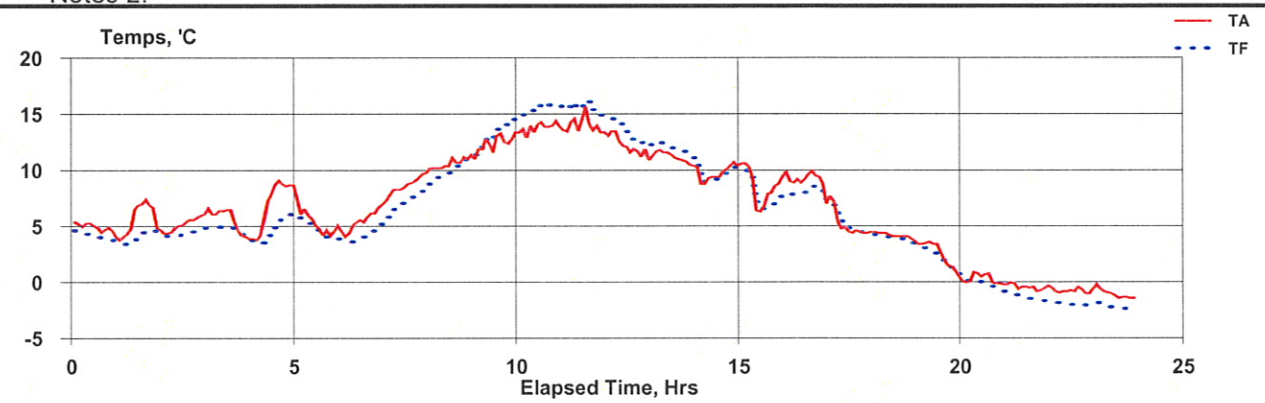
	Date dd-mmm	Time hh:mm:ss
Start:	16-06-may	0:00:08
Stop:	16-07-may	0:00:05
ET:	23:59	

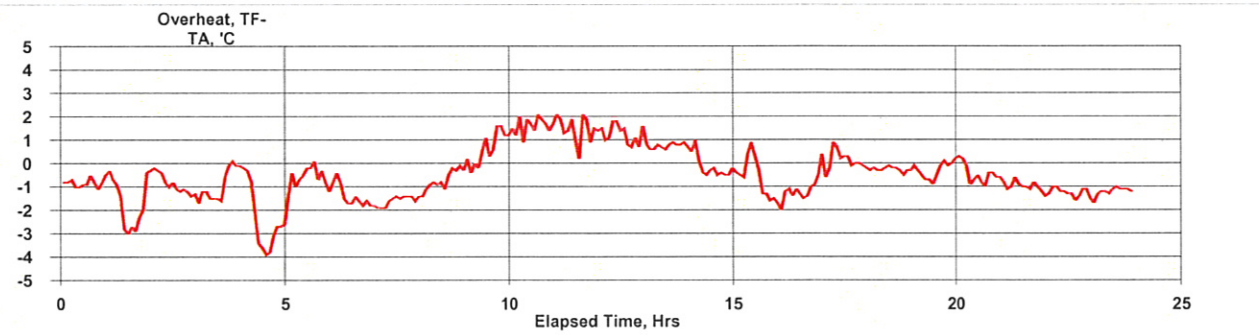
Mass Concentration Data:

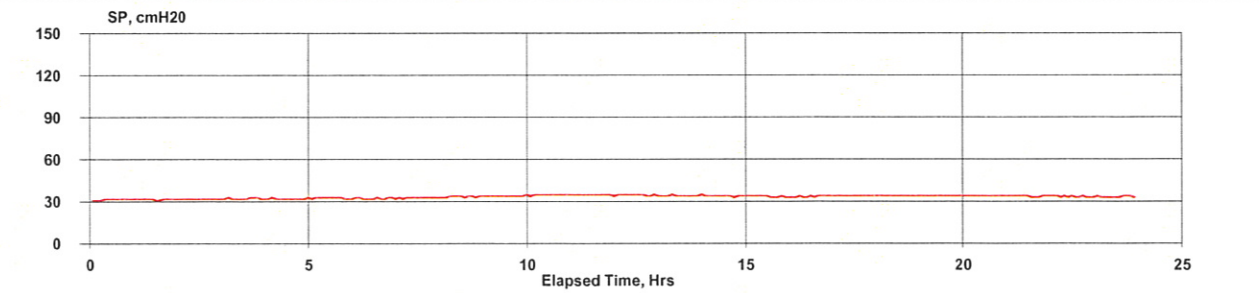
Filter ID:	29	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-06-may	0:05:08	586	4.9	4.1	-0.8	32	16.71
16-06-may	1:05:08	586	5.7	4.0	-1.6	32	16.71
16-06-may	2:05:08	586	5.2	4.3	-0.9	32	16.70
16-06-may	3:05:08	586	5.6	4.7	-0.9	32	16.71
16-06-may	4:05:08	586	7.1	4.7	-2.4	32	16.71
16-06-may	5:05:08	586	5.4	4.8	-0.6	33	16.72
16-06-may	6:05:08	586	5.6	4.1	-1.4	32	16.71
16-06-may	7:05:08	586	8.7	7.1	-1.6	33	16.71
16-06-may	8:05:08	586	10.6	9.9	-0.7	34	16.71
16-06-may	9:05:08	586	12.4	13.1	0.6	34	16.71
16-06-may	10:05:08	585	13.8	15.4	1.6	35	16.71
16-06-may	11:05:08	585	14.0	15.5	1.5	35	16.69
16-06-may	12:05:08	585	12.2	13.4	1.3	35	16.72
16-06-may	13:05:08	585	11.2	11.9	0.7	34	16.71
16-06-may	14:05:08	585	9.7	9.6	-0.2	34	16.71
16-06-may	15:05:08	585	8.6	7.9	-0.6	34	16.71
16-06-may	16:05:08	584	9.1	8.0	-1.1	34	16.71
16-06-may	17:05:08	586	5.1	5.2	0.1	34	16.72
16-06-may	18:05:08	586	4.2	3.9	-0.3	34	16.71
16-06-may	19:05:08	586	2.5	2.2	-0.3	34	16.71
16-06-may	20:05:08	586	0.3	-0.2	-0.5	34	16.70
16-06-may	21:05:08	586	-0.4	-1.4	-1.0	34	16.71
16-06-may	22:05:08	586	-0.7	-2.0	-1.3	33	16.71
16-06-may	23:05:08	586	-1.0	-2.3	-1.2	33	16.72

BGI PQ200 Air Sampling System Downloaded 2016 13 may 08:00:43

Job Details:

Job Name:	16May13D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	447:06
Flags:	

Job Code:	
Site Name:	2366D
Station Code:	
Operators:	KN
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	596	593	594	mmHg
TA	22.7	0.8	12	°C
Q	---	---	16.7	Lpm

QCV	0.56 %
Max overheat	3.3 °C
occured	12-may 14:34:41

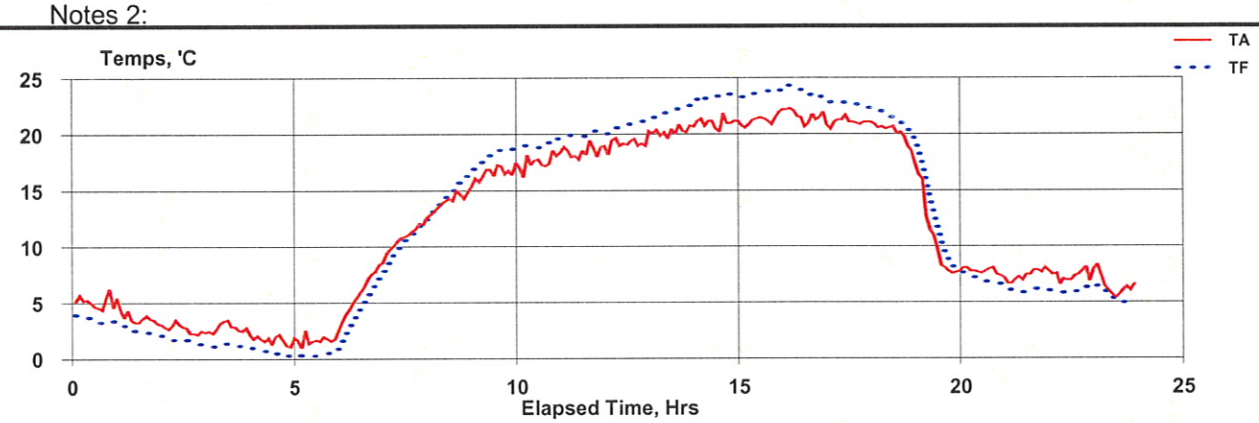
Timer Information:

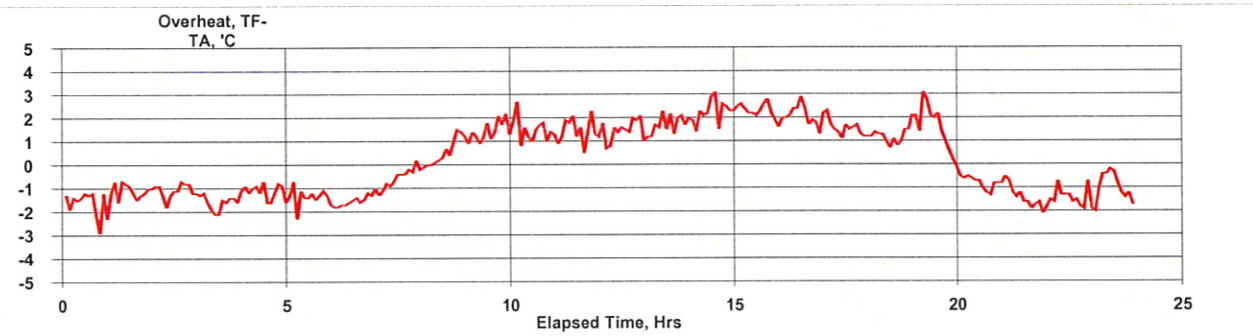
	Date dd-mmm	Time hh:mm:ss
Start:	16-12-may	0:00:08
Stop:	16-13-may	0:00:05
ET:	23:59	

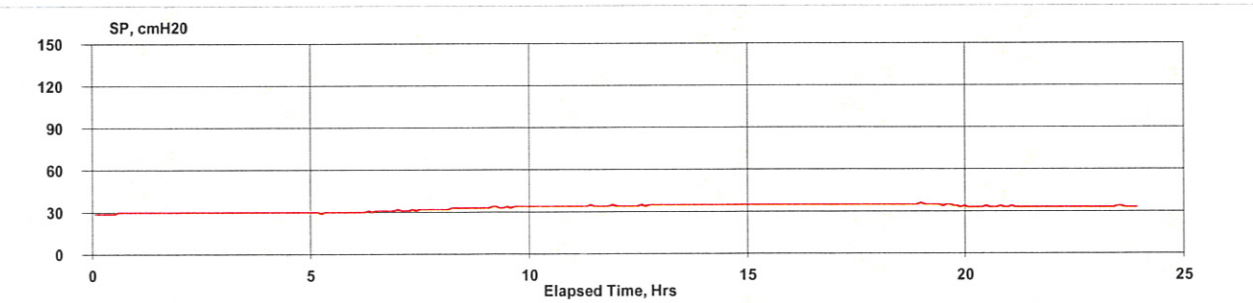
Mass Concentration Data:

Filter ID:	34	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-12-may	0:05:08	594	5.2	3.5	-1.6	30	16.71
16-12-may	1:05:08	594	3.6	2.5	-1.1	30	16.71
16-12-may	2:05:08	594	2.7	1.6	-1.1	30	16.71
16-12-may	3:05:08	595	2.8	1.2	-1.6	30	16.72
16-12-may	4:05:08	595	1.7	0.6	-1.1	30	16.71
16-12-may	5:05:08	595	1.8	0.4	-1.4	30	16.72
16-12-may	6:05:08	595	6.2	4.7	-1.5	31	16.72
16-12-may	7:05:08	595	11.0	10.5	-0.5	32	16.70
16-12-may	8:05:08	595	14.2	14.8	0.6	33	16.70
16-12-may	9:05:08	595	16.7	18.1	1.4	34	16.71
16-12-may	10:05:08	595	17.6	19.1	1.5	34	16.70
16-12-may	11:05:08	595	18.5	20.0	1.5	34	16.71
16-12-may	12:05:08	594	19.3	20.8	1.5	34	16.72
16-12-may	13:05:08	594	20.3	22.0	1.7	35	16.71
16-12-may	14:05:08	594	21.1	23.3	2.3	35	16.70
16-12-may	15:05:08	593	21.3	23.6	2.3	35	16.71
16-12-may	16:05:08	593	21.6	23.7	2.1	35	16.71
16-12-may	17:05:08	593	21.1	22.6	1.5	35	16.71
16-12-may	18:05:08	593	19.9	21.2	1.2	35	16.71
16-12-may	19:05:08	593	10.4	12.0	1.6	35	16.71
16-12-may	20:05:08	594	7.8	7.0	-0.8	33	16.71
16-12-may	21:05:08	594	7.4	6.0	-1.4	33	16.71
16-12-may	22:05:08	594	7.4	6.0	-1.4	33	16.71
16-12-may	23:05:08	594	6.4	5.4	-1.0	33	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 20 may 05:07:37

Job Details:

Job Name:	16May20D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	500:09
Flags:	

Job Code:	
Site Name:	2366D
Station Code:	
Operators:	KN
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	591	584	588	mmHg
TA	21.3	1.7	10.9	°C
Q	---	---	16.7	Lpm

QCV	0.86 %
Max overheat	3.7 °C
occured	19-may 15:19:17

Timer Information:

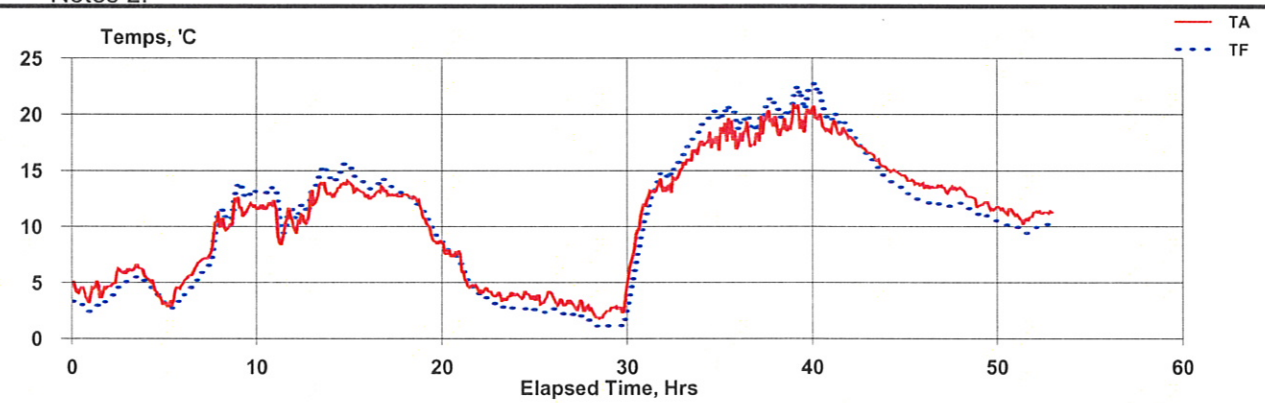
	Date dd-mmm	Time hh:mm:ss
Start:	16-18-may	0:00:08
Stop:	16-20-may	5:03:14
ET:	53:03:00	

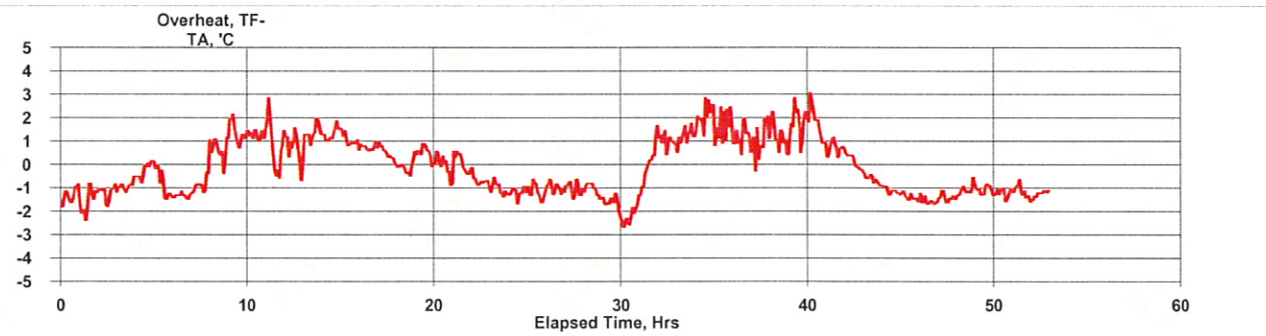
Mass Concentration Data:

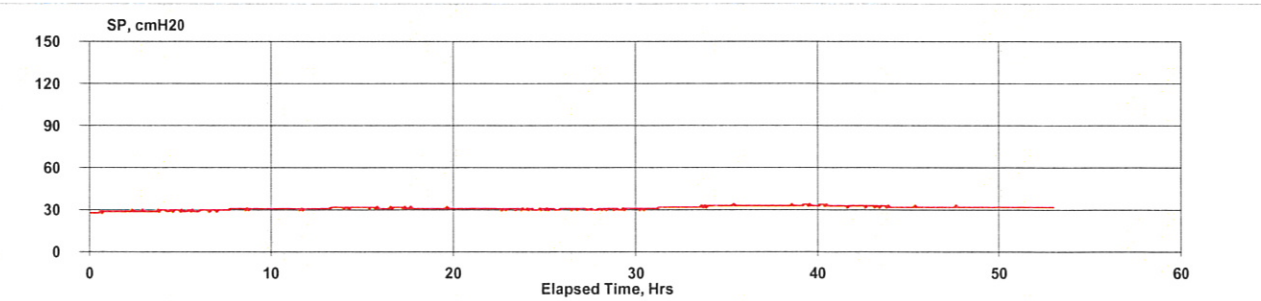
Filter ID:	7	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	53.14	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-18-may	0:05:08	591	4.2	2.9	-1.3	28	16.71
16-18-may	1:05:08	591	4.5	3.0	-1.5	29	16.71
16-18-may	2:05:08	591	5.7	4.5	-1.2	29	16.72
16-18-may	3:05:08	590	6.2	5.3	-0.9	29	16.71
16-18-may	4:05:08	591	4.3	4.1	-0.2	30	16.70
16-18-may	5:05:08	591	3.9	3.0	-0.8	29	16.71
16-18-may	6:05:08	591	6.0	4.7	-1.3	30	16.71
16-18-may	7:05:08	591	8.6	7.9	-0.7	30	16.71
16-18-may	8:05:08	591	10.9	11.5	0.6	31	16.71
16-18-may	9:05:08	591	11.6	13.0	1.4	31	16.71
16-18-may	10:05:08	591	11.9	13.2	1.3	31	16.70
16-18-may	11:05:08	591	10.0	10.9	0.8	31	16.71
16-18-may	12:05:08	591	10.9	11.6	0.7	31	16.70
16-18-may	13:05:08	590	13.1	14.4	1.4	32	16.71
16-18-may	14:05:08	590	13.5	14.8	1.3	32	16.72
16-18-may	15:05:08	590	13.2	14.2	1.0	32	16.71
16-18-may	16:05:08	590	13.0	13.8	0.8	31	16.71
16-18-may	17:05:08	590	12.8	13.3	0.5	31	16.71
16-18-may	18:05:08	590	12.3	12.2	-0.1	31	16.72
16-18-may	19:05:08	590	9.3	9.8	0.5	31	16.71
16-18-may	20:05:08	590	7.7	7.7	-0.1	31	16.71
16-18-may	21:05:08	591	5.0	5.1	0.1	31	16.70
16-18-may	22:05:08	591	4.1	3.4	-0.7	31	16.70
16-18-may	23:05:08	591	3.8	2.8	-1.0	31	16.71
16-19-may	0:05:08	591	3.9	2.7	-1.2	31	16.72
16-19-may	1:05:08	590	3.7	2.5	-1.2	31	16.71
16-19-may	2:05:08	590	3.2	2.3	-1.0	31	16.71
16-19-may	3:05:08	590	2.9	1.9	-1.0	31	16.71
16-19-may	4:05:08	590	2.2	1.1	-1.1	31	16.71
16-19-may	5:05:08	590	2.9	1.3	-1.6	31	16.71
16-19-may	6:05:08	590	9.2	7.0	-2.2	31	16.71
16-19-may	7:05:08	589	13.3	13.3	0.0	32	16.70
16-19-may	8:05:08	589	14.1	15.1	1.0	32	16.71
16-19-may	9:05:08	589	16.4	17.6	1.2	32	16.71
16-19-may	10:05:08	588	17.6	19.7	2.1	33	16.71
16-19-may	11:05:08	588	18.4	20.0	1.7	33	16.71
16-19-may	12:05:08	587	18.0	19.1	1.2	33	16.71
16-19-may	13:05:08	587	19.3	20.3	1.1	33	16.71
16-19-may	14:05:08	586	19.0	20.2	1.2	33	16.70
16-19-may	15:05:08	586	19.9	21.7	1.8	33	16.72
16-19-may	16:05:08	586	19.3	21.0	1.8	33	16.72
16-19-may	17:05:08	585	18.6	19.3	0.7	33	16.72
16-19-may	18:05:08	585	17.3	17.4	0.1	33	16.71
16-19-may	19:05:08	585	15.9	15.3	-0.6	33	16.71
16-19-may	20:05:08	585	14.9	13.8	-1.1	32	16.71
16-19-may	21:05:08	585	14.0	12.6	-1.4	32	16.70
16-19-may	22:05:08	585	13.6	12.0	-1.6	32	16.69
16-19-may	23:05:08	585	13.4	12.0	-1.4	32	16.73
16-20-may	0:05:08	585	12.7	11.6	-1.1	32	16.71
16-20-may	1:05:08	585	11.9	10.8	-1.1	32	16.72
16-20-may	2:05:08	585	11.4	10.2	-1.2	32	16.71
16-20-may	3:05:08	585	10.8	9.6	-1.2	32	16.71
16-20-may	4:05:08	584	11.3	10.1	-1.3	32	16.71

BGI PQ200 Air Sampling System Downloaded 2016 25 may 10:30:12

Job Details:

Job Name:	16May25D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	524:08
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	589	585	586	mmHg
TA	16.6	-1.6	7.8	°C
Q	---	---	16.7	Lpm

QCV	0.55 %
Max overheat	3 °C
occured	24-may 15:39:33

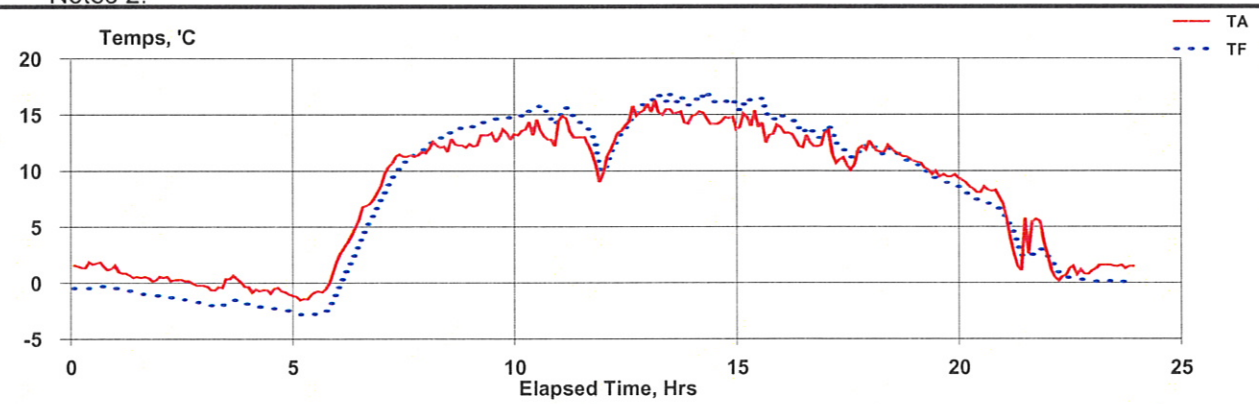
Timer Information:

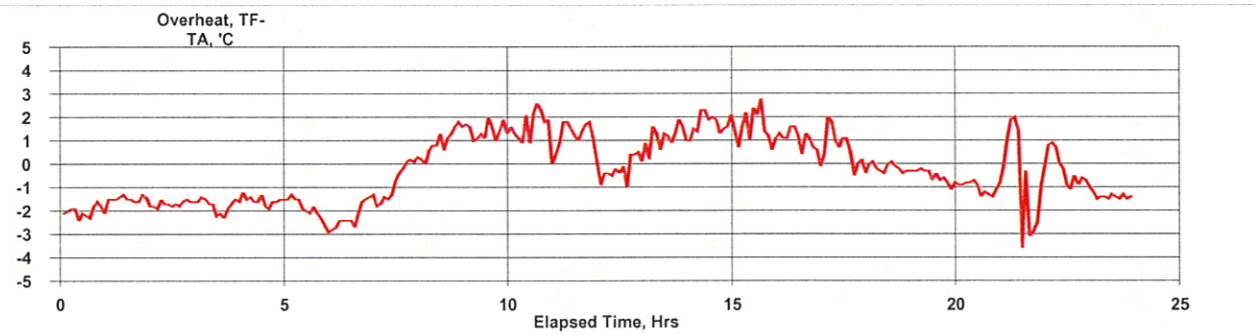
	Date dd-mmm	Time hh:mm:ss
Start:	16-24-may	0:00:08
Stop:	16-25-may	0:00:05
ET:	23:59	

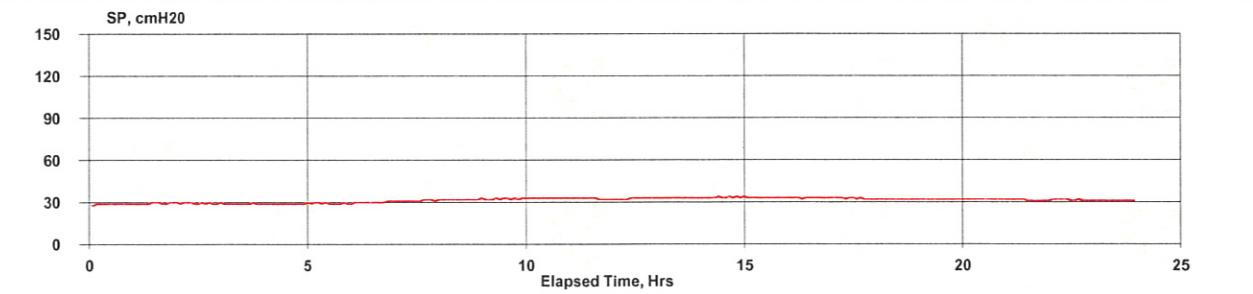
Mass Concentration Data:

