Alton Coal Development, LLC.

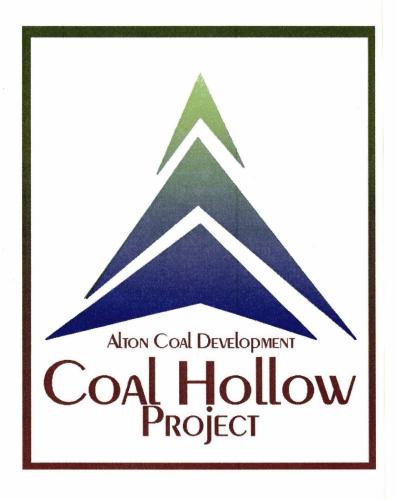
Summary of PM₁₀ Data Collected at Coal Hollow Mine, Utah During the Second Quarter, 2018

Submitted to:

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Contents

1.0	Intr	oduction	12	
2.0 S	ite Lo	cation	2	
3.0	AIR	QUALI	TY DATA SUMMARIES4	
4.0	DAT	TA REC	OVERY AND QUALITY ASSURANCE7	
	4.1	Data Re	ecovery7	
	4.2	Quality	Assurance8	
		4.2.1	Precision of PM ₁₀ Measurements9	
		4.2.2	Audit Results9	
		4.2.3	Zero and Single Point Flow Rate Checks	
			List of Tables	
Table	e I - Si	ummary	of Measured PM ₁₀ Concentrations (μg/m ³)	. 5
Table	e II - S	Summary	of Measured PM ₁₀ Concentrations (μg/m³)	. 5
Table	e III -	Summar	y of Measured PM ₁₀ Concentrations (μg/m ³)	. 6
Table	e IV -	Summar	y of Measured PM ₁₀ Concentrations (μg/m ³)	. 6
Table	e VI –	Mean Q	uarterly and Monthly Wind Speed	. 7
Table	e VIII	- Summa	ary of Data Recovery	. 8
Table	e VII l	III- Audit	t Summary	10
			List of Figures	
Figur	e 1 - S	ite Locati	on Map	3
Figur	e 2 - S	atellite Vi	iew of Monitoring Locations	4
			List of Appendices	
	ENDIX	Α		
Wind				
	ENDIX			
	ig of P ENDIX		centrations (Data sheets for monitor's on DVD)	
Preci	sion ar	nd Single-	Point Flow Rate Checks	
	ENDIX			
	Data S			
	ENDIX			
Indep	enden	t PM ₁₀ Sa	mpler Performance Audit Report	

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.

PM₁₀ monitoring at the site consists of five BGI PQ200 PM₁₀ 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 2018.

2.0 SITE LOCATION

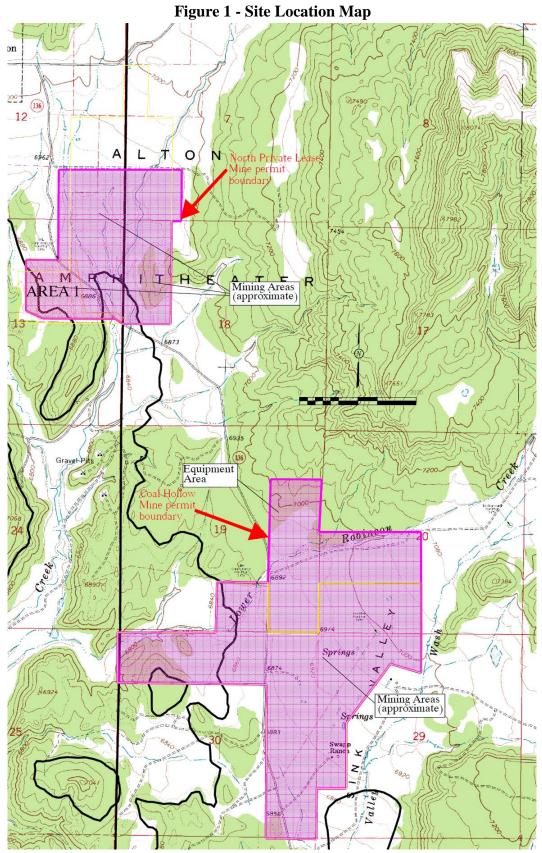
The Coal Hollow Mine is located in Kane County, Utah, approximately three miles southeast of the town of Alton, Utah. Figure 1 on the following page gives an overview of the site location. Specifically, the Coal Hollow Mine is located in Sections 19, 20, 29, and 30 of Township 39S, Range 5W; with an 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 North Private Lease area of the CHM is located in Sections 12, 13 of Township 39S, Range 6W and Sections 7, 18 of Township 39S, Range 5W. The compliance monitor for the North Private Lease 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.