Filter ID:	12	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.039	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-24-may	0:05:08	586	1.6	-0.5	-2.0	29	16.71
16-24-may	1:05:08	586	0.6	-0.9	-1.5	30	16.71
16-24-may	2:05:08	586	0.2	-1.5	-1.7	30	16.72
16-24-may	3:05:08	586	-0.1	-1.8	-1.8	29	16.72
16-24-may	4:05:08	586	-0.7	-2.3	-1.5	29	16.72
16-24-may	5:05:08	586	-0.5	-2.5	-2.0	29	16.72
16-24-may	6:05:08	586	5.8	3.7	-2.1	30	16.72
16-24-may	7:05:08	586	11.1	10.5	-0.7	31	16.71
16-24-may	8:05:08	587	12.3	13.3	1.0	32	16.71
16-24-may	9:05:08	586	13.0	14.4	1.4	33	16.70
16-24-may	10:05:08	586	13.5	15.0	1.6	33	16.71
16-24-may	11:05:08	587	12.4	13.6	1.2	33	16.71
16-24-may	12:05:08	587	14.1	13.8	-0.2	33	16.72
16-24-may	13:05:08	586	15.1	16.3	1.2	33	16.71
16-24-may	14:05:08	586	14.6	16.3	1.7	33	16.70
16-24-may	15:05:08	587	14.0	15.6	1.5	33	16.71
16-24-may	16:05:08	587	12.8	13.7	1.0	33	16.70
16-24-may	17:05:08	587	11.5	12.2	0.7	33	16.71
16-24-may	18:05:08	587	11.6	11.5	-0.2	32	16.70
16-24-may	19:05:08	588	9.9	9.4	-0.5	32	16.70
16-24-may	20:05:08	588	8.3	7.3	-1.0	32	16.72
16-24-may	21:05:08	589	3.9	3.3	-0.6	31	16.70
16-24-may	22:05:08	589	0.9	0.6	-0.3	32	16.70
16-24-may	23:05:08	589	1.5	0.1	-1.4	31	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 06 jun 14:27:16

Job Details:

Job Name:	16Jun06D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	586:32
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy
User2:	yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy

	Max	Min	Avg	Units
BP	593	587	589	mmHg
TA	32.9	8	20.6	°C
Q	---	---	16.7	Lpm

QCV	1.28 %
Max overheat	3.8 °C
occured	05-jun 19:42:18

Timer Information:

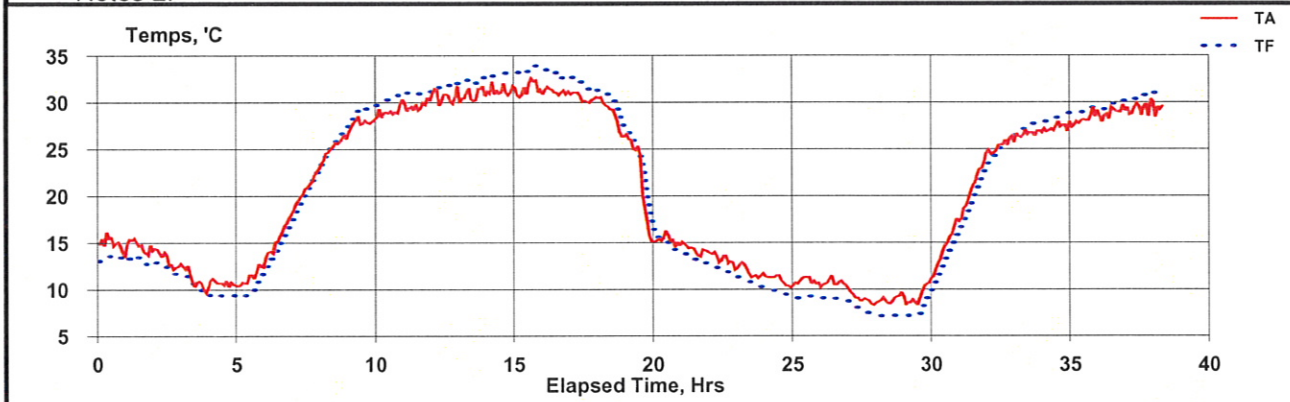
	Date dd-mmm	Time hh:mm:ss
Start:	16-05-jun	0:00:08
Stop:	16-06-jun	14:25:44
ET:	38:25:00	

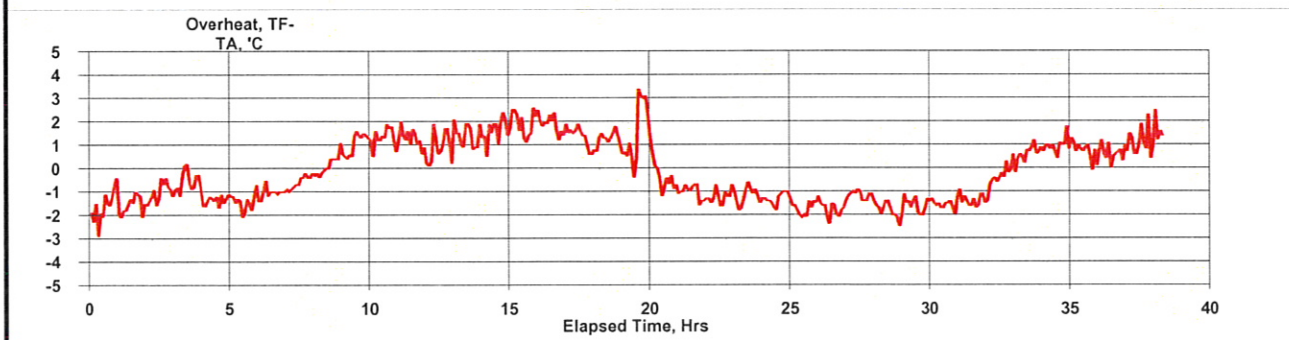
Mass Concentration Data:

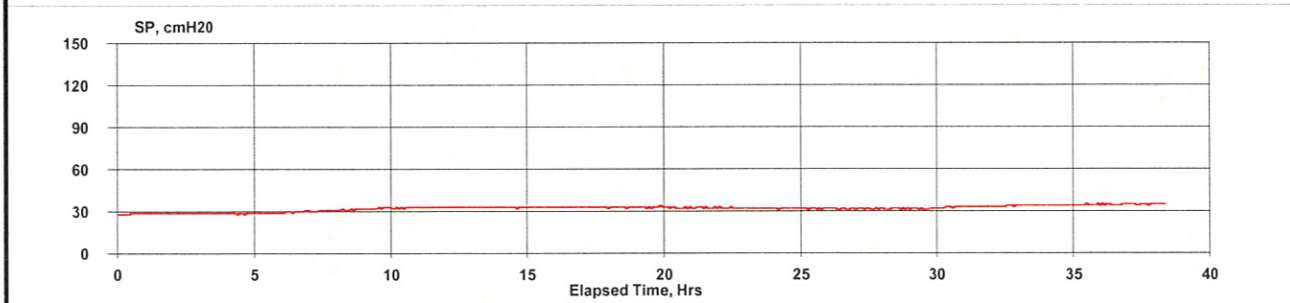
Filter ID:	19	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	38.491	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-05-jun	0:05:08	593	14.9	13.4	-1.6	29	16.69
16-05-jun	1:05:08	592	14.7	13.1	-1.6	29	16.71
16-05-jun	2:05:08	592	13.3	12.2	-1.0	29	16.71
16-05-jun	3:05:08	592	11.0	10.5	-0.6	29	16.71
16-05-jun	4:05:08	592	10.8	9.4	-1.4	29	16.71
16-05-jun	5:05:08	592	11.4	10.0	-1.4	29	16.71
16-05-jun	6:05:08	593	15.6	14.6	-1.1	30	16.71
16-05-jun	7:05:08	592	20.9	20.3	-0.6	31	16.71
16-05-jun	8:05:08	592	25.3	25.4	0.1	32	16.71
16-05-jun	9:05:08	591	27.9	28.9	1.0	32	16.70
16-05-jun	10:05:08	591	29.1	30.4	1.3	33	16.70
16-05-jun	11:05:08	591	29.7	31.0	1.3	33	16.71
16-05-jun	12:05:08	590	30.7	31.6	0.9	33	16.70
16-05-jun	13:05:08	590	30.9	32.3	1.4	33	16.72
16-05-jun	14:05:08	589	31.3	32.9	1.6	33	16.72
16-05-jun	15:05:08	589	31.5	33.4	1.9	33	16.71
16-05-jun	16:05:08	589	31.2	33.1	1.9	33	16.71
16-05-jun	17:05:08	588	30.6	31.9	1.4	33	16.71
16-05-jun	18:05:08	588	28.8	30.0	1.3	33	16.71
16-05-jun	19:05:08	588	22.1	23.6	1.5	33	16.71
16-05-jun	20:05:08	589	15.3	15.0	-0.3	33	16.71
16-05-jun	21:05:08	589	14.3	13.3	-1.0	32	16.70
16-05-jun	22:05:08	590	13.3	12.1	-1.2	32	16.72
16-05-jun	23:05:08	590	11.9	10.7	-1.2	32	16.73
16-06-jun	0:05:08	590	11.0	9.7	-1.3	32	16.71
16-06-jun	1:05:08	589	10.9	9.2	-1.7	32	16.72
16-06-jun	2:05:08	589	10.7	8.9	-1.8	32	16.71
16-06-jun	3:05:08	589	9.0	7.9	-1.2	32	16.71
16-06-jun	4:05:08	589	8.9	7.1	-1.8	32	16.70
16-06-jun	5:05:08	589	9.3	7.7	-1.6	32	16.71
16-06-jun	6:05:08	589	14.2	12.7	-1.6	33	16.72
16-06-jun	7:05:08	589	20.6	19.2	-1.4	33	16.71
16-06-jun	8:05:08	589	25.3	24.8	-0.5	33	16.71
16-06-jun	9:05:08	589	26.6	27.2	0.6	34	16.71
16-06-jun	10:05:08	589	27.3	28.2	1.0	34	16.71
16-06-jun	11:05:08	589	28.2	29.0	0.8	34	16.71
16-06-jun	12:05:08	588	28.9	29.5	0.6	34	16.72
16-06-jun	13:05:08	588	29.3	30.4	1.1	35	16.70
16-06-jun	14:05:08	588	29.4	30.9	1.5	35	16.71

BGI PQ200 Air Sampling System Downloaded 2016 14 jun 14:28:10

Job Details:

Job Name:	16Jun14D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	610:31
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	592	590	591	mmHg
TA	23.9	9.1	16.1	°C
Q	---	---	16.7	Lpm

QCV	0.54 %
Max overheat	5.1 °C
occured	12-jun 21:04:30

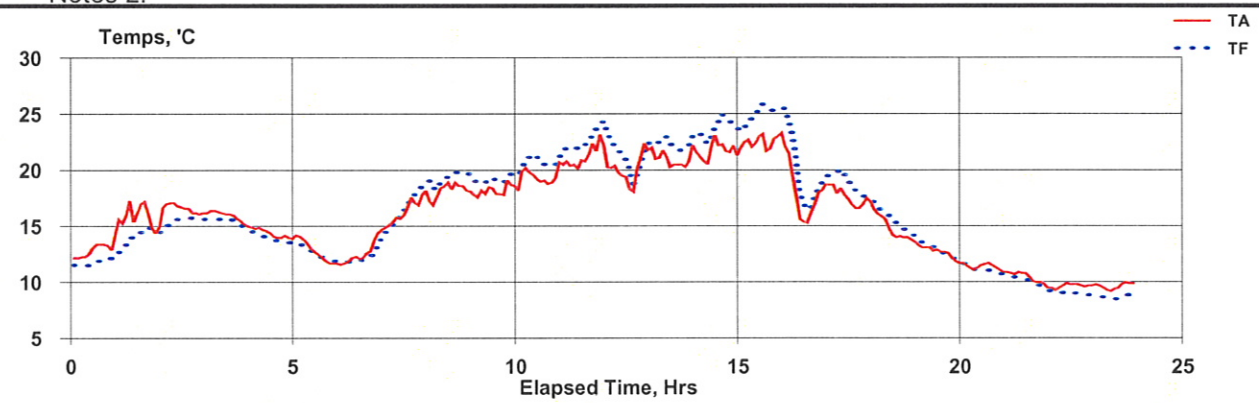
Timer Information:

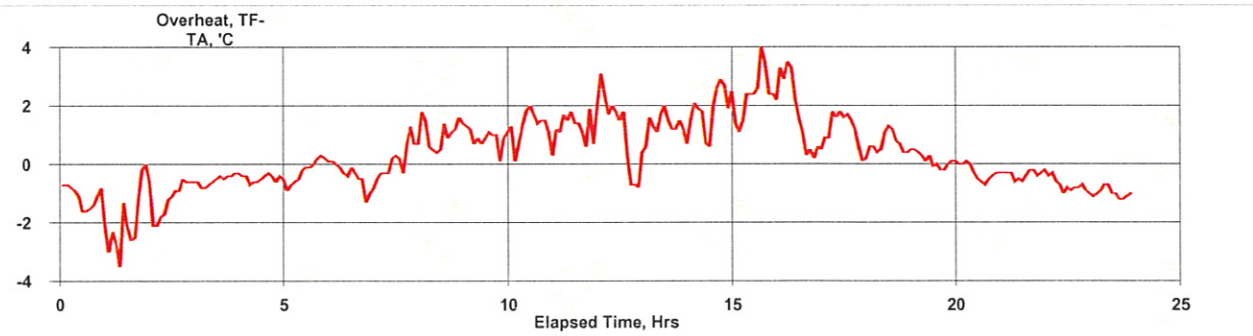
	Date dd-mmm	Time hh:mm:ss
Start:	16-11-jun	0:00:08
Stop:	16-12-jun	0:00:05
ET:	23:59	

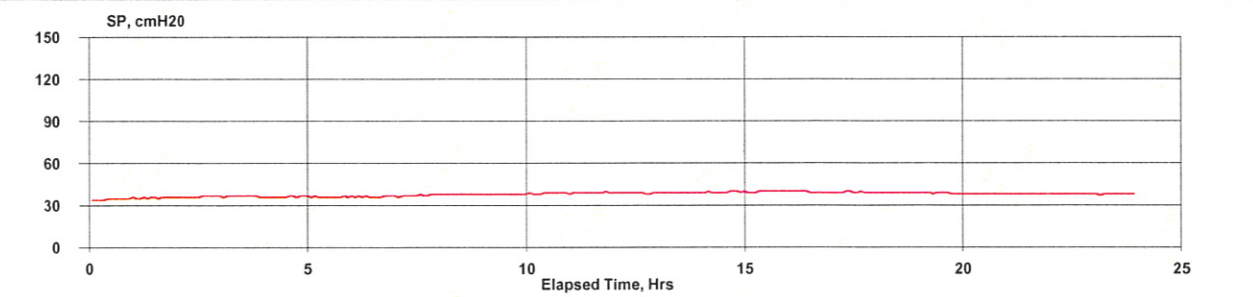
Mass Concentration Data:

Filter ID:	24	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-11-jun	0:05:08	591	13.0	11.8	-1.2	35	16.71
16-11-jun	1:05:08	592	15.9	14.0	-1.8	36	16.71
16-11-jun	2:05:08	591	16.6	15.4	-1.2	37	16.71
16-11-jun	3:05:08	591	15.9	15.4	-0.5	37	16.70
16-11-jun	4:05:08	591	14.4	13.9	-0.5	36	16.72
16-11-jun	5:05:08	592	12.8	12.6	-0.2	36	16.72
16-11-jun	6:05:08	591	12.7	12.3	-0.4	37	16.70
16-11-jun	7:05:08	591	16.4	16.6	0.2	37	16.70
16-11-jun	8:05:08	591	18.2	19.3	1.1	38	16.71
16-11-jun	9:05:08	591	18.2	19.1	0.9	38	16.71
16-11-jun	10:05:08	592	19.4	20.6	1.2	39	16.71
16-11-jun	11:05:08	592	21.3	22.6	1.4	39	16.71
16-11-jun	12:05:08	592	20.1	21.2	1.1	39	16.71
16-11-jun	13:05:08	591	21.0	22.3	1.3	39	16.71
16-11-jun	14:05:08	592	21.7	23.7	1.9	39	16.70
16-11-jun	15:05:08	591	22.6	24.9	2.4	40	16.71
16-11-jun	16:05:08	591	17.9	19.6	1.7	39	16.71
16-11-jun	17:05:08	591	17.6	18.7	1.2	39	16.72
16-11-jun	18:05:08	592	14.7	15.4	0.7	39	16.71
16-11-jun	19:05:08	592	12.7	12.8	0.1	39	16.71
16-11-jun	20:05:08	592	11.4	11.1	-0.3	38	16.70
16-11-jun	21:05:08	592	10.4	10.0	-0.4	38	16.71
16-11-jun	22:05:08	592	9.7	8.9	-0.7	38	16.71
16-11-jun	23:05:08	592	9.6	8.6	-1.0	38	16.71

BGI PQ200 Air Sampling System Downloaded 2016 20 jun 10:26:07

Job Details:

Job Name:	16Jun20D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	634:30
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	594	591	592	mmHg
TA	27.5	4.8	16.2	°C
Q	---	---	16.7	Lpm

QCV	0.53 %
Max overheat	4.9 °C
occured	18-jun 20:05:11

Timer Information:

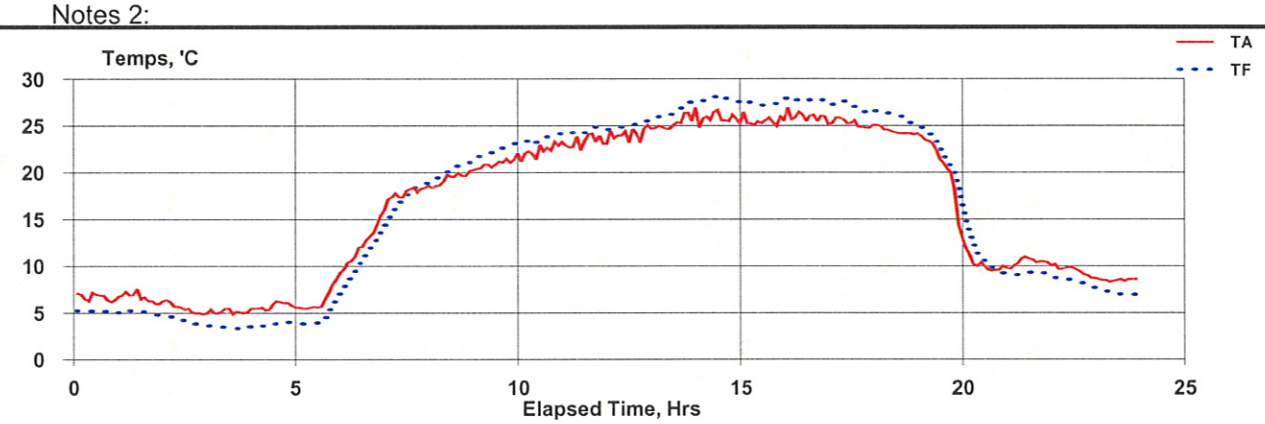
	Date dd-mmm	Time hh:mm:ss
Start:	16-17-jun	0:00:08
Stop:	16-18-jun	0:00:05
ET:	23:59	

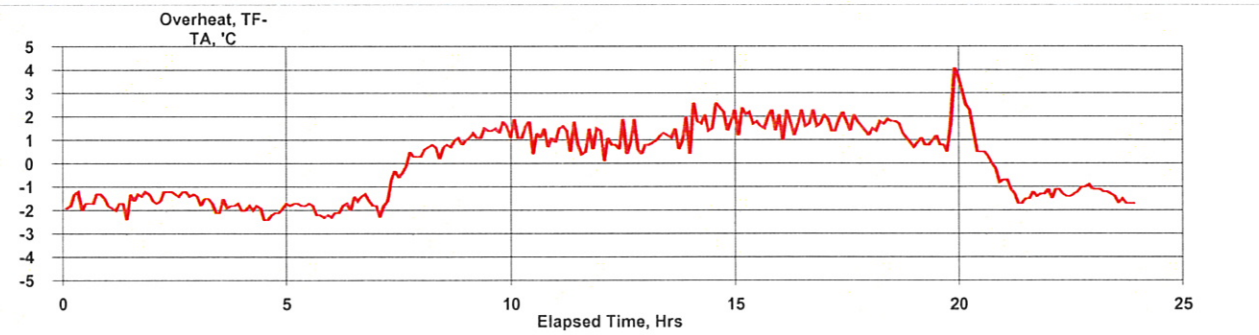
Mass Concentration Data:

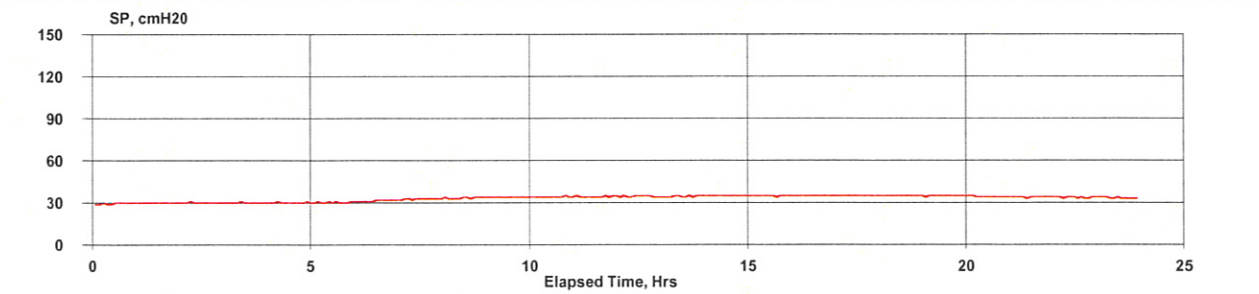
Filter ID:	30	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-17-jun	0:05:08	592	6.7	5.1	-1.6	30	16.70
16-17-jun	1:05:08	592	6.7	5.0	-1.6	30	16.72
16-17-jun	2:05:08	592	5.5	4.1	-1.3	30	16.71
16-17-jun	3:05:08	593	5.2	3.4	-1.8	30	16.72
16-17-jun	4:05:08	593	5.8	3.8	-2.0	30	16.71
16-17-jun	5:05:08	593	6.6	4.6	-2.0	30	16.71
16-17-jun	6:05:08	593	12.6	10.9	-1.7	32	16.71
16-17-jun	7:05:08	593	17.9	17.4	-0.5	33	16.71
16-17-jun	8:05:08	593	19.5	20.2	0.8	34	16.70
16-17-jun	9:05:08	593	21.1	22.4	1.4	34	16.71
16-17-jun	10:05:08	593	22.4	23.6	1.2	34	16.71
16-17-jun	11:05:08	593	23.3	24.5	1.1	34	16.72
16-17-jun	12:05:08	593	24.2	25.1	0.9	35	16.70
16-17-jun	13:05:08	593	25.4	26.5	1.1	35	16.71
16-17-jun	14:05:08	593	25.8	27.8	2.0	35	16.71
16-17-jun	15:05:08	592	25.5	27.4	1.9	35	16.71
16-17-jun	16:05:08	592	26.0	27.8	1.8	35	16.71
16-17-jun	17:05:08	592	25.3	27.0	1.7	35	16.71
16-17-jun	18:05:08	592	24.4	25.9	1.5	35	16.71
16-17-jun	19:05:08	593	20.4	21.9	1.5	35	16.71
16-17-jun	20:05:08	593	10.2	10.9	0.8	34	16.71
16-17-jun	21:05:08	594	10.4	9.1	-1.3	34	16.70
16-17-jun	22:05:08	594	9.5	8.3	-1.2	34	16.71
16-17-jun	23:05:08	594	8.5	7.1	-1.4	33	16.71

BGI PQ200 Air Sampling System Downloaded 2016 24 jun 11:35:25

Job Details:

Job Name:	16Jun24D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	658:29
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	593	590	591	mmHg
TA	32.6	10.3	21.6	°C
Q	---	---	16.7	Lpm

QCV	0.52 %
Max overheat	3.4 °C
occured	23-jun 15:42:39

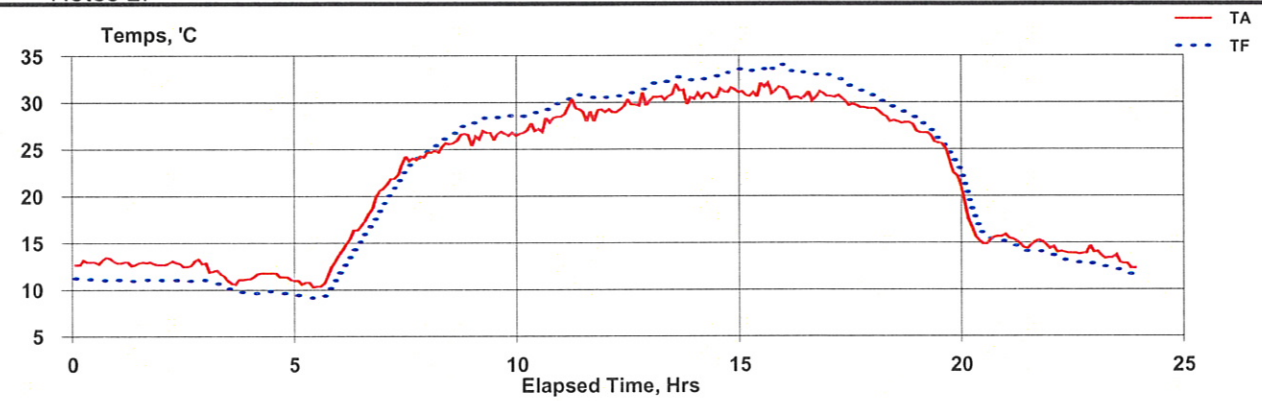
Timer Information:

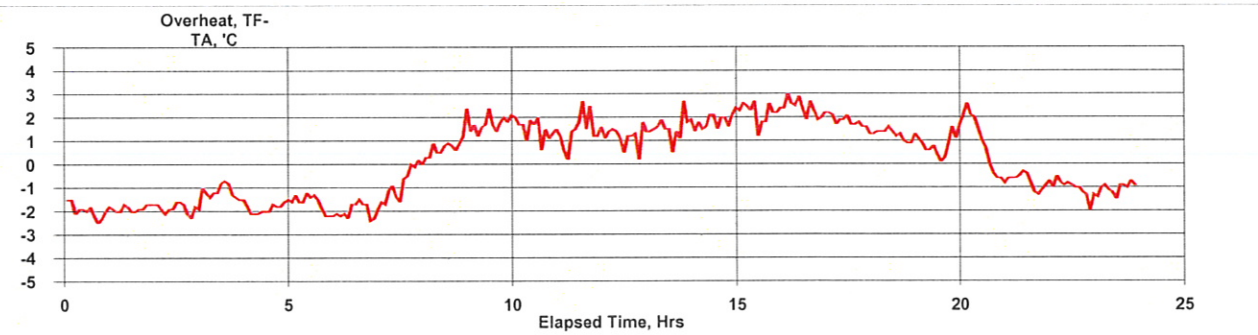
	Date dd-mmm	Time hh:mm:ss
Start:	16-23-jun	0:00:08
Stop:	16-24-jun	0:00:05
ET:	23:59	

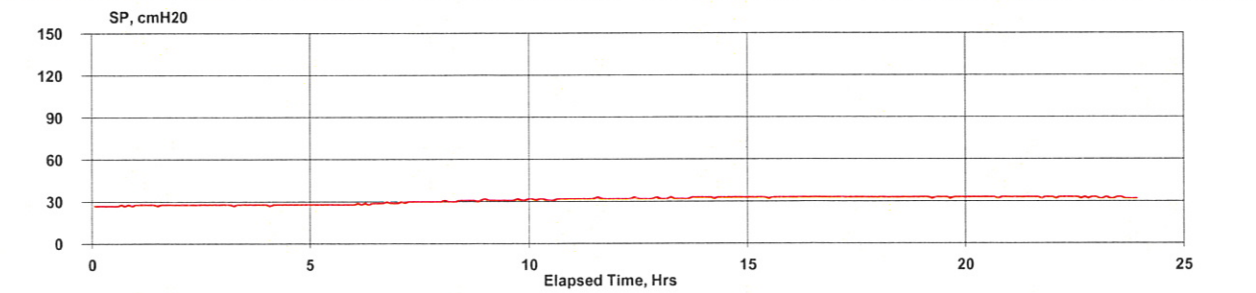
Mass Concentration Data:

Filter ID:	7	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.038	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:







16-23-jun	0:05:08	592	13.0	11.1	-2.0	27	16.71
16-23-jun	1:05:08	592	12.9	11.0	-1.9	28	16.72
16-23-jun	2:05:08	592	12.8	11.0	-1.9	28	16.71
16-23-jun	3:05:08	592	11.3	10.2	-1.2	28	16.71
16-23-jun	4:05:08	593	11.5	9.7	-1.9	28	16.71
16-23-jun	5:05:08	593	11.3	9.7	-1.7	28	16.71
16-23-jun	6:05:08	593	17.5	15.6	-2.0	29	16.71
16-23-jun	7:05:08	593	23.3	22.6	-0.8	30	16.71
16-23-jun	8:05:08	593	25.7	26.5	0.8	31	16.70
16-23-jun	9:05:08	593	26.6	28.3	1.7	31	16.71
16-23-jun	10:05:08	593	27.6	29.1	1.5	32	16.70
16-23-jun	11:05:08	592	29.1	30.5	1.5	32	16.72
16-23-jun	12:05:08	592	29.8	30.9	1.2	32	16.71
16-23-jun	13:05:08	592	30.8	32.3	1.6	32	16.71
16-23-jun	14:05:08	591	31.0	32.9	1.8	33	16.71
16-23-jun	15:05:08	591	31.3	33.5	2.2	33	16.71
16-23-jun	16:05:08	590	30.7	33.1	2.4	33	16.70
16-23-jun	17:05:08	590	30.0	31.8	1.8	33	16.70
16-23-jun	18:05:08	591	28.2	29.4	1.3	33	16.71
16-23-jun	19:05:08	591	24.9	25.7	0.8	33	16.71
16-23-jun	20:05:08	591	16.1	16.9	0.8	33	16.71
16-23-jun	21:05:08	592	15.0	14.2	-0.8	33	16.70
16-23-jun	22:05:08	592	14.1	13.0	-1.1	33	16.71
16-23-jun	23:05:08	592	13.1	12.1	-1.0	32	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 01 jul 16:22:44

Job Details:

Job Name:	16Jul01D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	682:28
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	595	591	593	mmHg
TA	31.6	11.5	20.8	°C
Q	---	---	16.7	Lpm
QCV			0.57	%
Max overheat			4.3	°C

occured 29-jun 14:03:42

Timer Information:

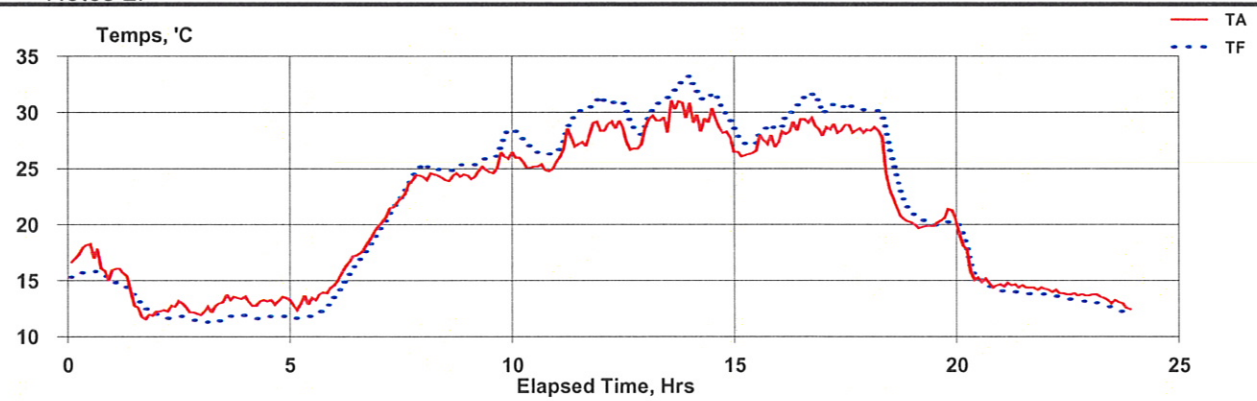
	Date dd-mmm	Time hh:mm:ss
Start:	16-29-jun	0:00:08
Stop:	16-30-jun	0:00:04
ET:	23:59	

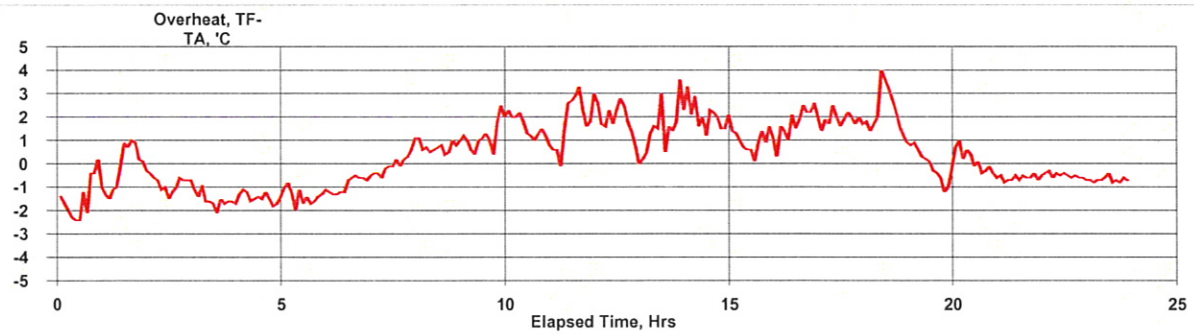
Mass Concentration Data:

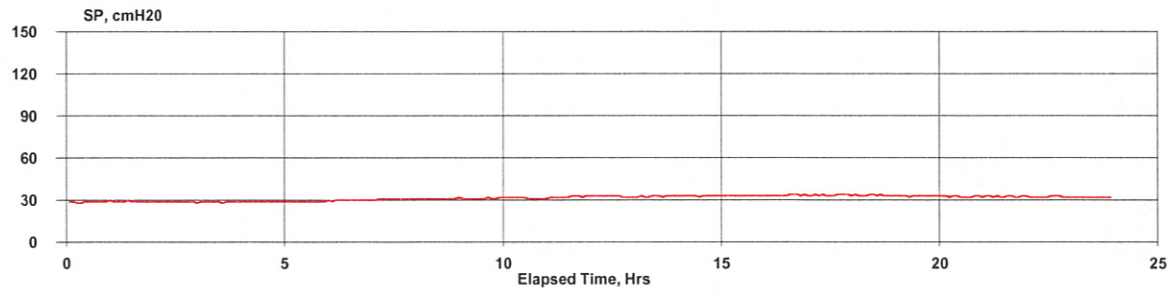
Filter ID:	12	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.039	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-29-jun	0:05:08	594	17.0	15.5	-1.4	29	16.71
16-29-jun	1:05:08	594	13.5	13.4	-0.1	29	16.70
16-29-jun	2:05:08	594	12.5	11.6	-0.9	29	16.71
16-29-jun	3:05:08	594	13.1	11.6	-1.5	29	16.71
16-29-jun	4:05:08	594	13.2	11.8	-1.4	29	16.70
16-29-jun	5:05:08	594	13.5	12.2	-1.4	29	16.71
16-29-jun	6:05:08	594	17.5	16.7	-0.9	30	16.71
16-29-jun	7:05:08	594	22.7	22.7	0.0	31	16.71
16-29-jun	8:05:08	594	24.3	25.0	0.7	31	16.70
16-29-jun	9:05:08	594	25.2	26.4	1.2	31	16.71
16-29-jun	10:05:08	594	25.3	26.9	1.6	32	16.71
16-29-jun	11:05:08	594	27.7	29.6	1.9	32	16.71
16-29-jun	12:05:08	593	28.1	29.9	1.8	33	16.70
16-29-jun	13:05:08	592	29.9	31.5	1.6	33	16.71
16-29-jun	14:05:08	592	28.8	30.8	2.1	33	16.71
16-29-jun	15:05:08	592	26.9	27.9	1.0	33	16.71
16-29-jun	16:05:08	592	28.7	30.5	1.8	33	16.71
16-29-jun	17:05:08	591	28.5	30.4	1.9	34	16.70
16-29-jun	18:05:08	592	23.9	26.1	2.2	33	16.71
16-29-jun	19:05:08	592	20.3	20.2	-0.1	33	16.71
16-29-jun	20:05:08	594	15.8	15.9	0.1	33	16.70
16-29-jun	21:05:08	594	14.5	13.9	-0.6	33	16.72
16-29-jun	22:05:08	594	13.9	13.4	-0.5	32	16.71
16-29-jun	23:05:08	593	13.2	12.5	-0.7	32	16.71

Collocated Monitor 2398E

PM_{10} Sampler Summary

April 1, 2016 - June 30, 2016

Network: **Alton Coal Development**
Site: Coal Hollow
Sampler ID: Coal Hollow-E **AQS ID:**
Sampler Type: BGI FRM Single

Date	Filter ID	Concentration (µg/m3) LTP	Concentration (µg/m3) STP	Sample Period (hr:min)	Sample Volume (m3)	Std Volume (m3)	Mass (mg) Tare	Gross	Net	Flag	Comments
04/06/16	P2929006	**6.2**	**7.5**	23:59	24.0	19.9	391.337	391.487	0.150		
04/12/16	P2929227	**10.1**	**12.3**	23:59	24.0	19.9	369.995	370.240	0.245		
04/18/16	P2929232	**6.9**	**8.3**	23:59	24.0	20.1	372.800	372.967	0.167	HT	
04/24/16	P2929391	**Invalid - AN**	**Invalid - AN**	23:59	24.0	19.7	391.155	391.160	0.005		Chamber opened
04/30/16	P2929396	**1.9**	**2.3**	23:59	24.0	20.0	385.133	385.180	0.047	HT	
05/06/16	P2929401	**28.6**	**34.9**	23:59	24.0	19.7	372.573	373.261	0.688	HT	
05/12/16	P2929634	**55.6**	**68.1**	23:59	24.0	19.6	373.288	374.626	1.338		
05/18/16	P2929819	**11.1**	**13.5**	23:59	24.0	19.7	370.975	371.242	0.267	HT	
05/24/16	P2929823	**28.5**	**34.9**	23:59	24.0	19.7	364.982	365.669	0.687		
05/30/16	P2929639	**9.1**	**11.3**	23:59	24.0	19.5	370.808	371.029	0.221	XT,HT	
06/05/16	P2930157	**11.5**	**14.7**	23:59	24.0	18.9	366.319	366.597	0.278		
06/11/16	P2930163	**22.0**	**27.4**	23:59	24.0	19.3	368.626	369.155	0.529	HT	
06/17/16	P2930169	**65.1**	**81.0**	23:59	24.0	19.3	376.528	378.093	1.565	HT	
06/23/16	P2930506	**88.7**	**112.6**	23:59	24.0	18.9	366.122	368.254	2.132		
06/29/16	P2930511	**38.4**	**48.4**	23:59	24.0	19.0	365.404	366.327	0.923		Filter lighter
06/24/16	P2930512		**Field Blank**				369.393	369.416	0.023		

# Valid	Recovery	Average	St. Dev.	Max	Min
14	**93%**	**34.1**	**32.8**	**112.6**	**2.3**

BGI PQ200 Air Sampling System Downloaded 2016 02 apr 12:11:10

Job Details:

Job Name:	16Apr02E.JOB	Job Code:	
Version:	5.62	Site Name:	2398E
Serial No:	2398	Station Code:	
Pump Time:	262:50	Operators:	KN
Flags:		User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
		User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	590	586	587	mmHg
TA	10.1	-5.6	1.6	°C
Q	---	---	16.71	Lpm

QCV	0.47 %
Max overheat	3.1 °C
occured	31-mar 15:43:46

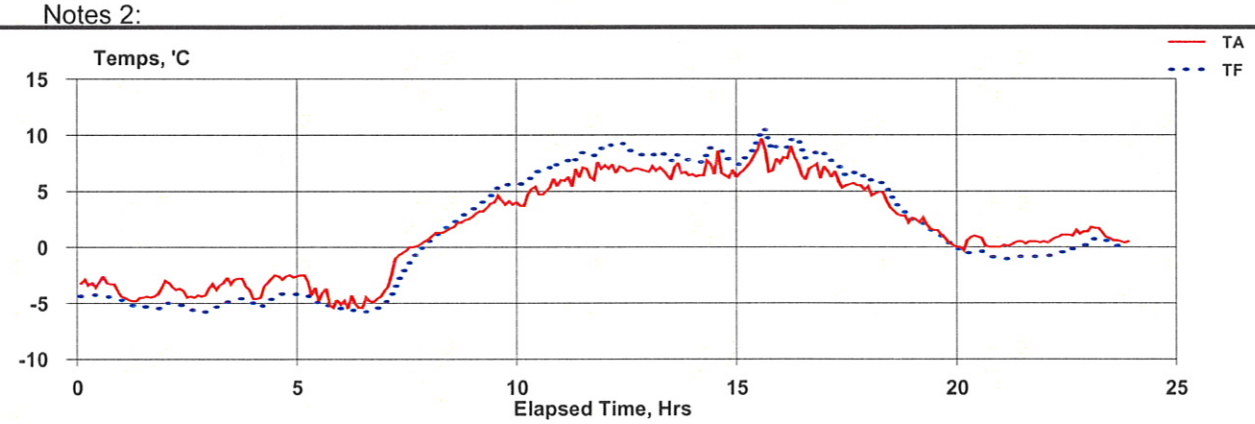
Timer Information:

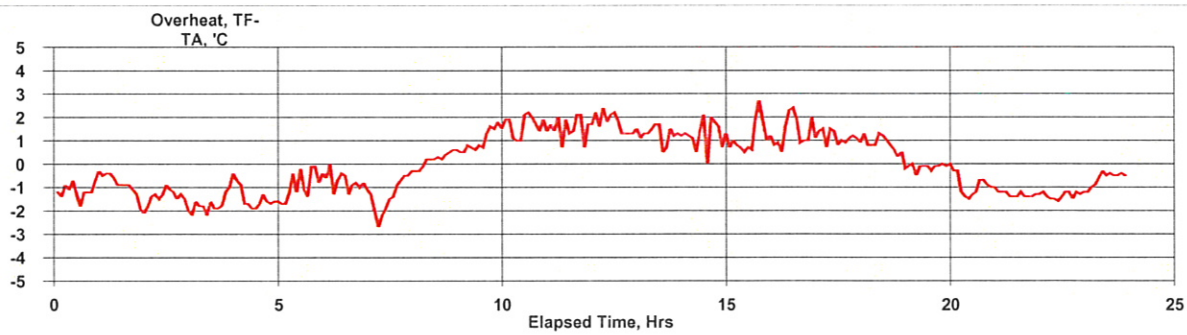
	Date dd-mmm	Time hh:mm:ss
Start:	16-31-mar	0:00:08
Stop:	16-01-apr	0:00:05
ET:	23:59	

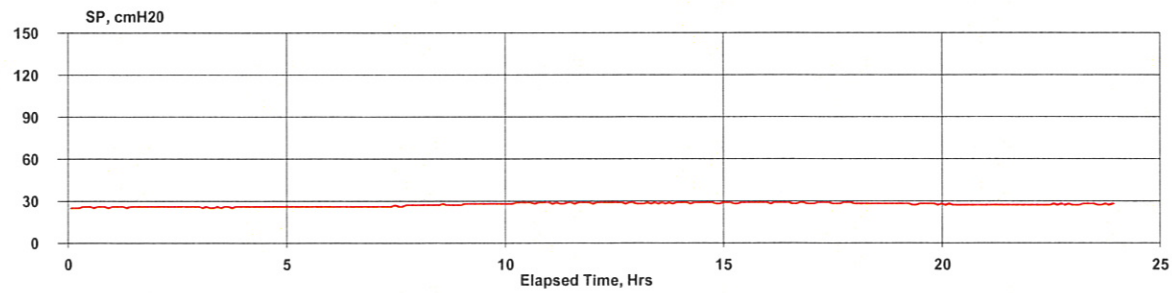
Mass Concentration Data:

Filter ID:	33	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.039	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-31-mar	0:05:08	587	-3.3	-4.4	-1.1	26	16.70
16-31-mar	1:05:08	587	-4.3	-5.3	-1.0	26	16.72
16-31-mar	2:05:08	587	-4.0	-5.4	-1.4	26	16.72
16-31-mar	3:05:08	587	-3.3	-5.0	-1.6	26	16.72
16-31-mar	4:05:08	587	-3.1	-4.6	-1.5	26	16.72
16-31-mar	5:05:08	587	-4.1	-4.9	-0.9	26	16.72
16-31-mar	6:05:08	587	-4.8	-5.6	-0.8	26	16.74
16-31-mar	7:05:08	587	-0.6	-1.9	-1.3	26	16.71
16-31-mar	8:05:08	587	1.8	2.0	0.2	27	16.70
16-31-mar	9:05:08	587	3.8	4.8	1.0	28	16.72
16-31-mar	10:05:08	587	5.0	6.6	1.6	29	16.72
16-31-mar	11:05:08	587	6.6	8.1	1.6	29	16.71
16-31-mar	12:05:08	587	6.9	8.7	1.7	29	16.71
16-31-mar	13:05:08	587	6.8	8.0	1.3	29	16.72
16-31-mar	14:05:08	587	6.8	8.1	1.3	29	16.71
16-31-mar	15:05:08	586	7.7	8.8	1.1	29	16.72
16-31-mar	16:05:08	586	7.3	8.7	1.4	29	16.72
16-31-mar	17:05:08	587	5.8	6.9	1.1	29	16.71
16-31-mar	18:05:08	587	3.6	4.4	0.8	28	16.71
16-31-mar	19:05:08	587	1.4	1.2	-0.1	28	16.70
16-31-mar	20:05:08	588	0.3	-0.6	-1.0	27	16.70
16-31-mar	21:05:08	588	0.4	-0.9	-1.3	27	16.71
16-31-mar	22:05:08	589	1.0	-0.3	-1.4	27	16.71
16-31-mar	23:05:08	589	1.0	0.4	-0.6	28	16.72

BGI PQ200 Air Sampling System Downloaded 2016 07 apr 14:44:46

Job Details:

Job Name:	16Apr07E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	286:49
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	598	594	596	mmHg
TA	20.7	-4.4	9.4	°C
Q	---	---	16.7	Lpm

QCV	0.4 %
Max overheat	2.8 °C
occured	07-apr 12:26:38

Timer Information:

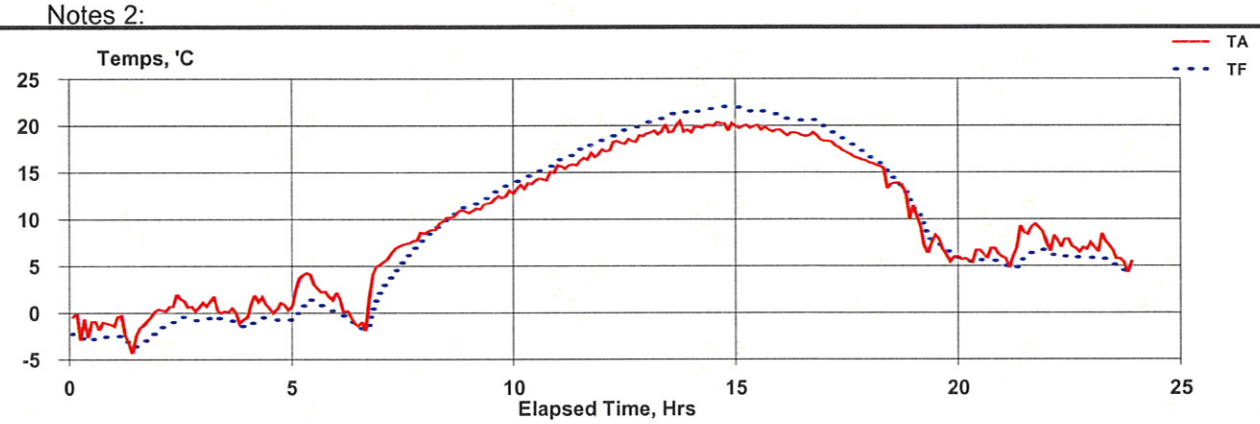
	Date dd-mmm	Time hh:mm:ss
Start:	16-06-apr	0:00:08
Stop:	16-07-apr	0:00:04
ET:	23:59	

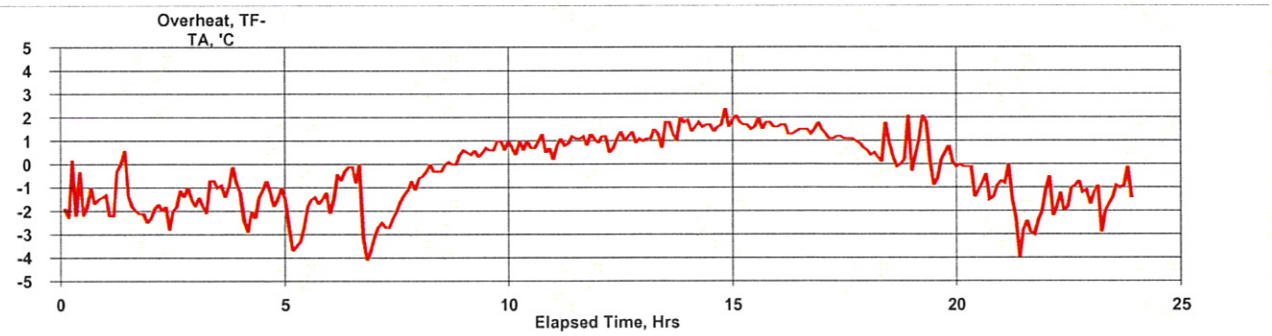
Mass Concentration Data:

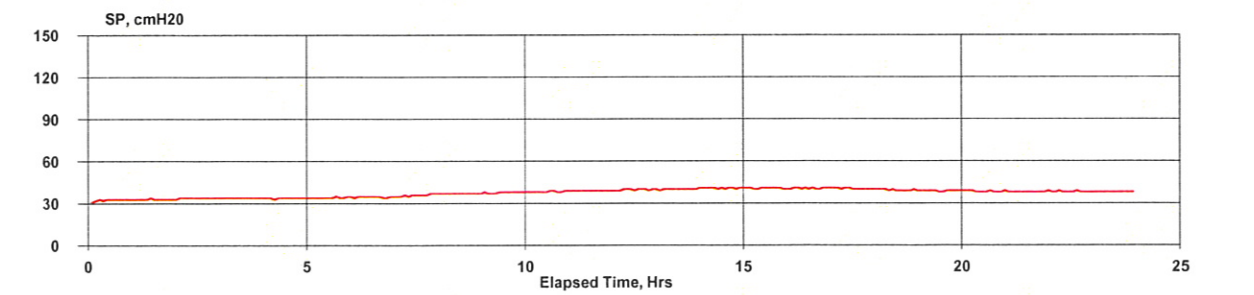
Filter ID:	38	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.033	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-06-apr	0:05:08	597	-1.2	-2.7	-1.5	33	16.71
16-06-apr	1:05:08	597	-1.4	-2.9	-1.5	33	16.70
16-06-apr	2:05:08	597	0.8	-0.9	-1.7	34	16.70
16-06-apr	3:05:08	597	0.2	-0.9	-1.1	34	16.71
16-06-apr	4:05:08	596	0.9	-0.8	-1.7	34	16.71
16-06-apr	5:05:08	597	2.8	0.6	-2.3	34	16.71
16-06-apr	6:05:08	597	1.0	-0.5	-1.5	35	16.71
16-06-apr	7:05:08	598	7.2	5.4	-1.8	36	16.71
16-06-apr	8:05:08	597	10.0	10.0	0.0	37	16.70
16-06-apr	9:05:08	597	12.0	12.6	0.6	38	16.71
16-06-apr	10:05:08	598	14.3	15.0	0.7	38	16.71
16-06-apr	11:05:08	597	16.4	17.4	1.0	39	16.70
16-06-apr	12:05:08	597	18.3	19.4	1.1	40	16.70
16-06-apr	13:05:08	596	19.6	21.0	1.4	40	16.69
16-06-apr	14:05:08	596	20.1	21.8	1.7	41	16.70
16-06-apr	15:05:08	595	19.8	21.5	1.7	41	16.70
16-06-apr	16:05:08	595	19.0	20.5	1.5	41	16.71
16-06-apr	17:05:08	595	17.2	18.2	1.0	40	16.70
16-06-apr	18:05:08	595	13.8	14.3	0.5	39	16.70
16-06-apr	19:05:08	595	7.3	7.7	0.5	39	16.70
16-06-apr	20:05:08	595	6.2	5.5	-0.7	38	16.71
16-06-apr	21:05:08	595	7.8	5.7	-2.1	38	16.73
16-06-apr	22:05:08	595	7.3	5.9	-1.3	38	16.71
16-06-apr	23:05:08	595	6.4	5.1	-1.3	38	16.71

BGI PQ200 Air Sampling System Downloaded 2016 13 apr 13:59:56

Job Details:

Job Name: 16Apr13E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 310:48
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	593	590	591	mmHg
TA	17.9	0.3	7.2	°C
Q	---	---	16.7	Lpm

QCV 0.46 %
Max overheat 4.3 °C
occured 12-apr 12:55:49

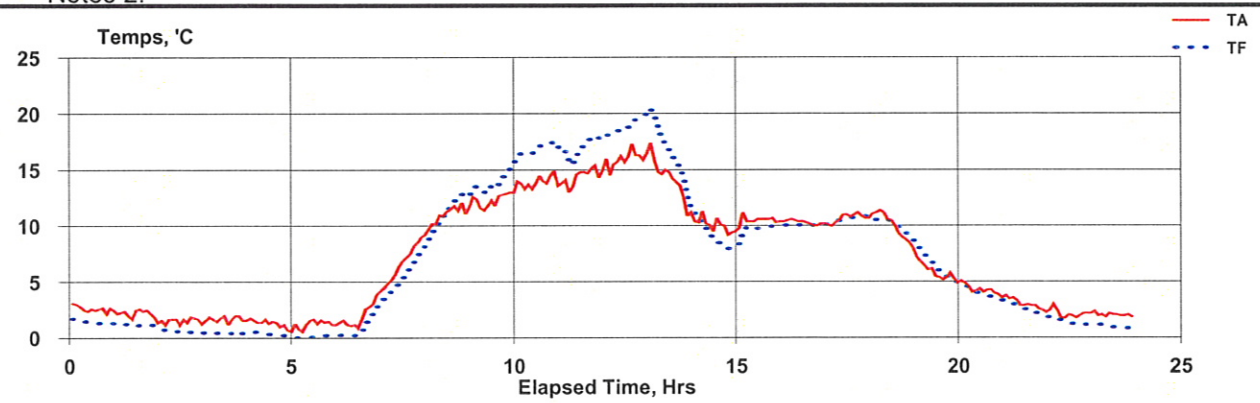
Timer Information:

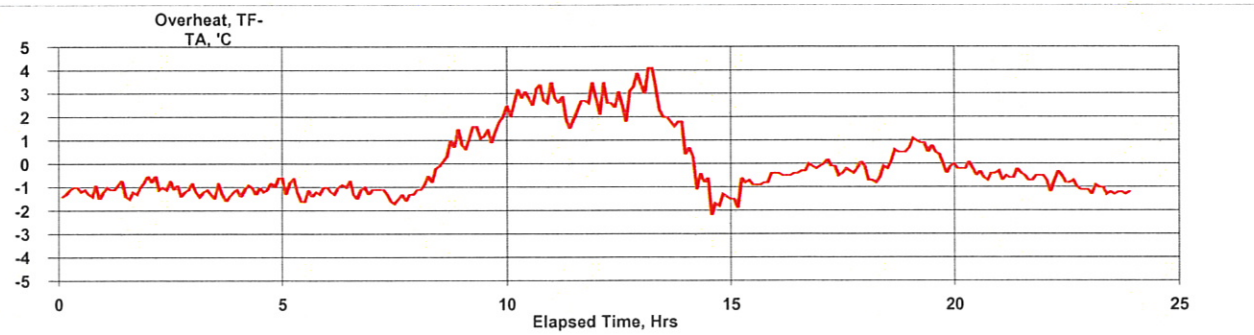
	Date dd-mmm	Time hh:mm:ss
Start:	16-12-apr	0:00:08
Stop:	16-13-apr	0:00:05
ET:	23:59	

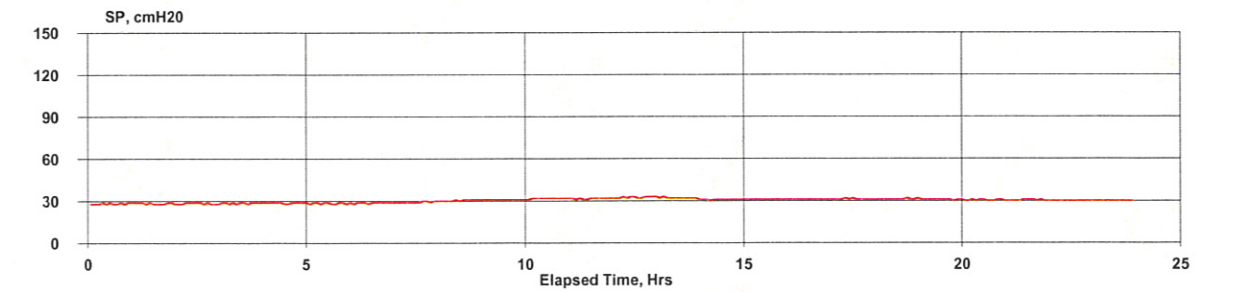
Mass Concentration Data:

Filter ID:	8	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.036	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-12-apr	0:05:08	591	2.6	1.4	-1.2	28	16.71
16-12-apr	1:05:08	591	2.2	1.1	-1.0	29	16.71
16-12-apr	2:05:08	591	1.6	0.6	-1.0	29	16.70
16-12-apr	3:05:08	591	1.7	0.5	-1.3	29	16.71
16-12-apr	4:05:08	591	1.3	0.3	-1.0	29	16.70
16-12-apr	5:05:08	591	1.3	0.1	-1.2	29	16.71
16-12-apr	6:05:08	591	2.1	1.0	-1.1	29	16.71
16-12-apr	7:05:08	592	6.9	5.6	-1.3	29	16.70
16-12-apr	8:05:08	592	11.1	11.1	0.1	31	16.70
16-12-apr	9:05:08	592	12.4	13.8	1.4	31	16.70
16-12-apr	10:05:08	592	13.9	16.8	2.9	32	16.70
16-12-apr	11:05:08	592	14.4	16.9	2.5	32	16.71
16-12-apr	12:05:08	592	16.0	18.9	2.9	33	16.72
16-12-apr	13:05:08	592	14.1	16.4	2.3	32	16.71
16-12-apr	14:05:08	592	10.1	9.1	-1.0	31	16.70
16-12-apr	15:05:08	591	10.5	9.6	-0.9	31	16.70
16-12-apr	16:05:08	591	10.3	10.0	-0.3	31	16.70
16-12-apr	17:05:08	591	10.7	10.5	-0.2	31	16.71
16-12-apr	18:05:08	591	10.0	10.0	0.0	31	16.71
16-12-apr	19:05:08	592	5.9	6.3	0.5	31	16.70
16-12-apr	20:05:08	592	4.3	4.0	-0.3	30	16.70
16-12-apr	21:05:08	592	3.0	2.5	-0.5	30	16.70
16-12-apr	22:05:08	592	2.2	1.3	-0.8	30	16.70
16-12-apr	23:05:08	592	2.1	0.9	-1.2	30	16.70

BGI PQ200 Air Sampling System Downloaded 2016 20 apr 10:09:24

Job Details:

Job Name: 16Apr20E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 334:47
Flags:

Job Code:
Site Name: 2398E
Station Code:
Operators: KN
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	593	591	592	mmHg
TA	15.1	-4.4	4.7	°C
Q	---	---	16.7	Lpm

QCV 0.46 %
Max overheat 4.2 °C
occured 18-apr 16:03:04

Timer Information:

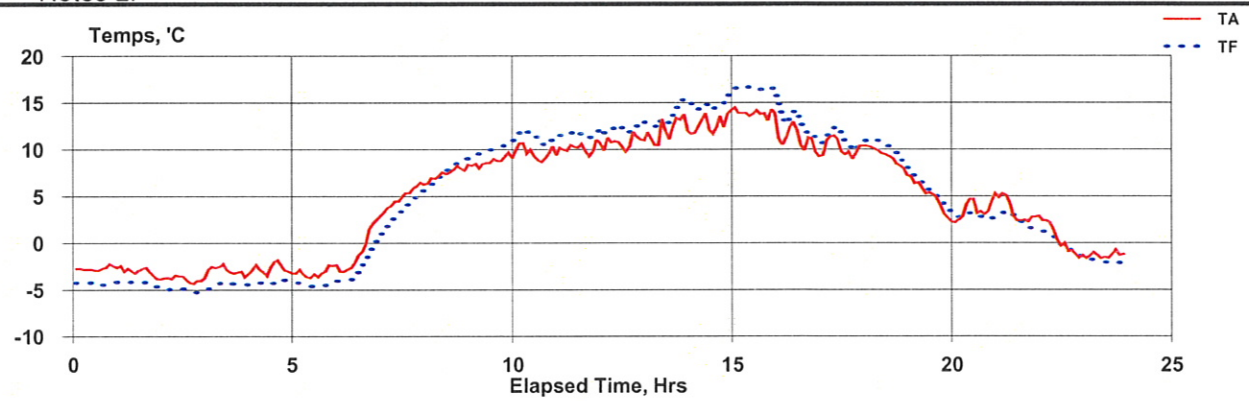
	Date dd-mmm	Time hh:mm:ss
Start:	16-18-apr	0:00:08
Stop:	16-19-apr	0:00:05

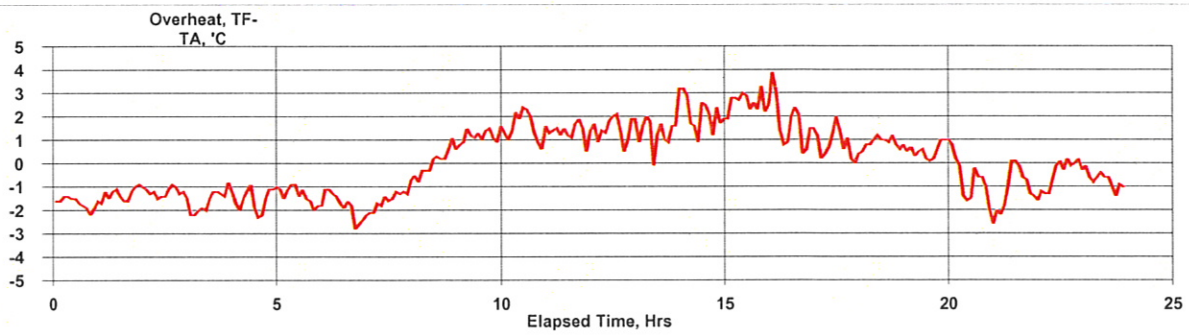
ET: 23:59

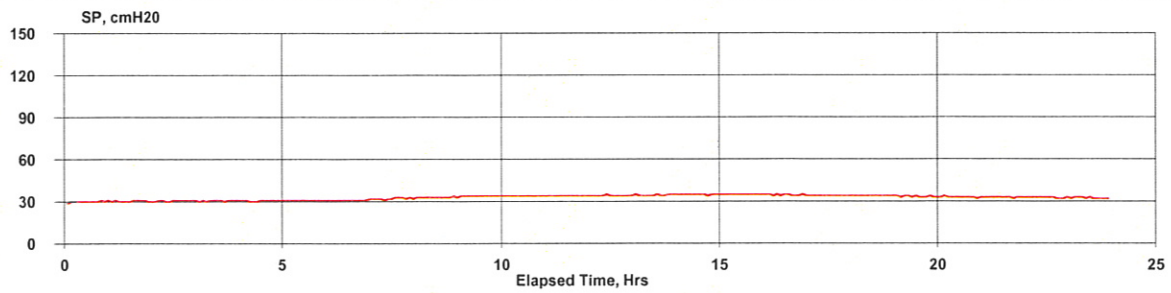
Mass Concentration Data:

Filter ID:	40	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.035	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-18-apr	0:05:08	593	-2.7	-4.4	-1.7	30	16.71
16-18-apr	1:05:08	593	-3.1	-4.3	-1.3	30	16.71
16-18-apr	2:05:08	593	-3.8	-5.1	-1.2	31	16.70
16-18-apr	3:05:08	592	-2.9	-4.5	-1.6	31	16.71
16-18-apr	4:05:08	593	-2.7	-4.2	-1.5	31	16.71
16-18-apr	5:05:08	592	-3.1	-4.5	-1.4	31	16.72
16-18-apr	6:05:08	593	-0.6	-2.4	-1.8	31	16.70
16-18-apr	7:05:08	593	5.1	3.6	-1.5	32	16.70
16-18-apr	8:05:08	593	7.5	7.6	0.1	33	16.71
16-18-apr	9:05:08	593	8.8	10.0	1.2	34	16.71
16-18-apr	10:05:08	593	9.7	11.3	1.6	34	16.70
16-18-apr	11:05:08	593	10.2	11.6	1.4	34	16.71
16-18-apr	12:05:08	593	10.8	12.3	1.5	34	16.70
16-18-apr	13:05:08	592	12.1	13.6	1.5	34	16.71
16-18-apr	14:05:08	592	12.8	14.8	2.1	35	16.69
16-18-apr	15:05:08	592	13.9	16.5	2.6	35	16.71
16-18-apr	16:05:08	592	11.0	12.8	1.7	35	16.71
16-18-apr	17:05:08	592	10.2	11.0	0.8	34	16.70
16-18-apr	18:05:08	592	9.2	10.1	0.9	34	16.71
16-18-apr	19:05:08	592	4.9	5.4	0.6	33	16.71
16-18-apr	20:05:08	592	3.7	2.8	-0.9	33	16.71
16-18-apr	21:05:08	593	3.4	2.3	-1.0	33	16.71
16-18-apr	22:05:08	593	0.2	-0.2	-0.4	33	16.71
16-18-apr	23:05:08	592	-1.3	-2.0	-0.7	32	16.71

BGI PQ200 Air Sampling System Downloaded 2016 25 apr 11:00:14

Job Details:

Job Name:	16Apr25E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	358:46
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	588	583	586	mmHg
TA	17.5	-3.6	7.7	°C
Q	---	---	16.7	Lpm

QCV	0.35	%
Max overheat	3.3	°C
occured	24-apr 14:14:19	

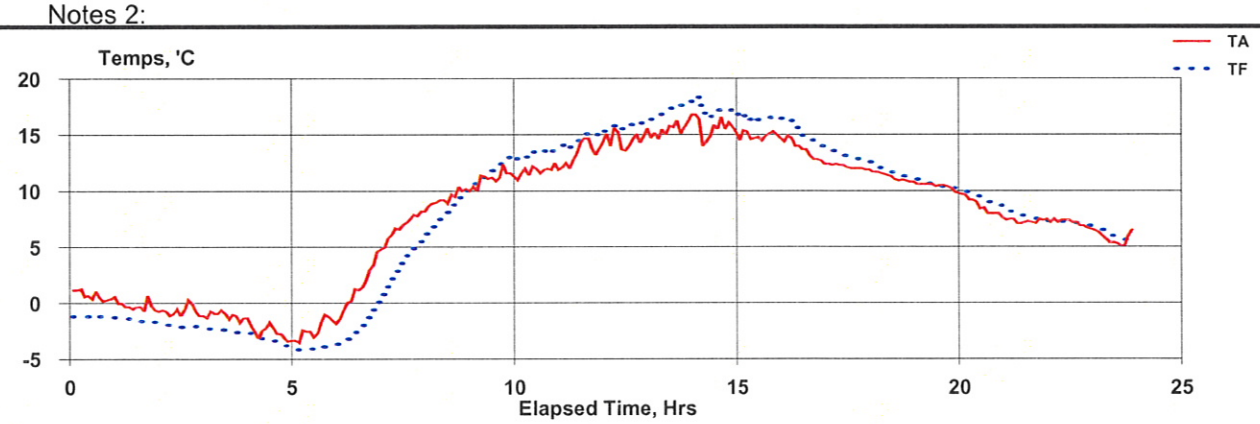
Timer Information:

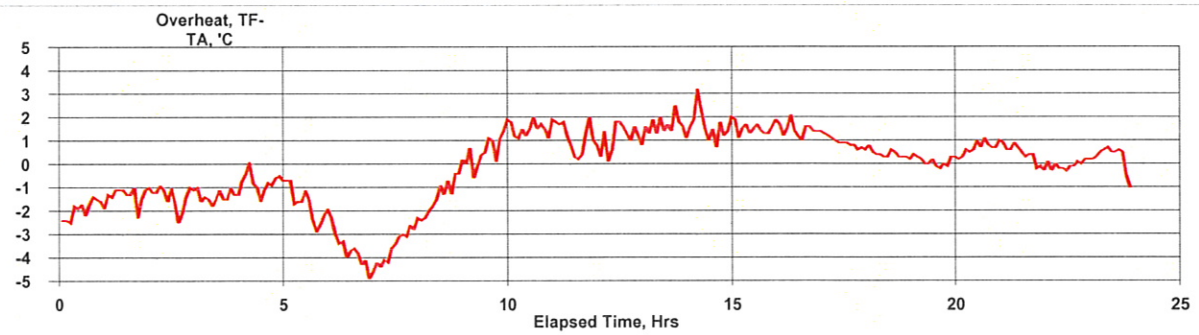
	Date dd-mmm	Time hh:mm:ss
Start:	16-24-apr	0:00:08
Stop:	16-25-apr	0:00:05
ET:	23:59	

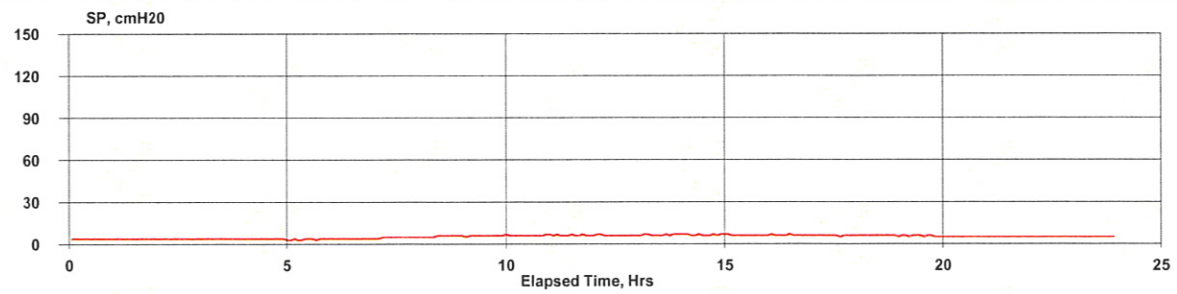
Mass Concentration Data:

Filter ID:	20	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.01	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-24-apr	0:05:08	588	0.7	-1.2	-1.9	4	16.71
16-24-apr	1:05:08	588	-0.3	-1.6	-1.3	4	16.70
16-24-apr	2:05:08	588	-0.7	-2.1	-1.4	4	16.71
16-24-apr	3:05:08	587	-1.1	-2.5	-1.4	4	16.71
16-24-apr	4:05:08	587	-2.6	-3.4	-0.8	4	16.71
16-24-apr	5:05:08	587	-2.3	-4.0	-1.7	4	16.71
16-24-apr	6:05:08	587	1.7	-2.1	-3.8	4	16.69
16-24-apr	7:05:08	588	7.0	3.6	-3.4	5	16.71
16-24-apr	8:05:08	588	9.5	8.2	-1.2	6	16.72
16-24-apr	9:05:08	588	11.2	11.8	0.6	6	16.71
16-24-apr	10:05:08	588	11.8	13.3	1.5	6	16.69
16-24-apr	11:05:08	587	13.5	14.6	1.1	6	16.67
16-24-apr	12:05:08	587	14.7	15.8	1.1	6	16.70
16-24-apr	13:05:08	586	15.6	17.2	1.6	7	16.70
16-24-apr	14:05:08	586	15.6	17.3	1.7	7	16.71
16-24-apr	15:05:08	586	14.9	16.4	1.5	6	16.70
16-24-apr	16:05:08	586	13.6	15.1	1.5	6	16.69
16-24-apr	17:05:08	585	12.1	13.0	0.9	6	16.71
16-24-apr	18:05:08	585	11.2	11.6	0.4	6	16.70
16-24-apr	19:05:08	585	10.4	10.5	0.1	6	16.70
16-24-apr	20:05:08	585	8.6	9.3	0.7	5	16.72
16-24-apr	21:05:08	585	7.3	7.7	0.4	5	16.69
16-24-apr	22:05:08	584	7.1	7.1	0.0	5	16.71
16-24-apr	23:05:08	583	5.8	6.0	0.3	5	16.70

BGI PQ200 Air Sampling System Downloaded 2016 02 may 10:18:59

Job Details:

Job Name:	16May02E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	382:45
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	587	584	585	mmHg
TA	9.3	-0.2	3.3	°C
Q	---	---	16.7	Lpm

QCV	0.48 %
Max overheat	3.3 °C
occured	30-apr 16:00:51

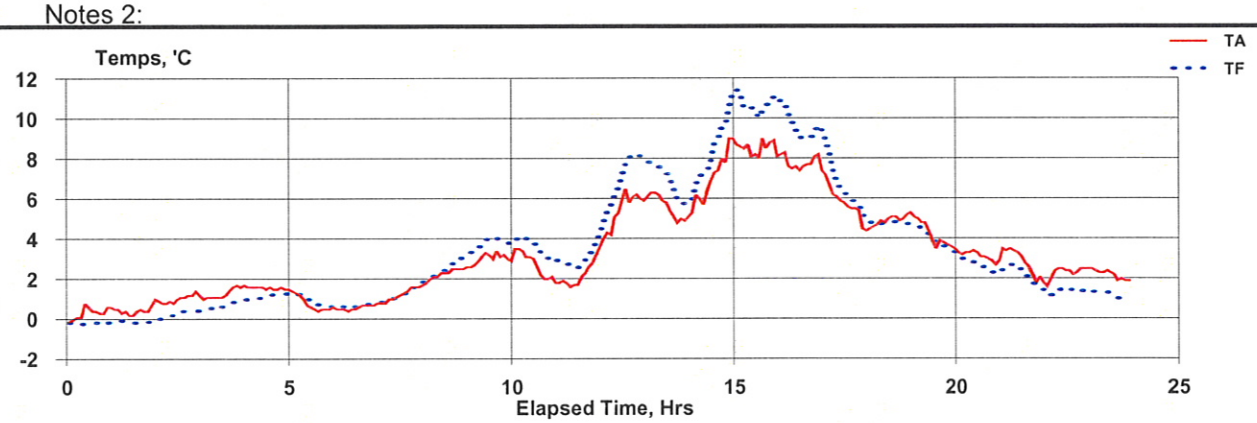
Timer Information:

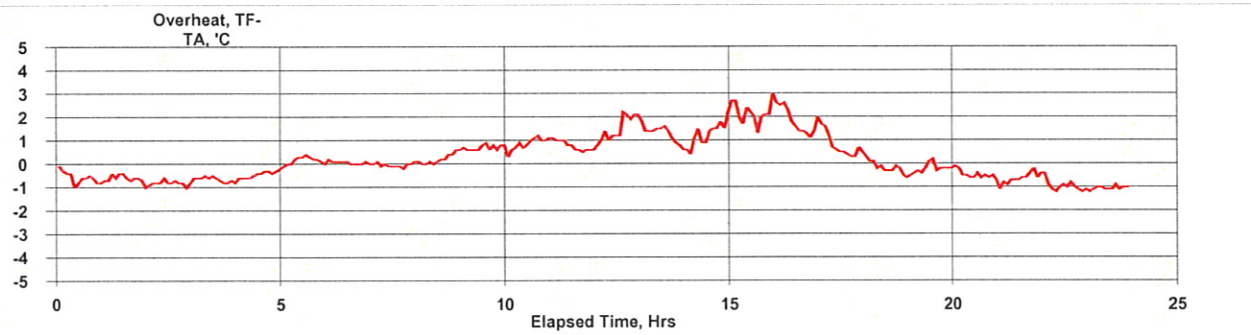
	Date dd-mmm	Time hh:mm:ss
Start:	16-30-apr	0:00:08
Stop:	16-01-may	0:00:05
ET:	23:59	

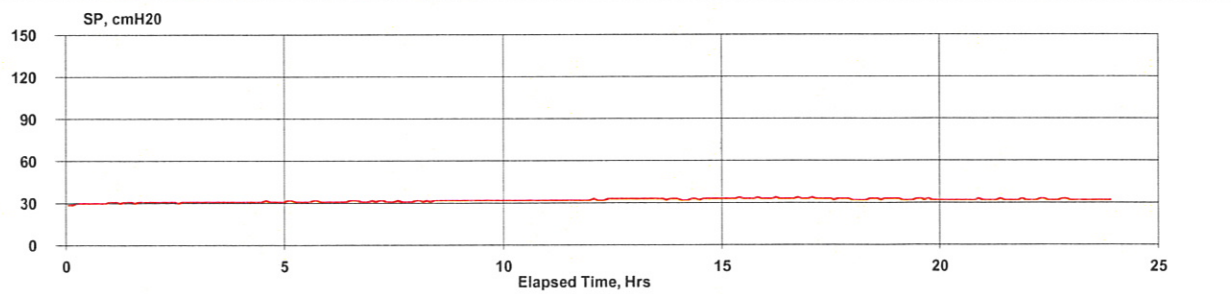
Mass Concentration Data:

Filter ID:	25	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.033	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-30-apr	0:05:08	585	0.3	-0.2	-0.6	30	16.71
16-30-apr	1:05:08	585	0.5	-0.2	-0.6	31	16.70
16-30-apr	2:05:08	585	1.0	0.2	-0.8	31	16.71
16-30-apr	3:05:08	585	1.3	0.7	-0.7	31	16.72
16-30-apr	4:05:08	585	1.6	1.1	-0.4	31	16.71
16-30-apr	5:05:08	585	0.8	0.9	0.2	31	16.70
16-30-apr	6:05:08	585	0.6	0.7	0.1	31	16.71
16-30-apr	7:05:08	585	1.3	1.2	0.0	31	16.71
16-30-apr	8:05:08	585	2.3	2.5	0.2	32	16.69
16-30-apr	9:05:08	585	3.0	3.7	0.7	32	16.71
16-30-apr	10:05:08	586	2.7	3.6	0.9	32	16.73
16-30-apr	11:05:08	586	2.3	3.0	0.8	32	16.73
16-30-apr	12:05:08	586	5.4	7.0	1.5	33	16.72
16-30-apr	13:05:08	586	5.6	6.9	1.3	33	16.69
16-30-apr	14:05:08	585	7.1	8.4	1.3	33	16.70
16-30-apr	15:05:08	585	8.5	10.7	2.2	33	16.72
16-30-apr	16:05:08	585	7.8	9.6	1.8	33	16.73
16-30-apr	17:05:08	586	5.7	6.5	0.8	33	16.71
16-30-apr	18:05:08	586	4.9	4.8	-0.2	33	16.71
16-30-apr	19:05:08	586	4.2	4.0	-0.2	32	16.71
16-30-apr	20:05:08	587	3.1	2.6	-0.5	32	16.70
16-30-apr	21:05:08	587	2.8	2.2	-0.6	32	16.70
16-30-apr	22:05:08	587	2.3	1.3	-1.0	32	16.70
16-30-apr	23:05:08	586	2.2	1.1	-1.1	32	16.71

BGI PQ200 Air Sampling System Downloaded 2016 09 may 15:49:36

Job Details:

Job Name: 16May09E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 406:44
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	587	584	585	mmHg
TA	15.9	-1.4	6.9	°C
Q	---	---	16.7	Lpm

QCV 0.47 %

Max overheat 4.7 °C
occured 07-may 12:50:46

Timer Information:

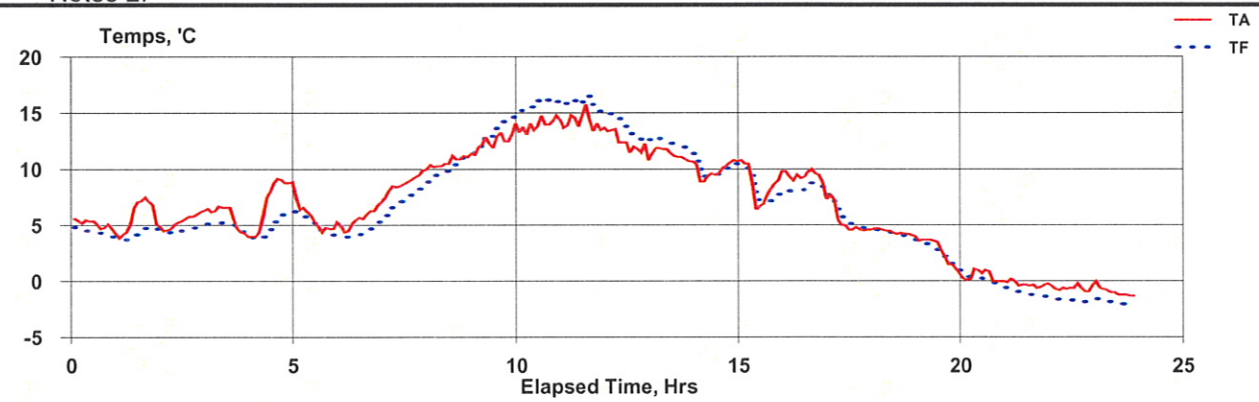
	Date dd-mmm	Time hh:mm:ss
Start:	16-06-may	0:00:08
Stop:	16-07-may	0:00:05

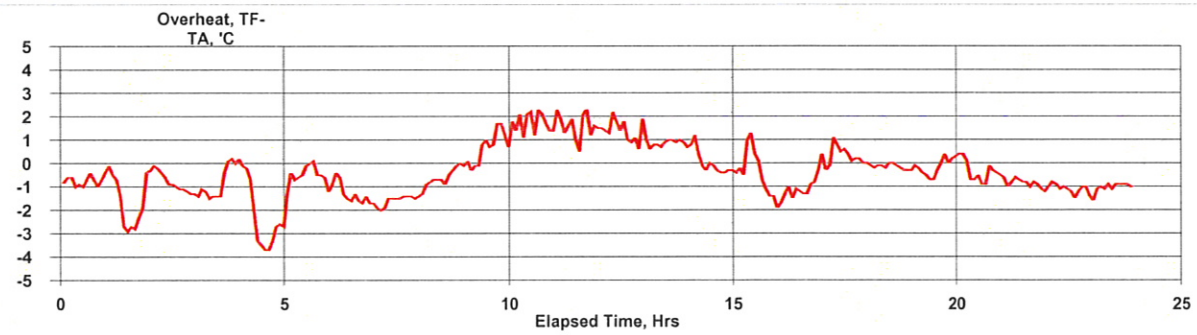
ET: 23:59

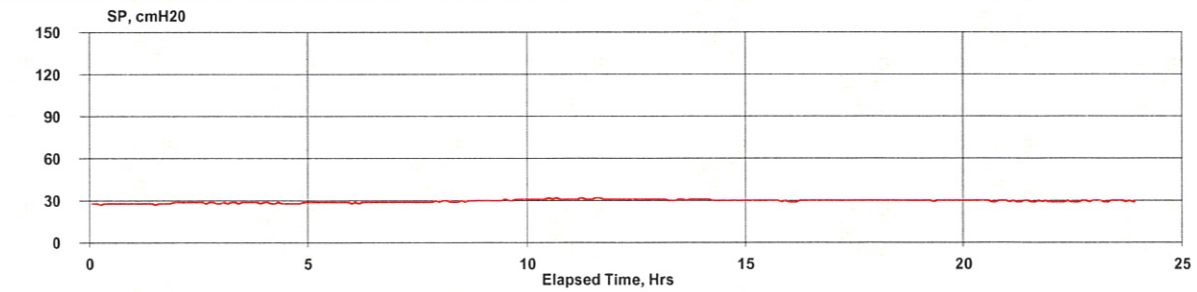
Mass Concentration Data:

Filter ID:	30	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.033	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-06-may	0:05:08	586	5.1	4.4	-0.7	28	16.71
16-06-may	1:05:08	586	5.8	4.3	-1.6	28	16.71
16-06-may	2:05:08	586	5.4	4.6	-0.8	29	16.70
16-06-may	3:05:08	586	5.7	4.9	-0.8	29	16.70
16-06-may	4:05:08	586	7.3	4.9	-2.4	28	16.70
16-06-may	5:05:08	586	5.6	5.0	-0.5	29	16.71
16-06-may	6:05:08	586	5.7	4.4	-1.3	29	16.71
16-06-may	7:05:08	586	8.9	7.3	-1.6	29	16.71
16-06-may	8:05:08	586	10.7	10.2	-0.6	30	16.71
16-06-may	9:05:08	586	12.6	13.3	0.7	30	16.70
16-06-may	10:05:08	586	14.0	15.7	1.7	31	16.70
16-06-may	11:05:08	586	14.2	15.8	1.6	31	16.70
16-06-may	12:05:08	586	12.3	13.7	1.4	31	16.69
16-06-may	13:05:08	585	11.3	12.2	0.9	31	16.70
16-06-may	14:05:08	585	9.9	9.9	0.0	30	16.71
16-06-may	15:05:08	585	8.7	8.3	-0.4	30	16.70
16-06-may	16:05:08	585	9.3	8.2	-1.0	30	16.70
16-06-may	17:05:08	586	5.2	5.5	0.3	30	16.70
16-06-may	18:05:08	586	4.4	4.2	-0.2	30	16.71
16-06-may	19:05:08	586	2.6	2.5	-0.2	30	16.71
16-06-may	20:05:08	586	0.4	0.1	-0.3	30	16.70
16-06-may	21:05:08	586	-0.3	-1.1	-0.9	29	16.70
16-06-may	22:05:08	586	-0.6	-1.7	-1.1	29	16.71
16-06-may	23:05:08	586	-0.9	-2.0	-1.0	30	16.70

BGI PQ200 Air Sampling System

Downloaded 2016 13 may 08:04:17

Job Details:

Job Name:	16May13E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	430:43
Flags:	

Job Code:	
Site Name:	2398E
Station Code:	
Operators:	
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	596	593	594	mmHg
TA	22.8	0.9	12.1	°C
Q	---	---	16.7	Lpm

QCV	0.46 %
Max overheat	3.3 °C
occured	12-may 16:18:20

Timer Information:

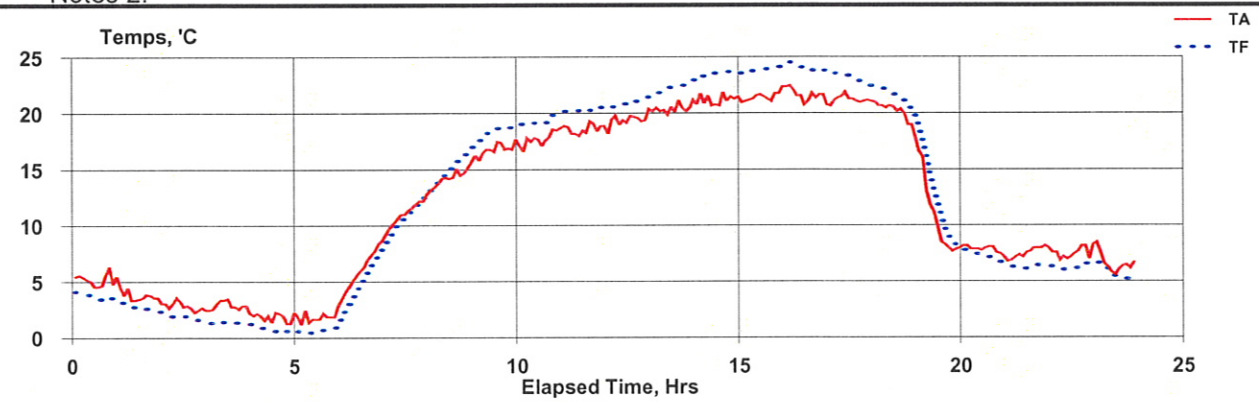
	Date dd-mmm	Time hh:mm:ss
Start:	16-12-may	0:00:08
Stop:	16-13-may	0:00:04
ET:	23:59	

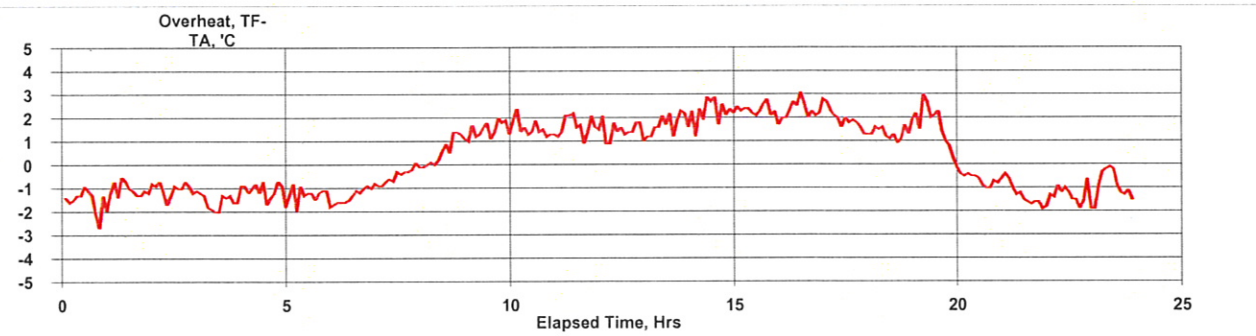
Mass Concentration Data:

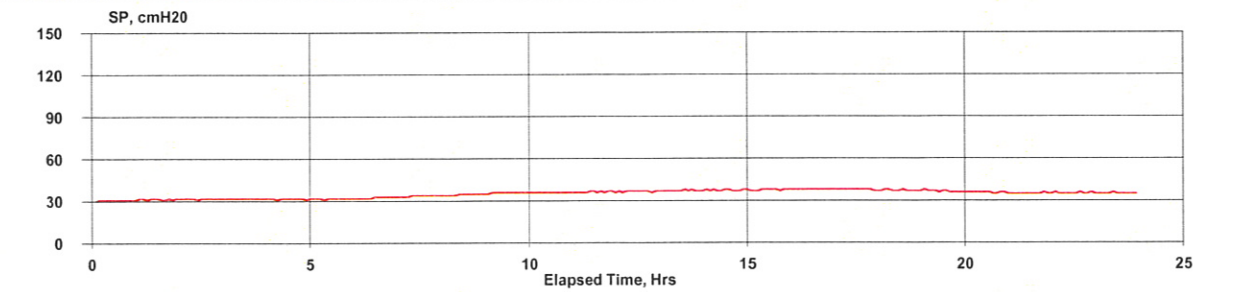
Filter ID:		
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.034	m^3
Mass Conc:	0	ug/m3

Notes 1:

Notes 2:







16-12-may	0:05:08	594	5.3	3.7	-1.5	31	16.71
16-12-may	1:05:08	594	3.7	2.7	-1.0	32	16.70
16-12-may	2:05:08	594	2.9	1.8	-1.1	32	16.70
16-12-may	3:05:08	594	2.9	1.4	-1.5	32	16.71
16-12-may	4:05:08	595	1.9	0.8	-1.1	32	16.70
16-12-may	5:05:08	595	1.9	0.6	-1.3	32	16.70
16-12-may	6:05:08	595	6.2	4.9	-1.3	33	16.70
16-12-may	7:05:08	596	11.2	10.7	-0.4	34	16.71
16-12-may	8:05:08	596	14.4	15.0	0.6	35	16.71
16-12-may	9:05:08	596	16.8	18.3	1.5	36	16.71
16-12-may	10:05:08	596	17.7	19.3	1.6	36	16.70
16-12-may	11:05:08	596	18.6	20.3	1.7	36	16.69
16-12-may	12:05:08	595	19.4	20.9	1.5	37	16.71
16-12-may	13:05:08	595	20.5	22.2	1.7	37	16.71
16-12-may	14:05:08	595	21.2	23.5	2.3	38	16.70
16-12-may	15:05:08	594	21.5	23.8	2.3	38	16.71
16-12-may	16:05:08	594	21.6	24.0	2.4	38	16.71
16-12-may	17:05:08	594	21.2	23.1	1.9	38	16.70
16-12-may	18:05:08	594	20.1	21.4	1.4	37	16.71
16-12-may	19:05:08	594	10.6	12.2	1.6	37	16.71
16-12-may	20:05:08	594	7.9	7.2	-0.7	36	16.70
16-12-may	21:05:08	594	7.6	6.2	-1.4	35	16.71
16-12-may	22:05:08	594	7.5	6.2	-1.3	35	16.71
16-12-may	23:05:08	594	6.6	5.7	-0.9	35	16.71

BGI PQ200 Air Sampling System Downloaded 2016 20 may 05:09:48

Job Details:

Job Name:	16May20E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	454:42
Flags:	

Job Code:	
Site Name:	2398E
Station Code:	
Operators:	KN
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	592	589	590	mmHg
TA	14.6	2.9	8.8	°C
Q	---	---	16.7	Lpm

QCV	0.49 %
Max overheat	3.2 °C
occured	19-may 11:52:19

Timer Information:

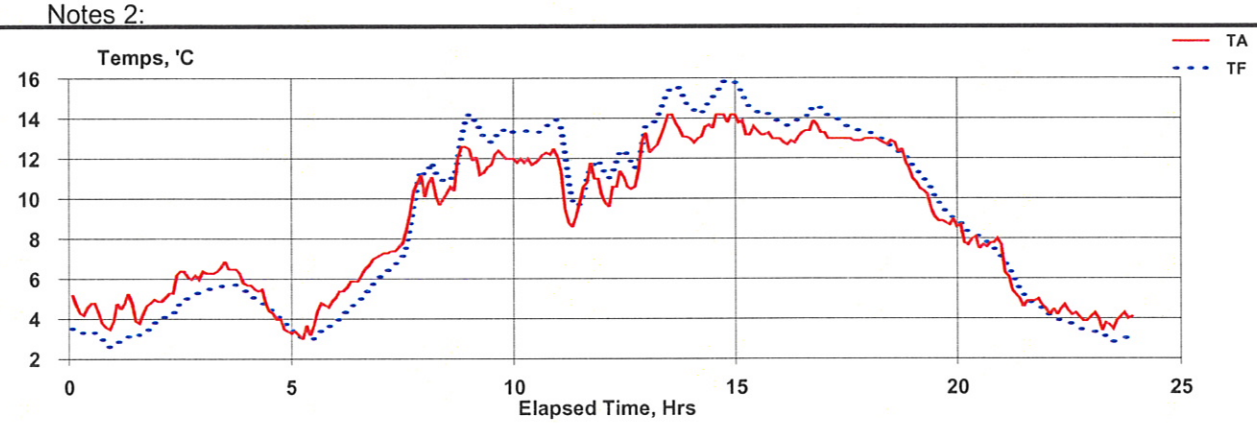
	Date dd-mmm	Time hh:mm:ss
Start:	16-18-may	0:00:08
Stop:	16-19-may	0:00:05
ET:	23:59	

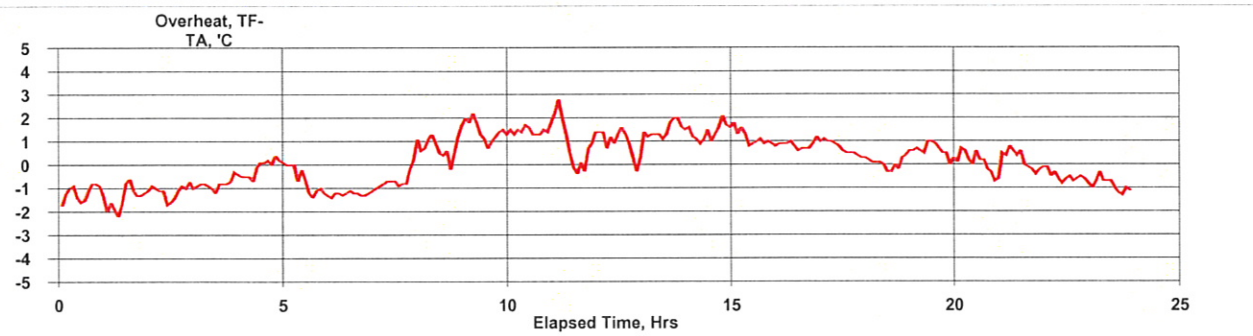
Mass Concentration Data:

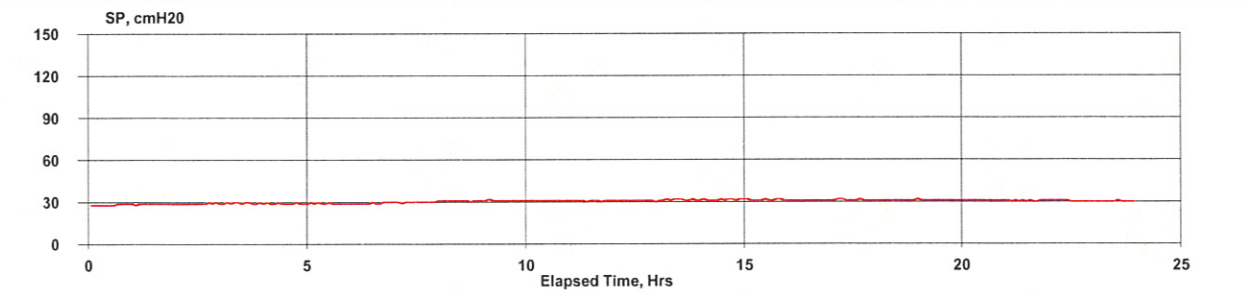
Filter ID:	8	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.037	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-18-may	0:05:08	591	4.3	3.1	-1.2	28	16.71
16-18-may	1:05:08	591	4.6	3.2	-1.4	29	16.71
16-18-may	2:05:08	591	5.9	4.7	-1.1	29	16.70
16-18-may	3:05:08	591	6.3	5.6	-0.8	30	16.71
16-18-may	4:05:08	591	4.5	4.4	-0.1	29	16.71
16-18-may	5:05:08	591	4.1	3.3	-0.7	29	16.71
16-18-may	6:05:08	591	6.2	5.0	-1.2	29	16.71
16-18-may	7:05:08	591	8.8	8.2	-0.5	30	16.71
16-18-may	8:05:08	591	11.1	11.8	0.8	31	16.71
16-18-may	9:05:08	591	11.9	13.3	1.4	31	16.70
16-18-may	10:05:08	591	12.0	13.5	1.5	31	16.71
16-18-may	11:05:08	591	10.2	11.1	0.9	31	16.70
16-18-may	12:05:08	591	11.0	12.0	0.9	31	16.71
16-18-may	13:05:08	591	13.3	14.7	1.5	31	16.70
16-18-may	14:05:08	591	13.7	15.1	1.4	32	16.69
16-18-may	15:05:08	591	13.3	14.4	1.1	31	16.70
16-18-may	16:05:08	590	13.2	14.1	0.9	31	16.71
16-18-may	17:05:08	590	13.0	13.6	0.7	31	16.69
16-18-may	18:05:08	590	12.4	12.5	0.1	31	16.71
16-18-may	19:05:08	591	9.5	10.1	0.6	31	16.70
16-18-may	20:05:08	591	7.9	7.9	0.1	31	16.70
16-18-may	21:05:08	591	5.1	5.3	0.2	31	16.71
16-18-may	22:05:08	591	4.3	3.7	-0.6	30	16.71
16-18-may	23:05:08	591	3.9	3.0	-0.9	30	16.71

BGI PQ200 Air Sampling System Downloaded 2016 25 apr 11:00:14

Job Details:

Job Name:	16Apr25E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	358:46
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	588	583	586	mmHg
TA	17.5	-3.6	7.7	°C
Q	---	---	16.7	Lpm

QCV	0.35 %
Max overheat	3.3 °C
occured	24-apr 14:14:19

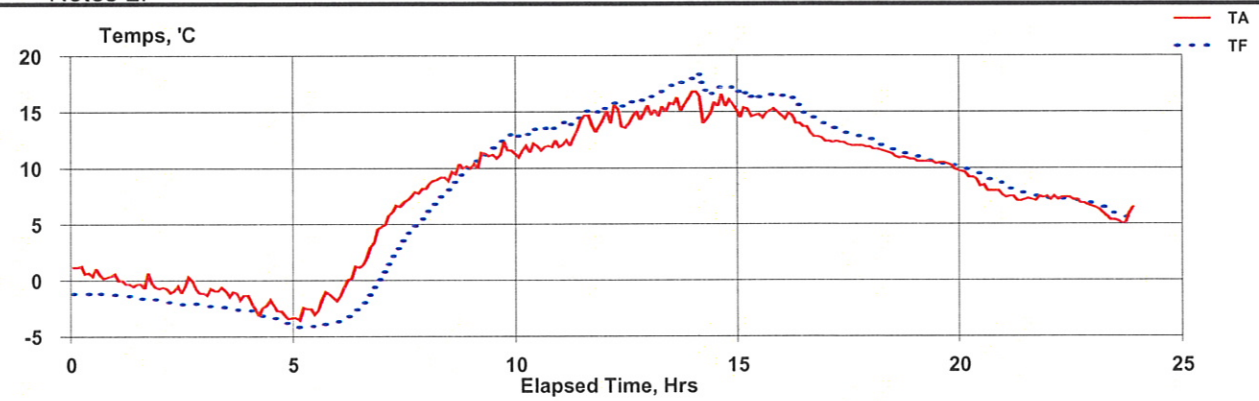
Timer Information:

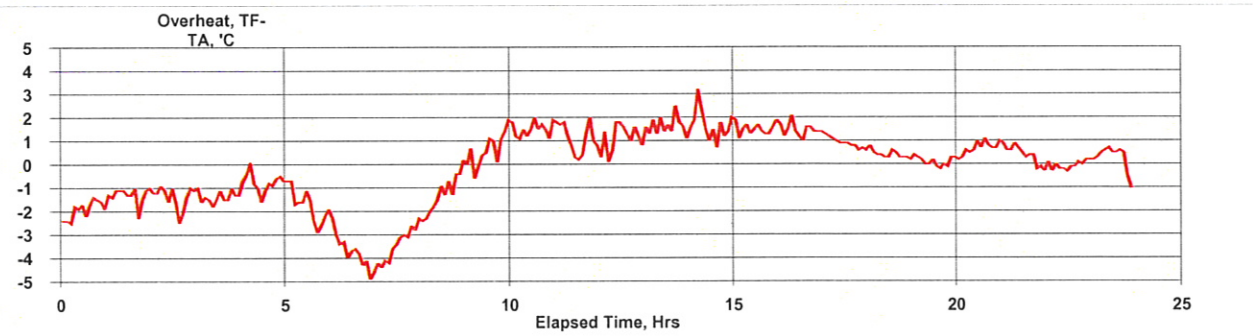
	Date dd-mmm	Time hh:mm:ss
Start:	16-24-apr	0:00:08
Stop:	16-25-apr	0:00:05
ET:	23:59	

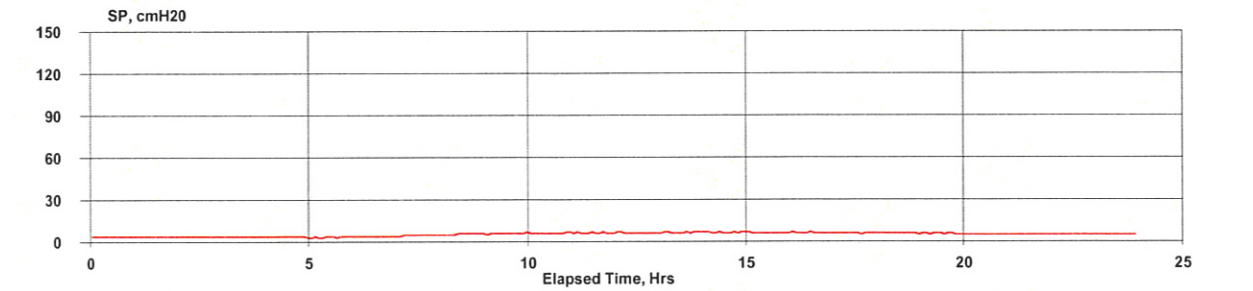
Mass Concentration Data:

Filter ID:	20	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.01	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-24-apr	0:05:08	588	0.7	-1.2	-1.9	4	16.71
16-24-apr	1:05:08	588	-0.3	-1.6	-1.3	4	16.70
16-24-apr	2:05:08	588	-0.7	-2.1	-1.4	4	16.71
16-24-apr	3:05:08	587	-1.1	-2.5	-1.4	4	16.71
16-24-apr	4:05:08	587	-2.6	-3.4	-0.8	4	16.71
16-24-apr	5:05:08	587	-2.3	-4.0	-1.7	4	16.71
16-24-apr	6:05:08	587	1.7	-2.1	-3.8	4	16.69
16-24-apr	7:05:08	588	7.0	3.6	-3.4	5	16.71
16-24-apr	8:05:08	588	9.5	8.2	-1.2	6	16.72
16-24-apr	9:05:08	588	11.2	11.8	0.6	6	16.71
16-24-apr	10:05:08	588	11.8	13.3	1.5	6	16.69
16-24-apr	11:05:08	587	13.5	14.6	1.1	6	16.67
16-24-apr	12:05:08	587	14.7	15.8	1.1	6	16.70
16-24-apr	13:05:08	586	15.6	17.2	1.6	7	16.70
16-24-apr	14:05:08	586	15.6	17.3	1.7	7	16.71
16-24-apr	15:05:08	586	14.9	16.4	1.5	6	16.70
16-24-apr	16:05:08	586	13.6	15.1	1.5	6	16.69
16-24-apr	17:05:08	585	12.1	13.0	0.9	6	16.71
16-24-apr	18:05:08	585	11.2	11.6	0.4	6	16.70
16-24-apr	19:05:08	585	10.4	10.5	0.1	6	16.70
16-24-apr	20:05:08	585	8.6	9.3	0.7	5	16.72
16-24-apr	21:05:08	585	7.3	7.7	0.4	5	16.69
16-24-apr	22:05:08	584	7.1	7.1	0.0	5	16.71
16-24-apr	23:05:08	583	5.8	6.0	0.3	5	16.70

BGI PQ200 Air Sampling System Downloaded 2016 06 jun 14:28:52

Job Details:

Job Name:	16Jun06E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	526:39
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	593	589	591	mmHg
TA	33	9.6	21.7	°C
Q	---	---	16.7	Lpm

QCV	0.42 %
Max overheat	3.5 °C
occured	05-jun 19:41:10

Timer Information:

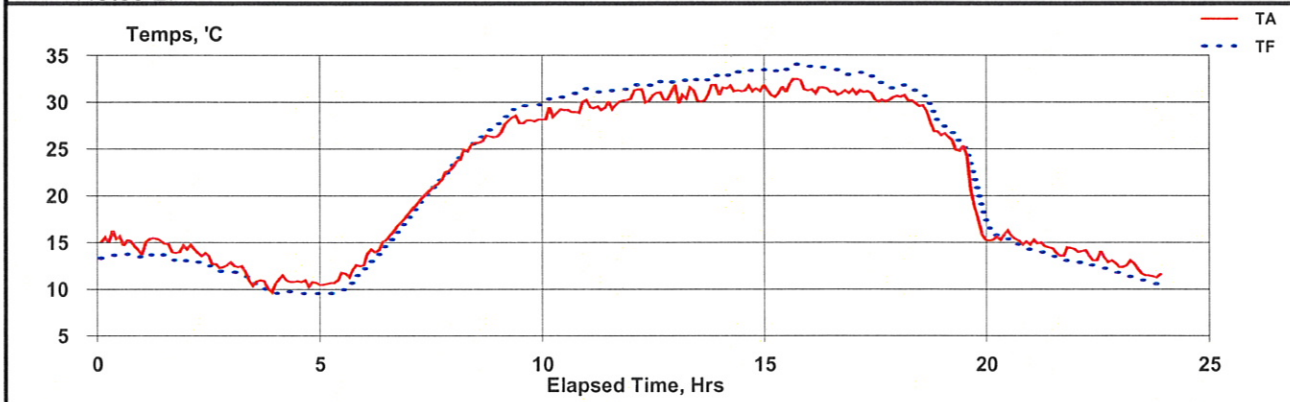
	Date dd-mmm	Time hh:mm:ss
Start:	16-05-jun	0:00:08
Stop:	16-06-jun	0:00:05
ET:	23:59	

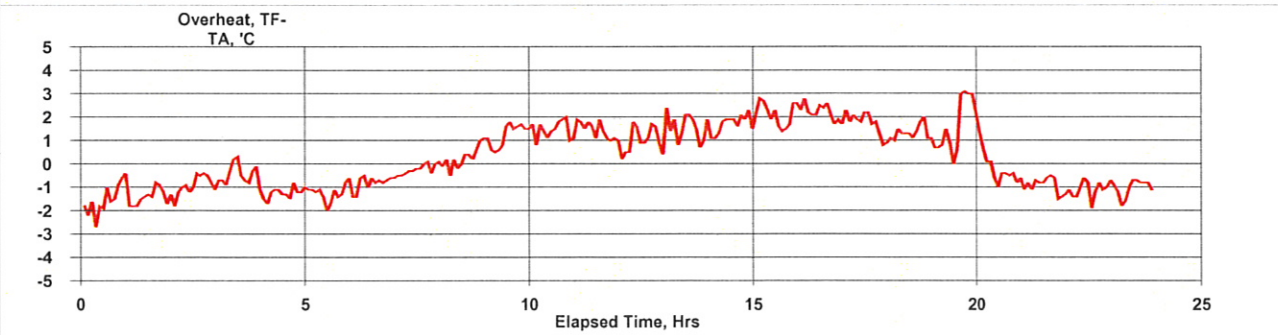
Mass Concentration Data:

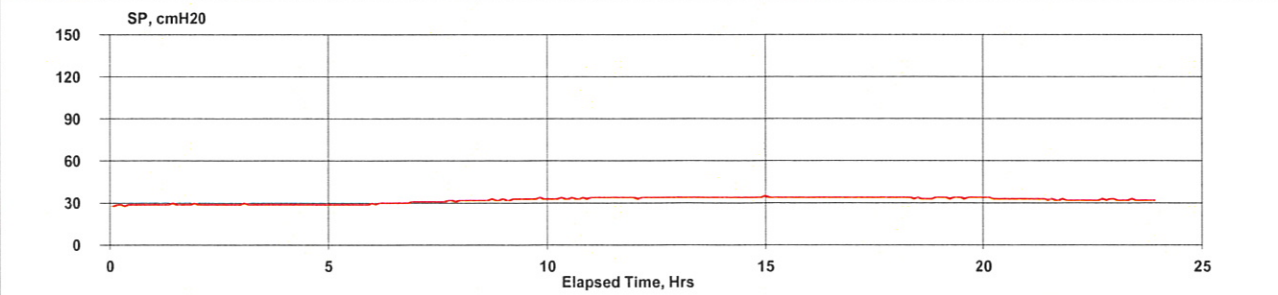
Filter ID:	20	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.035	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-05-jun	0:05:08	593	15.1	13.6	-1.5	29	16.71
16-05-jun	1:05:08	593	14.8	13.4	-1.4	29	16.70
16-05-jun	2:05:08	593	13.3	12.4	-0.9	29	16.71
16-05-jun	3:05:08	593	11.1	10.7	-0.5	29	16.71
16-05-jun	4:05:08	593	10.9	9.6	-1.2	29	16.70
16-05-jun	5:05:08	593	11.5	10.3	-1.2	29	16.71
16-05-jun	6:05:08	593	15.7	14.9	-0.8	30	16.70
16-05-jun	7:05:08	593	20.9	20.7	-0.2	31	16.70
16-05-jun	8:05:08	593	25.5	25.8	0.3	32	16.70
16-05-jun	9:05:08	593	28.0	29.2	1.2	33	16.71
16-05-jun	10:05:08	593	29.2	30.6	1.5	33	16.70
16-05-jun	11:05:08	592	29.8	31.2	1.4	34	16.70
16-05-jun	12:05:08	592	30.9	31.9	1.0	34	16.71
16-05-jun	13:05:08	592	30.8	32.4	1.6	34	16.70
16-05-jun	14:05:08	591	31.5	33.2	1.7	34	16.70
16-05-jun	15:05:08	591	31.6	33.7	2.1	34	16.71
16-05-jun	16:05:08	590	31.2	33.4	2.2	34	16.71
16-05-jun	17:05:08	589	30.7	32.4	1.7	34	16.72
16-05-jun	18:05:08	589	29.0	30.4	1.3	34	16.70
16-05-jun	19:05:08	590	22.2	23.8	1.6	34	16.69
16-05-jun	20:05:08	590	15.4	15.2	-0.2	33	16.71
16-05-jun	21:05:08	590	14.4	13.5	-0.9	33	16.71
16-05-jun	22:05:08	590	13.4	12.3	-1.1	32	16.71
16-05-jun	23:05:08	590	12.0	11.0	-1.0	32	16.71

BGI PQ200 Air Sampling System Downloaded 2016 14 jun 14:28:43

Job Details:

Job Name: 16Jun14E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 550:38
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy
User2: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy

	Max	Min	Avg	Units
BP	593	590	592	mmHg
TA	24.1	9.3	16.2	°C
Q	---	---	16.7	Lpm

QCV 0.47 %

Max overheat 5.1 °C
occured 12-jun 21:04:01

Timer Information:

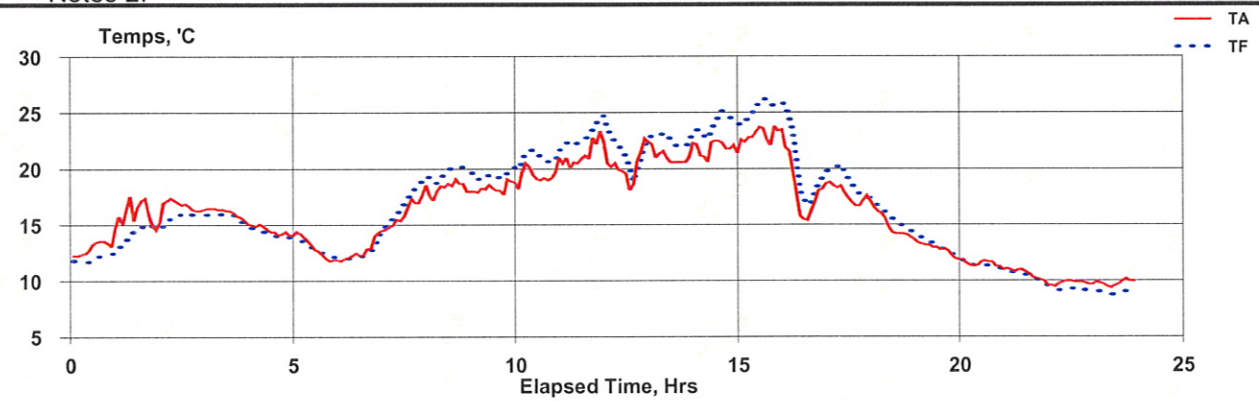
	Date dd-mmm	Time hh:mm:ss
Start:	16-11-jun	0:00:08
Stop:	16-12-jun	0:00:04

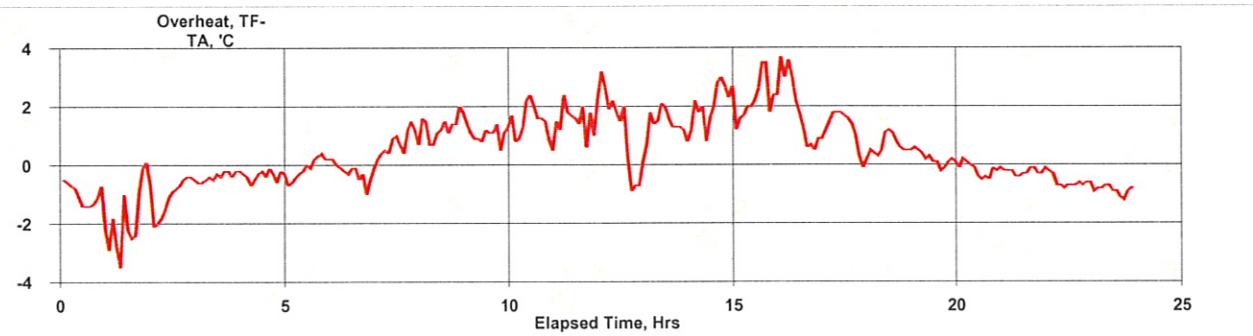
ET: 23:59

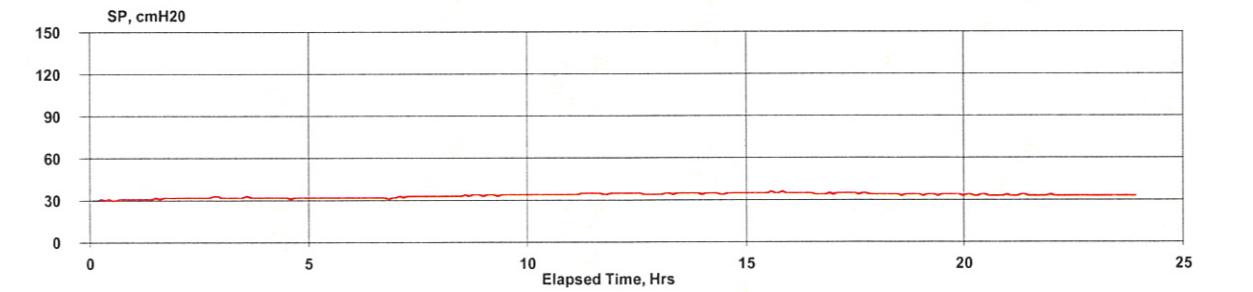
Mass Concentration Data:

Filter ID:	25	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.035	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-11-jun	0:05:08	592	13.1	12.0	-1.1	31	16.70
16-11-jun	1:05:08	592	16.0	14.3	-1.7	32	16.70
16-11-jun	2:05:08	592	16.8	15.7	-1.1	32	16.71
16-11-jun	3:05:08	592	16.1	15.7	-0.4	32	16.70
16-11-jun	4:05:08	592	14.5	14.2	-0.4	32	16.70
16-11-jun	5:05:08	592	12.9	12.8	-0.1	32	16.70
16-11-jun	6:05:08	592	12.8	12.6	-0.3	32	16.70
16-11-jun	7:05:08	592	16.3	17.0	0.8	33	16.71
16-11-jun	8:05:08	592	18.3	19.6	1.3	33	16.71
16-11-jun	9:05:08	592	18.3	19.4	1.1	34	16.70
16-11-jun	10:05:08	593	19.5	21.0	1.5	34	16.71
16-11-jun	11:05:08	593	21.4	23.0	1.6	35	16.70
16-11-jun	12:05:08	593	20.4	21.5	1.1	35	16.70
16-11-jun	13:05:08	593	21.1	22.5	1.4	35	16.71
16-11-jun	14:05:08	593	21.8	23.9	2.1	35	16.71
16-11-jun	15:05:08	592	23.1	25.3	2.2	35	16.71
16-11-jun	16:05:08	592	18.0	19.9	1.9	35	16.70
16-11-jun	17:05:08	592	17.6	18.8	1.2	35	16.71
16-11-jun	18:05:08	592	14.8	15.5	0.7	34	16.71
16-11-jun	19:05:08	592	12.8	13.0	0.2	34	16.70
16-11-jun	20:05:08	592	11.5	11.3	-0.2	33	16.70
16-11-jun	21:05:08	593	10.5	10.3	-0.2	33	16.71
16-11-jun	22:05:08	592	9.8	9.2	-0.6	33	16.71
16-11-jun	23:05:08	592	9.8	8.9	-0.9	33	16.70

BGI PQ200 Air Sampling System Downloaded 2016 20 jun 10:26:34

Job Details:

Job Name: 16Jun20E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 574:37
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	595	591	593	mmHg
TA	27.6	4.9	16.4	°C
Q	---	---	16.7	Lpm

QCV 0.47 %
Max overheat 4.9 °C
occured 18-jun 20:04:47

Timer Information:

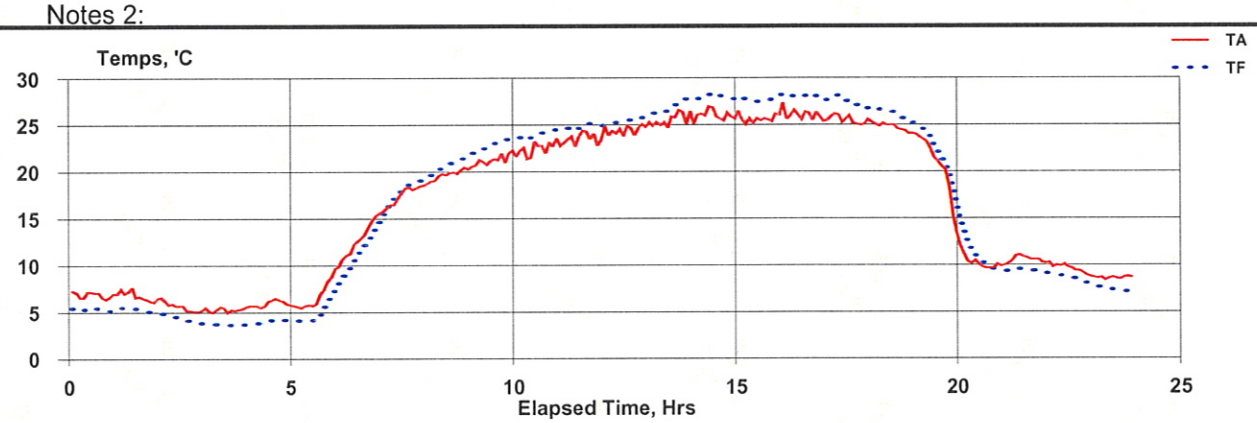
	Date dd-mmm	Time hh:mm:ss
Start:	16-17-jun	0:00:08
Stop:	16-18-jun	0:00:05

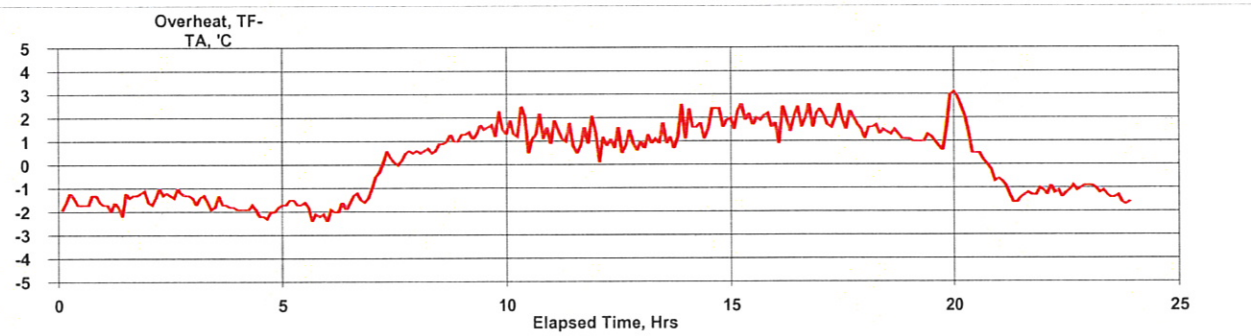
ET: 23:59

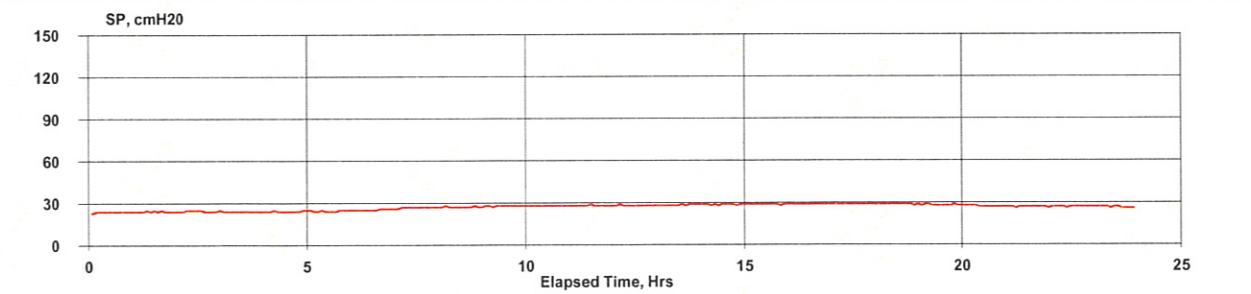
Mass Concentration Data:

Filter ID:	31	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.034	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-17-jun	0:05:08	593	6.9	5.3	-1.6	24	16.71
16-17-jun	1:05:08	592	6.8	5.3	-1.5	24	16.71
16-17-jun	2:05:08	592	5.6	4.3	-1.3	25	16.71
16-17-jun	3:05:08	593	5.3	3.7	-1.7	24	16.70
16-17-jun	4:05:08	593	6.0	4.0	-2.0	24	16.71
16-17-jun	5:05:08	593	6.8	4.9	-1.9	25	16.71
16-17-jun	6:05:08	594	12.8	11.2	-1.6	25	16.71
16-17-jun	7:05:08	594	17.5	17.7	0.2	27	16.71
16-17-jun	8:05:08	594	19.7	20.6	0.9	27	16.71
16-17-jun	9:05:08	594	21.3	22.8	1.5	28	16.70
16-17-jun	10:05:08	594	22.5	24.0	1.5	28	16.70
16-17-jun	11:05:08	594	23.5	24.8	1.3	28	16.70
16-17-jun	12:05:08	594	24.5	25.4	0.9	28	16.70
16-17-jun	13:05:08	594	25.6	26.8	1.2	28	16.71
16-17-jun	14:05:08	594	26.0	27.9	1.9	29	16.70
16-17-jun	15:05:08	594	25.7	27.7	2.0	29	16.71
16-17-jun	16:05:08	594	26.1	28.1	2.0	29	16.69
16-17-jun	17:05:08	593	25.6	27.4	1.8	29	16.71
16-17-jun	18:05:08	594	24.8	26.1	1.4	29	16.70
16-17-jun	19:05:08	594	20.6	22.0	1.4	28	16.70
16-17-jun	20:05:08	594	10.3	11.0	0.8	27	16.71
16-17-jun	21:05:08	594	10.6	9.3	-1.2	27	16.70
16-17-jun	22:05:08	594	9.6	8.5	-1.1	27	16.70
16-17-jun	23:05:08	594	8.6	7.3	-1.3	27	16.70

BGI PQ200 Air Sampling System Downloaded 2016 24 jun 11:36:43

Job Details:

Job Name:	16Jun24E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	598:36
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	594	591	592	mmHg
TA	32.7	10.4	21.8	°C
Q	---	---	16.7	Lpm

QCV	0.44 %
Max overheat	3.4 °C
occured	23-jun 15:42:04

Timer Information:

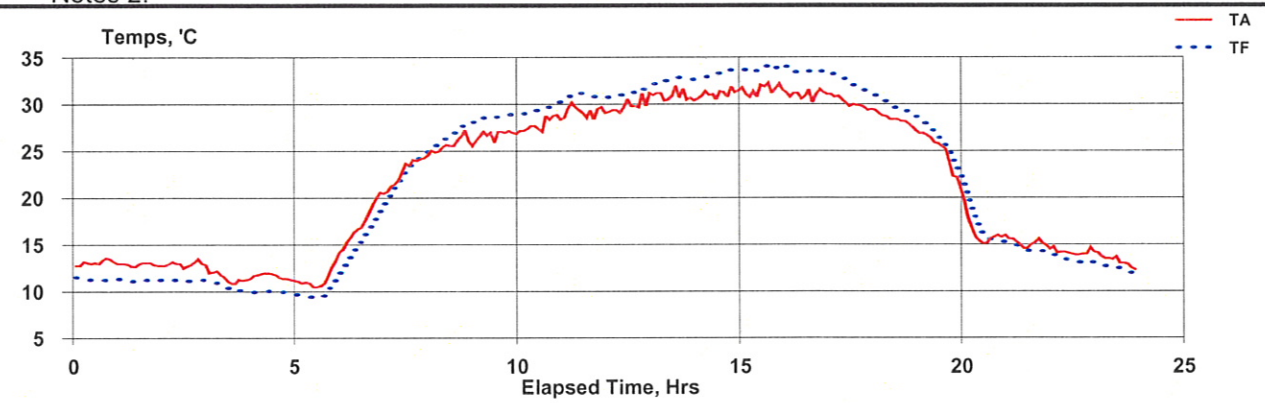
	Date dd-mmm	Time hh:mm:ss
Start:	16-23-jun	0:00:08
Stop:	16-24-jun	0:00:04
ET:	23:59	

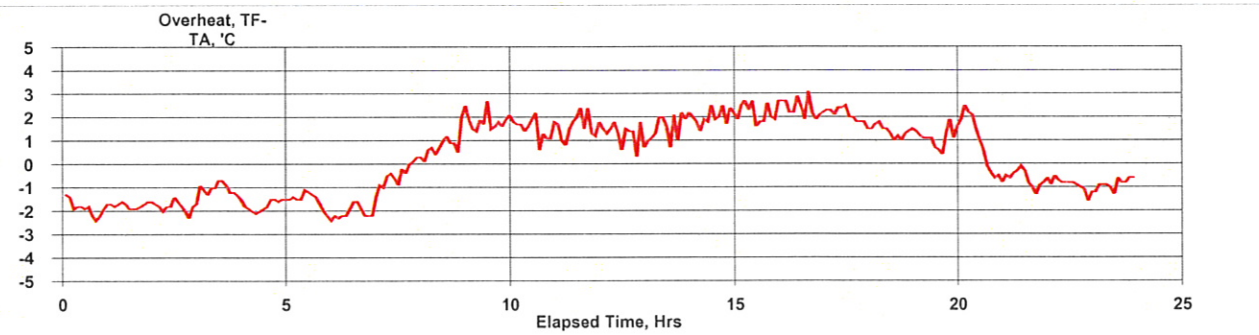
Mass Concentration Data:

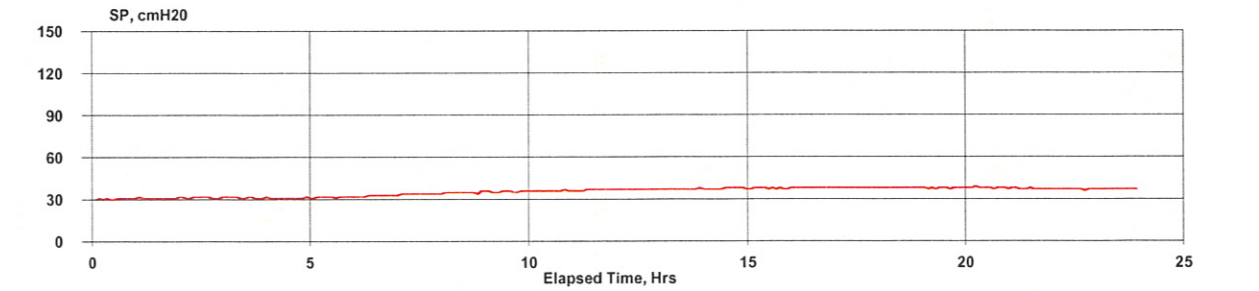
Filter ID:	8	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.035	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-23-jun	0:05:08	593	13.1	11.3	-1.9	31	16.69
16-23-jun	1:05:08	593	12.9	11.2	-1.7	31	16.69
16-23-jun	2:05:08	593	13.0	11.2	-1.8	32	16.70
16-23-jun	3:05:08	593	11.5	10.4	-1.1	32	16.71
16-23-jun	4:05:08	593	11.7	9.9	-1.8	31	16.70
16-23-jun	5:05:08	593	11.5	9.9	-1.6	32	16.71
16-23-jun	6:05:08	594	17.7	15.7	-2.0	33	16.71
16-23-jun	7:05:08	594	23.1	22.7	-0.4	34	16.70
16-23-jun	8:05:08	594	25.8	26.7	1.0	35	16.70
16-23-jun	9:05:08	594	26.8	28.6	1.8	36	16.70
16-23-jun	10:05:08	594	27.9	29.4	1.5	36	16.71
16-23-jun	11:05:08	594	29.3	30.9	1.6	37	16.71
16-23-jun	12:05:08	594	29.9	31.2	1.3	37	16.71
16-23-jun	13:05:08	593	30.9	32.5	1.6	37	16.71
16-23-jun	14:05:08	593	31.1	33.2	2.0	38	16.70
16-23-jun	15:05:08	592	31.6	33.8	2.2	38	16.70
16-23-jun	16:05:08	592	31.1	33.5	2.4	38	16.71
16-23-jun	17:05:08	592	30.1	32.2	2.1	38	16.70
16-23-jun	18:05:08	592	28.4	29.8	1.4	38	16.70
16-23-jun	19:05:08	592	24.9	26.0	1.1	38	16.70
16-23-jun	20:05:08	592	16.2	17.0	0.8	38	16.70
16-23-jun	21:05:08	592	15.1	14.5	-0.6	37	16.70
16-23-jun	22:05:08	593	14.2	13.3	-0.9	37	16.71
16-23-jun	23:05:08	593	13.2	12.4	-0.9	37	16.70

BGI PQ200 Air Sampling System Downloaded 2016_01 jul_16:23:23

Job Details:

Job Name:	16Jul01E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	622:35
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy
User2:	yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy

	Max	Min	Avg	Units
BP	596	592	594	mmHg
TA	31.9	11.7	20.9	°C
Q	---	---	16.7	Lpm

QCV	0.46	%
Max overheat	4.4	°C
occured	30-jun 15:22:36	

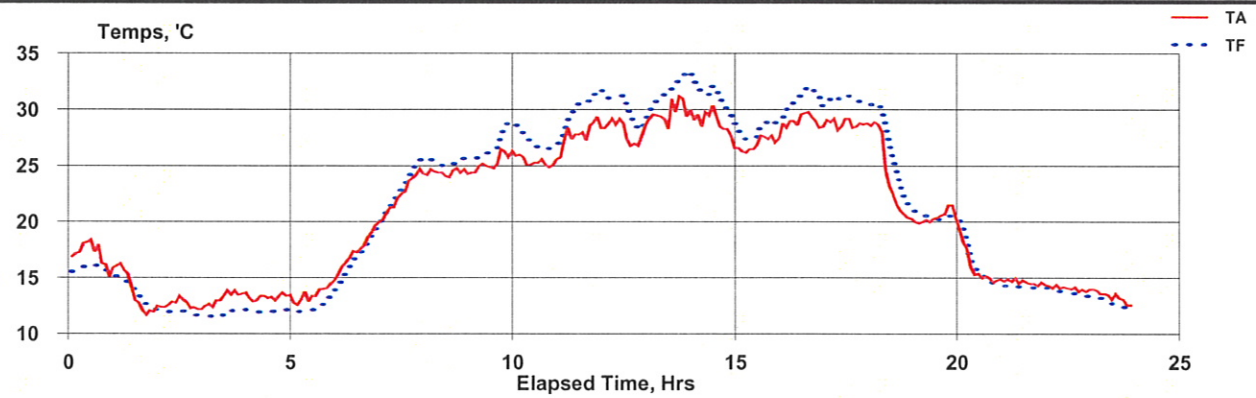
Timer Information:

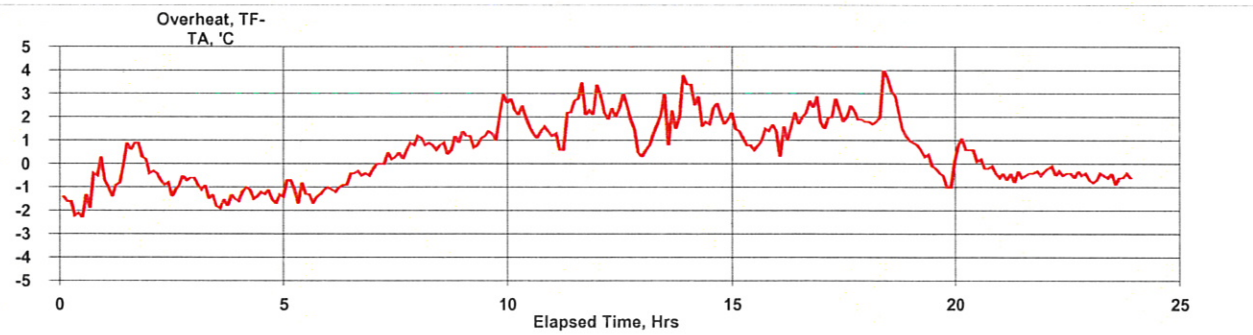
	Date dd-mmm	Time hh:mm:ss
Start:	16-29-jun	0:00:08
Stop:	16-30-jun	0:00:05
ET:	23:59	

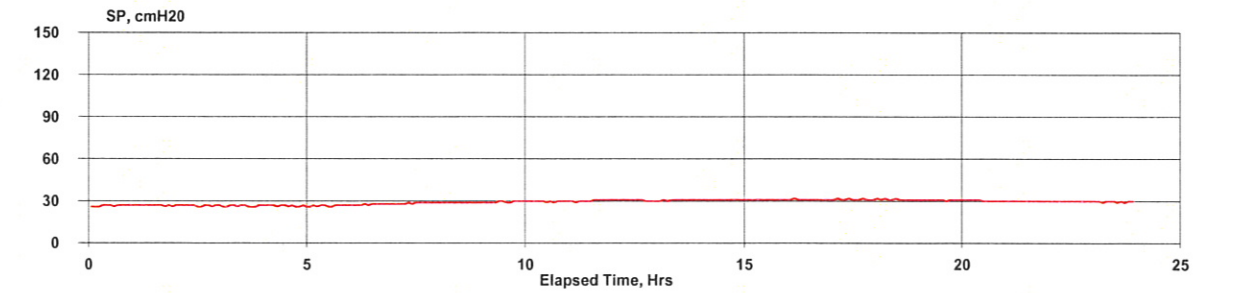
Mass Concentration Data:

Filter ID:	32	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.034	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-29-jun	0:05:08	595	17.1	15.8	-1.3	27	16.70
16-29-jun	1:05:08	595	13.7	13.6	-0.1	27	16.70
16-29-jun	2:05:08	595	12.6	11.9	-0.7	27	16.71
16-29-jun	3:05:08	594	13.3	11.8	-1.4	27	16.70
16-29-jun	4:05:08	594	13.3	12.0	-1.3	27	16.70
16-29-jun	5:05:08	595	13.6	12.4	-1.2	27	16.71
16-29-jun	6:05:08	595	17.7	17.0	-0.6	28	16.70
16-29-jun	7:05:08	595	22.6	23.1	0.4	29	16.70
16-29-jun	8:05:08	596	24.4	25.3	0.9	29	16.71
16-29-jun	9:05:08	596	25.3	26.8	1.5	30	16.70
16-29-jun	10:05:08	596	25.4	27.2	1.8	30	16.70
16-29-jun	11:05:08	595	27.9	30.1	2.2	30	16.70
16-29-jun	12:05:08	595	28.1	30.1	2.0	31	16.71
16-29-jun	13:05:08	594	29.8	31.7	1.9	31	16.71
16-29-jun	14:05:08	594	28.8	31.0	2.2	31	16.70
16-29-jun	15:05:08	593	27.0	28.2	1.2	31	16.70
16-29-jun	16:05:08	593	29.0	30.9	1.9	31	16.70
16-29-jun	17:05:08	593	28.8	30.9	2.1	31	16.70
16-29-jun	18:05:08	593	24.0	26.3	2.2	31	16.69
16-29-jun	19:05:08	593	20.5	20.4	0.0	31	16.71
16-29-jun	20:05:08	595	15.9	16.2	0.2	30	16.71
16-29-jun	21:05:08	594	14.6	14.2	-0.5	30	16.70
16-29-jun	22:05:08	594	14.1	13.7	-0.4	30	16.71
16-29-jun	23:05:08	594	13.3	12.8	-0.6	30	16.71

APPENDIX C

Precision and Single-Point Flow Rate Checks

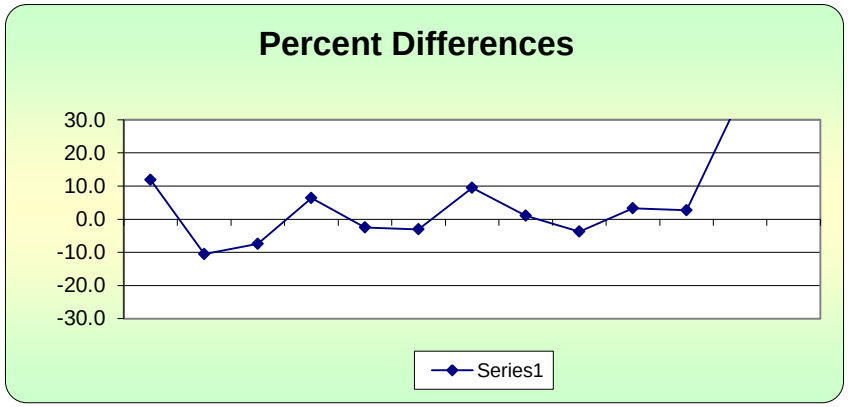
Alton Coal Development, LLC - Coal Hollow Mine

Precision Estimate (From Collocated Samples)

Monitors 963B & 964C		Pollutant type:					CV_{ub} (%)
Meas Val (Y)	**Audit Val (X)**	**d (Eqn 10)**	**25th Percentile**	**d^2**	**|d|**	**$\|d\|^2$**	
8	7.1	11.9	-3.058	142.099	11.921	142.099	
7.2	8	-10.5	**75th Percentile**	110.803	10.526	110.803	
18.2	19.6	-7.4	9.469	54.870	7.407	54.870	
17.7	16.6	6.4		41.139	6.414	41.139	
59.5	61	-2.5		6.198	2.490	6.198	
16.1	16.6	-3.1		9.352	3.058	9.352	
36.5	33.2	9.5		89.665	9.469	89.665	
9.2	9.1	1.1		1.194422	1.093	1.194	
10.5	10.9	-3.7		13.975	3.738	13.975	
12.2	11.8	3.3		11.11111	3.333	11.111	
44.9	43.7	2.7		7.338	2.709	7.338	
62.9	43.5	36.5		1329.781	36.466	1329.781	
61.5	33.3	59.5		3539.497	59.494	3539.497	

n	**$\sum\|d\|$**	**$\sum\|d\|^2$**
13	158.118	5357.023
n-1	**$\sum d$**	**$\sum d^2$**
12	103.679	5357.023

CV (%) (Eqn 11)
18.96



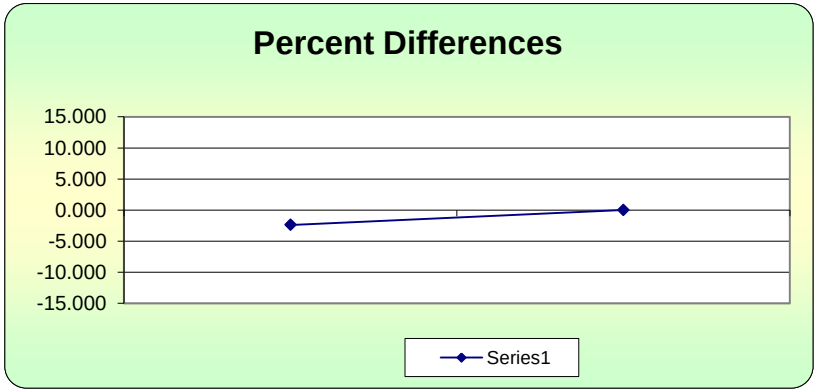
Alton Coal Development, LLC - Coal Hollow Mine

One-Point Flow Rate Bias Estimate

Site ID: Monitor 962A		Pollutant type:					Bias (%)
Meas Val (Y)	**Audit Val (X)**	**d (Eqn. 1)**	**25th Percentile**	**d^2**	**|d|**	**$\|d\|^2$**	
16.7	16.84	-0.831	-2.005	0.691	0.831	0.691	
16.7	17.11	-2.396	**75th Percentile**	5.742	2.396	5.742	
			-1.223				

n	**$\sum\|d\|$**	**"AB" (Eqn 4)**
2	3.228	1.614
n-1	**$\sum\|d\|^2$**	**"AS" (Eqn 5)**
1	6.433	1.107

Bias (%) (Eqn 3)	Both Signs Positive
6.55	FALSE
Signed Bias (%)	Both Signs Negative
-6.55	TRUE



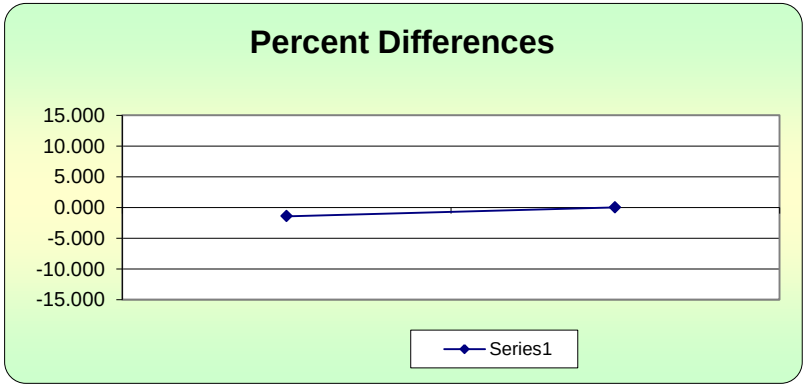
Alton Coal Development, LLC - Coal Hollow Mine

One-Point Flow Rate Bias Estimate

Site ID: Monitor 963B		Pollutant type:					Bias (%)
Meas Val (Y)	**Audit Val (X)**	**d (Eqn. 1)**	**25th Percentile**	**d^2**	**|d|**	**$\|d\|^2$**	
16.7	16.72	-0.120	-1.092	0.014	0.120	0.014	
16.7	16.94	-1.417	**75th Percentile**	2.007	1.417	2.007	
			-0.444				

n	**$\sum\|d\|$**	**"AB" (Eqn 4)**
2	1.536	0.768
n-1	**$\sum\|d\|^2$**	**"AS" (Eqn 5)**
1	2.022	0.917

Bias (%) (Eqn 3) 4.86	Both Signs Positive FALSE
Signed Bias (%) -4.86	Both Signs Negative TRUE



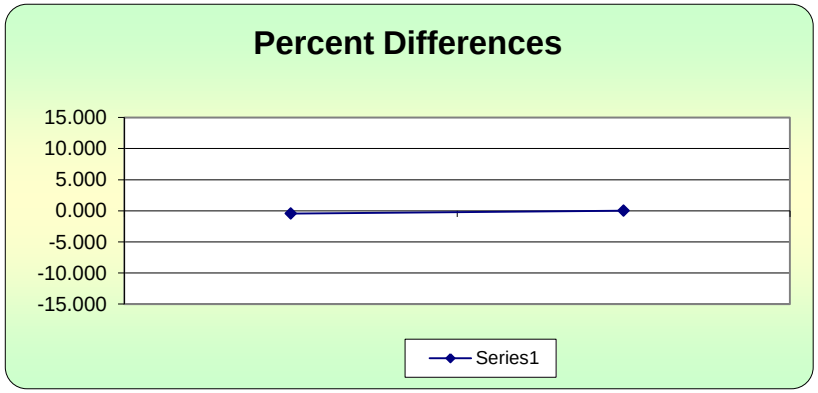
Alton Coal Development, LLC - Coal Hollow Mine

One-Point Flow Rate Bias Estimate

Site ID: Monitor 964C		Pollutant type:					Bias (%)
Meas Val (Y)	**Audit Val (X)**	**d (Eqn. 1)**	**25th Percentile**	**d^2**	**|d|**	**$\|d\|^2$**	
16.7	16.26	2.706	0.319	7.323	2.706	7.323	
16.7	16.78	-0.477	**75th Percentile**	0.227	0.477	0.227	
			1.910				

n	**$\sum\|d\|$**	**"AB" (Eqn 4)**
2	3.183	1.591
n-1	**$\sum\|d\|^2$**	**"AS" (Eqn 5)**
1	7.550	1.576

Bias (%) (Eqn 3)	Both Signs Positive
8.63	TRUE
Signed Bias (%)	Both Signs Negative
+8.63	FALSE



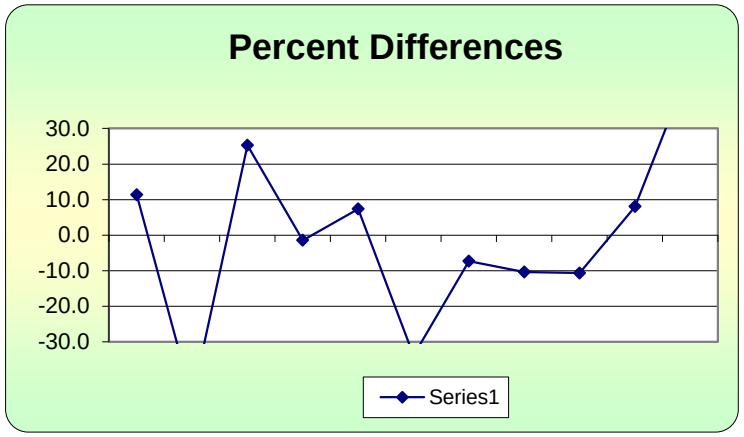
Alton Coal Development, LLC - Coal Hollow Mine - NPL

Precision Estimate (From Collocated Samples)

Monitors 963D & 964E		Pollutant type:					CV_{ub} (%)
Meas Val (Y)	**Audit Val (X)**	**d (Eqn 10)**	**25th Percentile**	**d^2**	**|d|**	**$\|d\|^2$**	
8.4	7.5	11.3	-10.514	128.159	11.321	128.159	
7.7	12.3	-46.0	**75th Percentile**	2116.000	46.000	2116.000	
10.7	8.3	25.3	9.667	638.227	25.263	638.227	
34.4	34.9	-1.4		2.082	1.443	2.082	
73.3	68.1	7.4		54.096	7.355	54.096	
24.8	34.9	-33.8		1144.864	33.836	1144.864	
10.5	11.3	-7.3		53.868	7.339	53.868	
24.7	27.4	-10.4		107.4267	10.365	107.427	
72.8	81	-10.7		113.704	10.663	113.704	
122	112.6	8.0		64.21843	8.014	64.218	
78.6	48.4	47.6		2261.864	47.559	2261.864	

n	**$\sum\|d\|$**	**$\sum\|d\|^2$**
11	209.158	6684.510
n-1	**$\sum d$**	**$\sum d^2$**
10	-10.135	6684.510

CV (%) (Eqn 11)
26.19



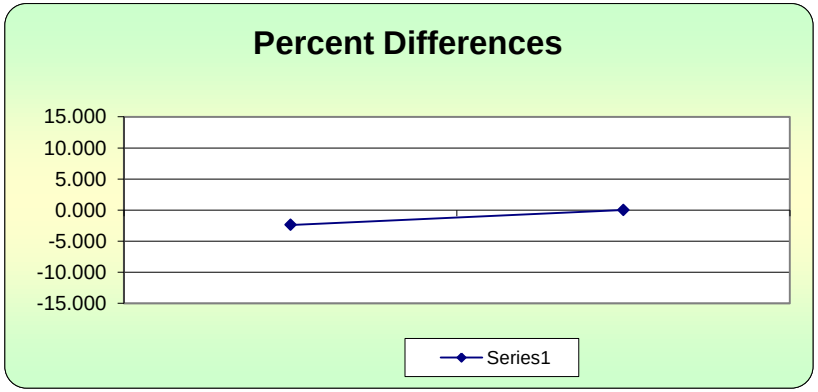
Alton Coal Development, LLC - Coal Hollow Mine

One-Point Flow Rate Bias Estimate

Site ID: Monitor 2366D		Pollutant type:					Bias (%)
Meas Val (Y)	**Audit Val (X)**	**d (Eqn. 1)**	**25th Percentile**	**d^2**	**|d|**	**$\|d\|^2$**	
16.72	16.03	4.304	0.897	18.528	4.304	18.528	
16.72	16.76	-0.239	**75th Percentile**	0.057	0.239	0.057	
			3.169				

n	**$\sum\|d\|$**	**"AB" (Eqn 4)**
2	4.543	2.272
n-1	**$\sum\|d\|^2$**	**"AS" (Eqn 5)**
1	18.585	2.875

Bias (%) (Eqn 3)	Both Signs Positive
15.11	TRUE
Signed Bias (%)	Both Signs Negative
+15.11	FALSE



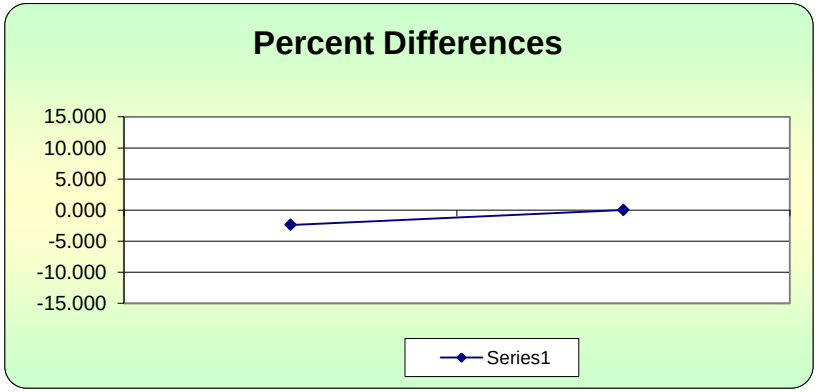
Alton Coal Development, LLC - Coal Hollow Mine

One-Point Flow Rate Bias Estimate

Site ID: Monitor 2398E		Pollutant type:					Bias (%)
Meas Val (Y)	**Audit Val (X)**	**d (Eqn. 1)**	**25th Percentile**	**d^2**	**|d|**	**$\|d\|^2$**	
16.7	16.85	-0.890	-0.978	0.792	0.890	0.792	
16.7	16.87	-1.008	**75th Percentile**	1.015	1.008	1.015	
			-0.920				

n	**$\sum\|d\|$**	**"AB" (Eqn 4)**
2	1.898	0.949
n-1	**$\sum\|d\|^2$**	**"AS" (Eqn 5)**
1	1.808	0.083

Bias (%) (Eqn 3)	Both Signs Positive
1.32	FALSE
Signed Bias (%)	Both Signs Negative
-1.32	TRUE



APPENDIX D

Field Data Sheets

Background Monitor 962A

Table I - Every 6th Day Sampling

Date	Time	Displayed Date	Displayed Time	Collected Filter ID#	New Filter ID#	Sample Start Time	Sample Start Date	Sampler Initials	
					13				
04-20-16	10:17	04-20-16	9:17	13	16	M-M	4/24/16	KN	
04-25-16	1132	04-25-16	1030	16	21	M-M	04-30-16	JKSR	
05-02-16	1051	05-02-16	0950	21	26	M-M	05-06-16	JKSR	
05-09-16	1623	05-09-16	1522	26	31	M-M	05-12-16	JKSR	T Low Battery Shutdown mouse chewed cable Repaired 9/10 KN
05-13-16	08:22	05-13-16	0722	31	4	M-M	05-16-16	KN	
05-20-16	0532	05-20-16	0431	4	9	M-M	05-23-16	KN	
05-25-16	1007	05-25-16	1006	9	13	M-M	05-30-16	JKSR	T Low Battery shutdown Repaired cable again.
05-31-16	10:39	05-31-16	0938	13	36	M-M	06-05-16	KN	
06-06-16	1439	06-06-16	1338	36	21	M-M	06-11-16	JKSR	
06-14-16	1336	06-14-16	1235	21	27	M-M	06-17-16	JKSR	
06-20-16	1041	06-20-16	0939	27	4	M-M	06-23-16	JKSR	F-code
06-24-16	1213	06-24-16	1112	4	9	M-M	06-29-16	JKSR	
07-01-16	1659	07-01-16	1558	9	13	M-M	07-05-16	JKSR	

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance
04-29-16	9:40	99	99	Pass	KN	
05-31-16	10:42	98	98	Pass	KN	

Table III - Monthly Flow Rate Verification

Date	Time	Monitor Flow (Q Lpm)	Monitor Baro Pressure (mmHg)	Delta Cal Baro Pressure (mmHg)	Monitor Temp (A)	Delta Cal Temp (Ta)	Delta Cal Flow (Qs)	Delta Cal Flow (Qa)	Accuracy	Initials
04-29-16	9:45	16.70	584	585	18.6	18.6	13.34	16.84	-0.83	KN
05-31-16	10:48	16.80	565	566	19.5	19.7	13.45	17.11	-2.4	KN

Compliance Monitor 963B

Table I - Every 6th Day Sampling

Date	Time	Displayed Date	Displayed Time	Collected Filter ID#	New Filter ID#	Sample Start Time	Sample Start Date	Sampler Initials	
				[illegible]	14				
04-20-16	10:47	04-20-16	9:46	14	17	M-M	04/24/16	KN	
04-25-16	1146	04-25-16	1045	17	22	M-M	04-30-16	JKSR	still Running
05-02-16	1108	05-02-16	1007	22	27	M-M	05-06-16	JKSR	
05-09-16	1639	05-09-16	1538	27	32	M-M	05-12-16	JKSR	
05-13-16	0846	05-13-16	0745	32	5	M-M	05-18-16	KN	
05-20-16	0549	05-20-16	0448	5	10	M-M	0524-16	KN	
05-25-16	1120	05-25-16	1019	10	15	M-M	05-30-16	JKSR	
05-31-16	1102	05-31-16	1001	15	37	1103	Field	Blank KN	
05-31-16	1107	05-31-16	1006	37	38	M-M	06/05/16	KN	
06-06-16	1456	06-06-16	1356	38	26		06-06-16	JKSR	Blank
06-06-16	1457	06-06-16	1357	26	22	M-M	06-11-16	JKSR	
06-14-16	1519	06-14-16	1418	22	28	M-M	06-17-16	JKSR	
06-20-16	1055	06-20-16	0955	28	5	M-M	06-23-16	JKSR	
06-24-16	1226	06-24-16	1125	5	10	M-M	06-29-16	JKSR	
07-01-16	1714	07-01-16	1613	10	14	M-M	07-05-16	JKSR	

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance
04-29-16	10:10	110	108	Pass	KN	
05-31-16	1111	[illegible]	110	Pass	KN	

Table III - Monthly Flow Rate Verification

Date	Time	Monitor Flow (Q Lpm)	Monitor Baro Pressure (mmHg)	Delta Cal Baro Pressure (mmHg)	Monitor Temp (A)	Delta Cal Temp (Ta)	Delta Cal Flow (Qs)	Delta Cal Flow (Qa)	Accuracy	Initials
04-29-16	10:15	16.70	591	592	20.7°C	20.8°C	13.22	16.72	-0.12	KN
5-31-16	1120	16:70	591	592	20.9	21.6	13.36	16.94	-1.47	KN

Co-located Monitor 964C

Table I - Every 6th Day Sampling

Date	Time	Displayed Date	Displayed Time	Collected Filter ID#	New Filter ID#	Sample Start Time	Sample Start Date	Sampler Initials
					15			
04-20-16	10149	04-20-16	9:48	15	18	MM	04-24-16	KN
04-25-16	1149	04-30-16	1047	18	23	M-M	04-30-16	JKSR
05-02-16	1109	05-02-16	1007	23	28	M-M	05-06-16	JKSR
05-09-16	1640	05-09-16	1538	28	33	M-M	05-12-16	JKSR
05-13-16	0850	05-13-16	0748	33	6	M-M	05-18-16	KN
05-20-16	0554	05-20-16	0452	6	11	M-M	05-24-16	KN
05-25-16	1121	05-25-16	1019	11	16	M-M	05-30-16	JKSR
05-31-16	1125	05-31-16	1023	16	17	M-M	06-05-16	KN
06-06-16	1459	06-06-16	1357	17	23	M-M	06-11-16	JKSR
06-14-16	1520	06-14-16	1417	23	29	MM	06-17-16	JKSR
06-20-16	1054	06-20-16	0951	29	Blank 34	1054	06-20-16	JKSR
06-20-16	1058	06-20-16	0955	Blank 34	6	M-M	06-23-16	JKSR
06-24-16	1228	06-24-16	1125	6	11	M-M	06-29-16	JKSR
07-01-16	1715	07-01-16	1612	11	15	M-M	07-05-16	JKSR

Blank

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance
04-29-16	10:21	93	91	Pass	KN	
05-31-16	1128	114	111	Pass	KN	

Table III - Monthly Flow Rate Verification

Date	Time	Monitor Flow (Q Lpm)	Monitor Baro Pressure (mmHg)	Delta Cal Baro Pressure (mmHg)	Monitor Temp (A)	Delta Cal Temp (Ta)	Delta Cal Flow (Qs)	Delta Cal Flow (Qa)	Accuracy	Initials
04-29-16	10:26	16.70	594	593	20.6°C	20.8°C	13.02	16.26	2.7	KN
05-31-16	11:32	16.39	593	592	20.9	21.1	13.23	16.78	-0.5	KN

Compliance Monitor 2366D

Table I - Every 6th Day Sampling

Date	Time	Displayed Date	Displayed Time	Collected Filter ID#	New Filter ID#	Sample Start Time	Sample Start Date	Sampler Initials	
					39				
04-20-16	11:18	04-20-16	10:16	39	19	M-M	04-24-16	KN	
04-25-16	1200	04-25-16	1058	19	24	M-M	04-30-16	JKSR	
05-02-16	1119	05-02-16	1017	24	29	M-M	05-06-16	JKSR	
05-09-16	1650	05-09-16	1548	29	34	M-M	05-12-16	JKSR	
05-13-16	0904	05-13-16	0801	34	7	M-M	05-18-16	KN	
05-20-16	0607	05-20-16	0504	7	12	M-M	05-24-16	KN	→ start and stop same
05-25-16	1133	05-25-16	1030	12	41	M-M	05-30-16	JKSR	
05-31-16	1249	05-31-16	1146	41	18	1149	05-31-16	KN	→ Field Blank
05-31-16	1253	05-31-16	11:50	18	19	M-M	06-05-16	KN	
06-06-16	1530	06-06-16	1427	19	24	M-M	06-11-16	JKSR	still Running
06-14-16	1531	06-14-16	1428	24	30	M-M	06-17-16	JKSR	
06-20-16	1129	06-20-16	1026	30	7	M-M	06-23-16	JKSR	
06-24-16	1238	06-24-16	1135	7	12	M-M	06-29-16	JKSR	
07-01-16	1725	07-01-16	1622	12	16	M-M	07-05-16	JKSR	

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance
04-29-16	10:54	98	97	Pass	KN	
05-31-16	1255	99	97	Pass	KN	

Table III - Monthly Flow Rate Verification

Date	Time	Monitor Flow (Q Lpm)	Monitor Baro Pressure (mmHg)	Delta Cal Baro Pressure (mmHg)	Monitor Temp (A)	Delta Cal Temp (Ta)	Delta Cal Flow (Qs)	Delta Cal Flow (Qa)	Accuracy	Initials
04-29-16	11:00	16.72	589	590	21.2	21.8	13.02	16.26	4.3	KN
05-31-16	1300	16.72	589	591	23.1	24.0	13.08	16.76	-0.24	KN

2366 D

Co-located Monitor 2398E

Table I - Every 6th Day Sampling

Date	Time	Displayed Date	Displayed Time	Collected Filter ID#	New Filter ID#	Sample Start Time	Sample Start Date	Sampler Initials	
					40				
04-20-16	11:13	04-20-16	10:11	40	20	M-M	04/24/16	KN	
04-25-16	1202	04-25-16	1100	20	25	M-M	04-30-16	JKSR	Filter chamber open UC filter
05-02-16	1121	05-02-16	1019	25	30	M-M	05-06-16	JKSR	
05-09-16	1652	05-09-16	1548	30	35	M-M	05-12-16	JKSR	
05-13-16	0910	05-13-16	08:07	35	8	M-M	05-18-16	KN	
05-20-16	0616	05-20-16	0513	8	14	M-M	05-24-16	KN	
05-25-16	1134	05-25-16	1030	14	42	M-M	05-30-16	JKSR	
05-31-16	1305	05-31-16	1204	42	20	M-M	06-05-16	KN	
06-06-16	1532	06-06-16	1429	20	25	M-M	06-11-16	JKSR	
06-14-16	1532	06-14-16	1428	25	31	M-M	06-17-16	JKSR	
06-20-16	1130	06-20-16	1026	31	8	M-M	06-23-16	JKSR	
06-24-16	1241	06-24-16	1135	8	33 Blank ~~34~~		06-24-16	JKSR	Blank
06-24-16	1240	06-24-16	1136	33	32	M-M	06-29-16	JKSR	
07-01-16	1727	07-01-16	1623	32	17	M-M	07-05-16	JKSR	

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance
04-29-16	11:06	99	97	Pass	KN	
05-31/16	1306	96	94	Pass	KN	

Table III - Monthly Flow Rate Verification

Date	Time	Monitor Flow (Q Lpm)	Monitor Baro Pressure (mmHg)	Delta Cal Baro Pressure (mmHg)	Monitor Temp (A)	Delta Cal Temp (Ta)	Delta Cal Flow (Qs)	Delta Cal Flow (Qa)	Accuracy	Initials
04-29-16	11:11	16.7	591	591	21.3	21.8	13.79	16.85	-0.89	KN
05-31-16	1309	16.7	591	591	22.5	22.9	13.22	16.87	-1.01	KN

2398E

APPENDIX E

Independent PM_{10} Sampler Performance Audit Report

AUDIT REPORT
FOR

ALTON COAL DEVELOPMENT, LLC
COAL HOLLOW MINE
ALTON, UTAH
SECOND QUARTER 2016

Prepared for

Kirk Nicholes
Alton Coal Development, LLC
463 N 100 W
Cedar City, Utah, 84721

Prepared by

Air Resource SPECIALISTS

1901 Sharp Point Dr.
Suite E
Fort Collins, CO 80525
970-484-7941

Site Audited: April 20, 2016

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1.0 INTRODUCTION

Air Resource Specialists, Inc. (ARS) conducted a performance audit of Alton Coal Development, LLC ambient air quality monitoring systems on April 20, 2016. The monitoring sites are located at the Coal Hollow Mine near Alton, Utah.

Table 1-1

Site Location Information

	Primary CHM	Background	Primary NPL	Meteorological
Latitude	37° 24' 5.0" N	37° 24' 20.9" N	37° 24' 43" N	37° 23' 53.2" N
Longitude	112° 27' 21.0" W	112° 26' 1.1" W	112° 27' 30.6" W	112° 26' 43.1" W
UTM	12S 371147 4140396	12S 373119 4140856	12S 370928 4141570	12S 372073 4140018
Elevation	6,890 feet MSL	7,158 feet MSL	6,959 feet MSL	7,007 feet MSL

Audit results for the particulate samplers are summarized in Table 1-2. Detailed discussions of performance audit findings and other findings can be found in Section 3.0.

Table 1-2

Summary of Particulate Sampler Audit Results

	Parameter	**Instrument**	**Within Accuracy Goal**
Primary CHM	PM_{10}	BGI PQ200S	Yes
	PM_{10} (collocated)	BGI PQ200S	Yes
Background #1	PM_{10}	BGI PQ200S	Yes
Primary NPL	PM_{10}	BGI PQ200	Yes
	PM_{10} (collocated)	BGI PQ200	Yes

Details of the audit are presented in the following sections:

Section 2.0	Audit Methods and Equipment
Section 3.0	Audit Results
Appendix A	Audit Data Forms
Appendix B	Audit Standards Certifications

Any questions related to this audit or audit report should be addressed to:

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2.0 AUDIT METHODS

Audit procedures, audit challenge ranges, and acceptance criteria are described below. These ranges and limits conform to EPA's PSD guidelines. Audit results were verbally communicated to the site operator prior to departure from the site. A follow-up e-mail summarizing audit findings was also sent to Alton Coal Development, LLC personnel. Audit details are provided in Appendix A.

Guidance from the following EPA documents was used to establish the audit procedures:

- 40 CFR 58, Appendix A. *Quality Assurance Requirements for SLAMS, SPMs, and PSD Air Monitoring*
- EPA *Quality Assurance Handbook for Air Pollution Measurement Systems:*
  - *Volume I. A Field Guide to Environmental Quality Assurance*
  - *Volume II. Ambient Air Quality Monitoring Program*
  - *Volume IV. Meteorological Measurements*
- EPA *Meteorological Monitoring Guidance for Regulatory Modeling Applications*
- EPA *Transfer Standards for Calibration of Air Monitoring Analyzers for Ozone*

2.1 PARTICULATE SAMPLERS (FRM PM_{10})

The filter-based FRM PM_{10} particulate samplers are audited in their normal operating mode. ARS audits the samplers with a BGI DeltaCal audit standard which measures flow, temperature, and barometric pressure. Prior to conducting the flow audit, a system leak check is performed in accordance with the manufacturer's specifications. The observed volumetric operational flow and design flow of the sampler are compared to the audit flows measured by the audit standard. Differences between the operational sampler flow and audit flow that are greater than ±10% are considered out of tolerance. Differences between the designated design flow and the audit flow greater than ±10% are considered out of tolerance. In addition to the flow audits, observed ambient temperature, filter temperature, and barometric pressure measurements of the particulate samplers are also audited by comparison to the audit standard. A temperature difference greater than ±2°C and a barometric pressure difference greater than ±10mm Hg are considered out of tolerance. Audit methods and acceptable criteria for the particulate samplers are summarized in Table 2-1.

Table 2-1

Particulate Samplers
Audit Acceptance Criteria

Parameter	Audit Method	Acceptance Criteria
FRM PM_{10}	Leak Check	Manufacturer specs
	Audit flow to actual sampler flow	≤ ± 10%
	Design criteria flow to audit flow	≤ ± 10%
	Audit temperature to sampler temperature	≤ ± 2 °C
	Audit temperature to sampler filter temperature	≤ ± 2 °C
	Audit barometric pressure to sampler pressure	≤ ±10 mm Hg

Table 2-2

Particulate Samplers
Audit Equipment

References	Manufacturer	Model Number	Serial Number	Expiration Date
FRM Flow	BGI	DeltaCal	1237	1/26/2017

3.0 AUDIT RESULTS

Audit findings and recommendations are discussed below. Detailed audit results are provided in Appendix A.

Performance Audit Results

There were no performance audit issues or other findings to discuss.

APPENDIX A

AUDIT DATA FORMS

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	N/A	CLIENT	Alton	AUDITOR	C.Kirk	DATE	4/20/2016
SITE NAME		Coal Hollow					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltacal	1237	1/26/2017
PM Temperature Standard #1	BGI	deltacal	1237	1/26/2017
PM Barometric Pressure Standard #1	BGI	deltacal	1237	1/26/2017

MANUFACTURER	BGI
MODEL	PQ200S
SERIAL NUMBER	N962A

Date and Time correct?
☐ Yes ☑ No
If no, time off by:
-1 min

SETTINGS	
Total Flow	16.70

Automated LEAK CHECK		
	Vacuum Loss Rate	Pass/Fail
	4 cm H2O	PASS

FLOW VERIFICATION					
	Reference	Instrument	Actual Diff	Design Diff	
Total Flow	17.14	16.70	-2.6%	2.6%	PASS

AUDIT CRITERIA (<=)	
Actual Flow % Diff	10%
Design Flow % Diff	10%

AMBIENT TEMPERATURE SENSOR (°C)				
	Reference	Instrument	Difference	
	15.3	14.9	-0.4	PASS

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

FILTER TEMPERATURE SENSOR (°C)				
	Reference	Instrument	Difference	
	15.1	14.7	-0.4	PASS

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

PRESSURE SENSOR (mmHg)				
	Reference	Instrument	Difference	
	585.5	585.0	-0.5	PASS

AUDIT CRITERIA (<=)	
Pressure Difference (mmHg)	10

NOTES:

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	N/A	CLIENT	Alton	AUDITOR	C.Kirk	DATE	4/20/2016
SITE NAME		Coal Hollow					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltacal	1237	1/26/2017
PM Temperature Standard #1	BGI	deltacal	1237	1/26/2017
PM Barometric Pressure Standard #1	BGI	deltacal	1237	1/26/2017

MANUFACTURER	BGI
MODEL	PQ200S
SERIAL NUMBER	N963B

Date and Time correct?
☑ Yes ☐ No
If no, time off by:
0 min

SETTINGS	
Total Flow	16.70

Automated LEAK CHECK	
Vacuum Loss Rate	Pass/Fail
3 cm H2O	PASS

FLOW VERIFICATION					
	Reference	Instrument	Actual Diff	Design Diff	
Total Flow	16.88	16.70	-1.1%	1.1%	PASS

AUDIT CRITERIA (<=)	
Actual Flow % Diff	10%
Design Flow % Diff	10%

AMBIENT TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
16.2	16.1	-0.1	PASS

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

FILTER TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
16.3	15.8	-0.5	PASS

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

PRESSURE SENSOR (mmHg)			
Reference	Instrument	Difference	
591.0	591.0	0.0	PASS

AUDIT CRITERIA (<=)	
Pressure Difference (mmHg)	10

NOTES:

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	N/A	CLIENT	Alton	AUDITOR	C.Kirk	DATE	4/20/2016
SITE NAME		Coal Hollow					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltacal	1237	1/26/2017
PM Temperature Standard #1	BGI	deltacal	1237	1/26/2017
PM Barometric Pressure Standard #1	BGI	deltacal	1237	1/26/2017

MANUFACTURER	BGI
MODEL	PQ200S
SERIAL NUMBER	N964C

Date and Time correct?
☐ Yes ☑ No
If no, time off by:
-2 min

SETTINGS	
Total Flow	16.70

Automated LEAK CHECK		
	Vacuum Loss Rate	Pass/Fail
	2 cm H2O	PASS

FLOW VERIFICATION					
	Reference	Instrument	Actual Diff	Design Diff	
Total Flow	16.71	16.70	-0.1%	0.1%	PASS

AUDIT CRITERIA (<=)	
Actual Flow % Diff	10%
Design Flow % Diff	10%

AMBIENT TEMPERATURE SENSOR (°C)				
	Reference	Instrument	Difference	
	16.7	16.8	0.1	PASS

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

FILTER TEMPERATURE SENSOR (°C)				
	Reference	Instrument	Difference	
	16.1	16.5	0.4	PASS

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

PRESSURE SENSOR (mmHg)				
	Reference	Instrument	Difference	
	591.0	593.0	2.0	PASS

AUDIT CRITERIA (<=)	
Pressure Difference (mmHg)	10

NOTES:

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	N/A	CLIENT	Alton	AUDITOR	C.Kirk	DATE	4/20/2016
SITE NAME		Coal Hollow					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltacal	1237	1/26/2017
PM Temperature Standard #1	BGI	deltacal	1237	1/26/2017
PM Barometric Pressure Standard #1	BGI	deltacal	1237	1/26/2017

MANUFACTURER	BGI
MODEL	PQ200
SERIAL NUMBER	2366D

Date and Time correct?
☐ Yes ☑ No
If no, time off by:
-2 min

SETTINGS	
Total Flow	16.70

Automated LEAK CHECK		
	Vacuum Loss Rate	Pass/Fail
	2 cm H2O	PASS

FLOW VERIFICATION					
	Reference	Instrument	Actual Diff	Design Diff	
Total Flow	16.82	16.70	-0.7%	0.7%	PASS

AUDIT CRITERIA (<=)	
Actual Flow % Diff	10%
Design Flow % Diff	10%

AMBIENT TEMPERATURE SENSOR (°C)				
	Reference	Instrument	Difference	
	17.0	17.1	0.1	PASS

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

FILTER TEMPERATURE SENSOR (°C)				
	Reference	Instrument	Difference	
	18.2	18.4	0.2	PASS

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

PRESSURE SENSOR (mmHg)				
	Reference	Instrument	Difference	
	590.5	590.0	-0.5	PASS

AUDIT CRITERIA (<=)	
Pressure Difference (mmHg)	10

NOTES:

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	N/A	CLIENT	Alton	AUDITOR	C.Kirk	DATE	4/20/2016
SITE NAME		Coal Hollow					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltacal	1237	1/26/2017
PM Temperature Standard #1	BGI	deltacal	1237	1/26/2017
PM Barometric Pressure Standard #1	BGI	deltacal	1237	1/26/2017

MANUFACTURER	BGI
MODEL	PQ200
SERIAL NUMBER	2398E

Date and Time correct?
☐ Yes ☑ No
If no, time off by:
-2 min

SETTINGS	
Total Flow	16.70

Automated LEAK CHECK	
Vacuum Loss Rate	Pass/Fail
4 cm H2O	PASS

FLOW VERIFICATION					
	Reference	Instrument	Actual Diff	Design Diff	
Total Flow	16.87	16.70	-1.0%	1.0%	PASS

AUDIT CRITERIA (<=)	
Actual Flow % Diff	10%
Design Flow % Diff	10%

AMBIENT TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
18.0	17.8	-0.2	PASS

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

FILTER TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
18.0	18.1	0.1	PASS

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

PRESSURE SENSOR (mmHg)			
Reference	Instrument	Difference	
590.5	591.0	0.5	PASS

AUDIT CRITERIA (<=)	
Pressure Difference (mmHg)	10

NOTES:

Air Resource SPECIALISTS

SITE INFORMATION

ABBR.	N/A	CLIENT	Alton	AUDITOR	C.Kirk	DATE	4/20/2016
SITE NAME		Coal Hollow					
NETWORK TYPE		Alton Coal- Coal Hollow					

		Deg	Min	Sec		Decimal
LATITUDE	North				--CALCULATE->	
LONGITUDE	West					

Decimal		Deg	Min	Sec
	--CALCULATE->			

	Meters		Feet
ELEVATION		--CALCULATE->	

Feet		Meters
	--CALCULATE->	

Please verify site standards used by the site operator

SITE STANDARDS	MANUFACTURER	MODEL	SERIAL #	Calibration Expiration Date
PM Flow Reference				

NOTES:

Air Resource SPECIALISTS

CALIBRATION AND VERIFICATION STANDARDS

ABBR.	N/A	CLIENT	Alton	AUDITOR	C.Kirk	DATE	4/20/2016
SITE NAME		Coal Hollow					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL #	Calibration Expiration Date
Ozone Transfer Standard				
Gas Dilution Transfer Standard				
MFC High Flow Reference				
MFC Low Flow Reference				
Temperature Reference				
AT/RH Sensor Reference				
Barometric Pressure Reference				
Wind Speed Reference (high rpm)				
Wind Speed Reference (low rpm)				
Wind Speed Torque Gauge				
Wind Direction Alignment Reference				
Wind Direction Linearity Reference				
Wind Direction Torque Gauge				
Solar Radiation Reference				
Multiplier		W/m2 / mV		
UV Radiation Reference				
Multiplier		W/m2 / mV		
Precipitation Reference				
Volume		mL		

PM Flow Standard #1	BGI	deltacal	1237	1/26/2017
PM Flow Standard #2				
PM Flow Standard #3				
PM Flow Standard #4				

PM Temperature Standard #1	BGI	deltacal	1237	1/26/2017
PM Temperature Standard #2				
PM Temperature Standard #3				
PM Temperature Standard #4				

PM Barometric Pressure Standard #1	BGI	deltacal	1237	1/26/2017
PM Barometric Pressure Standard #2				
PM Barometric Pressure Standard #3				
PM Barometric Pressure Standard #4				

TEOM MTV Standard				

HiVol Direct Flow Reference				
Orifice				
ΔP orifice manometer				

APPENDIX B

AUDIT STANDARDS CERTIFICATIONS

Mesa Labs 10 Park Place Butler, NJ 07405
NIST Traceable Calibration Facility, ISO 9001:2008 Registered

MesaLabs

CERTIFICATE OF CALIBRATION - NIST TRACEABILITY

(Refer to instruction manual for further details of calibration)

deltaCal Serial Number: **1237** DATE: 15-Jan-2016

Calibration Operator: P.Pitty

Critical Venturi Flow Meter: Max Uncertainity = 0.346%
Serial Number: 1A *CEESI NVLAP NIST Data File 07BGI-0001*
Serial Number: 2A *CEESI NVLAP NIST Data File 07BGI-0003*
Serial Number: 5C COX Nist Data File CCAL33222 - 5 C
Serial Number: 4A *CEESI NVLAP NIST Data File 07BGI-0002*
Serial Number: 3A *CEESI NVLAP NIST Data File 07BGI-0004*

Room Temperature: Uncertainity=0.071% Room Temperature: 24.8 °C
Brand: Accu-Safe Serial Number: 254881
NIST Traceability No. 516837
deltaCal:
Ambient Temperature (set): 24.8 °C
Aux (filter) Temperature (set): 24.8 °C

Barometric Pressure ans Absolute Pressure
Vaisala Model PTB330(50-1100) Digital Accuracy: 0.03371%
S/N DH0850001
NIST Traceable (Princo Primary Standard Model 453 S/N W12537) Certificate No. P-7485
deltaCal:
Barometric pressure (set): 746 mm of Hg

Results of Venturi Calibration
Flow Rate (Q) vs. Pressure Drop (ΔP). Where: Q=Lpm, ΔP= Cm of H2O

Q= 3.88294 ΔP ^ 0.52106 Overall Uncertainty: 0.35%
Q= 3.78777 ΔP ^ 0.54863 Overall Uncertainty: 0.35%

Date Placed In Service 1/26/16
(To be filled in by operator upon receipt)
Recommended Recalibration Date 1/26/17
(12 months from date placed in service)

Revised: September 2015
Cal102-01T2 Rev D

To Check a deltaCal 15-Jan-16 P.Pitty

1.5-19.5 VER 4.00P

BP= 746 mm of Hg

Maximum allowable error at any flow rate is .75%.

Serial No. 1237

	Reading Abs. P Crit. Vent. mm of Hg	Room Temp	CV Qa Flow Lpm	Qa deltaCal Indicated	% Error
# 2	145.17	24.75	1.658	1.651	**-0.42**
	188.07	24.75	2.162	2.155	**-0.34**
	318.63	24.75	3.697	3.710	**0.34**
	402.50	24.75	4.684	4.700	**0.35**
	473.53	24.75	5.519	5.550	**0.57**
#1	150.00	24.90	6.008	6.000	**-0.13**
	259.53	24.90	10.507	10.463	**-0.42**
	337.29	24.90	13.702	13.671	**-0.22**
	398.26	24.90	16.207	16.180	**-0.16**
	476.34	24.90	19.414	19.454	**0.21**
				Average %	**-0.02**

To Check a deltaCal 15-Jan-16 Pre-Recert

1.5-19.5 VER 3.41P

BP= 746 mm of Hg

Maximum allowable error at any flow rate is .75%.

Serial No. 1237

	Reading Abs. P Crit. Vent. mm of Hg	Room Temp	CV Qa Flow Lpm	Qa deltaCal Indicated	% Error
# 5	151.5	24.7	4.99	5.01	**0.42**
	258.5	24.7	8.67	8.60	**-0.80**
	343.1	24.7	11.58	11.49	**-0.77**
	455.5	24.7	15.45	15.14	**-1.98**
	566.3	24.7	19.26	18.94	**-1.64**
				Average %	**-0.95**