Alton Coal Development, LLC PM₁₀ Data, 2nd Quarter, 2018

August, 2018

Northern Boundary Max. PM10

Background PM10 Monitor

Southeastern Corner Max. PM10 Impact Monitor

Existing Meterological Station

Google earth

Figure 2 - Satellite View of Monitoring Locations

3.0 AIR QUALITY DATA SUMMARIES

A listing of the measured PM₁₀ 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 PM₁₀ 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 PM₁₀ 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 PM₁₀ 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. Two measured PM_{10} concentrations exceded the 24-hour National Ambient Air Quality Standard (NAAQS) of $150 \,\mu\text{g/m}^3$. For the June 6^{th} and June 19^{th} run, both the 2366D and 2398E monitor exceeded the NAAQS. Mining operation required removal of topsoil in the next block to mine and the removed topsoil was stockpiled within ten feet of the collocated monitors. The stockpile, once complete will be seeded to stabilize from future wind and water erosion.

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

RANK	DATE	PM ₁₀ CONCENTRATION
Highest	6/25/2018	17.3
2 nd Highest	4/2/2018	15.0
Monthly Mean	4/1/18-4/30/18	9.3
Monthly Mean	5/1/18-5/31/18	8.8
Monthly Mean	6/1/18-6/30/18	11.9
Quarterly Mean	4/1/18-6/30/18 (15 valid samples)	10.0

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

RANK	DATE	PM ₁₀ CONCENTRATION	
Highest	6/7/2018	81.1	
2 nd Highest	6/13/2018	64.0	
Monthly Mean	4/1/18-4/30/18	15.9	
Monthly Mean	5/1/18-5/31/18	26.6	
Monthly Mean	6/1/18-6/30/18	48.2	

Quarterly Mean	4/1/18-6/30/18 (14 valid samples)	31.2
----------------	--------------------------------------	------

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

RANK	DATE	PM ₁₀ CONCENTRATION
Highest	6/13/2018	52.0
2 nd Highest	5/8/2018	51.1
Monthly Mean	4/1/18-4/30/18	18.9
Monthly Mean	5/1/18-5/31/18	45.3
Monthly Mean	6/1/18-6/30/18	34.5
Quarterly Mean	4/1/18-6/30/18 (12 valid samples)	29.8

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

RANK	DATE	PM ₁₀ CONCENTRATION	
Highest	6/13/2018	410.1	
2 nd Highest	6/19/2018	170.3	
Monthly Mean	4/1/18-4/30/18	34.7	
Monthly Mean	5/1/18-5/31/18	30.5	
Monthly Mean	6/1/18-6/30/18	172.2	
Quarterly Mean	4/1/18-6/30/18 (14 valid samples)	72.5	

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

RANK	DATE	PM ₁₀ CONCENTRATION		
Highest	6/13/2018	402.6		
2 nd Highest	6/19/2018	207.2		
Monthly Mean	4/1/18-4/30/18	32.7		
Monthly Mean	5/1/18-5/31/18	35.6		
Monthly Mean	6/1/18-6/30/18	175.9		
Quarterly Mean	4/1/18-6/30/18 (15 valid samples)	81.4		

Table VI – Mean Quarterly and Monthly Wind Speed

	2nd Quarter 2018	Apr.	May	Jun.
Mean Wind Speed (m/s)	3.53	3.87	3.25	3.48

4.0 DATA RECOVERY AND QUALITY ASSURANCE

4.1 Data Recovery

Monitor 962A

Monitor 962A collected 15 of the 15 samples during the quarter. The percent recovery for this quarter is 100%.

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 April 8th, the monitor over ran the programed sampling time.

Monitor 964C

Monitor 964C collected 12 of the 15 samples during the quarter. The percent recovery for this quarter is 80%. For the sample date May 2nd, the monitor failed to run due to a flow rate excursion $> \pm 5\%$ for > 5 minutes that caused the monitor to shut down. For the sample date May 20th, the monitor failed to run due to a flow rate excursion $> \pm 5\%$ for > 5 minutes that caused the monitor to shut down. For the sample date May 26th, the monitor failed to run due to a flow rate excursion $> \pm 5\%$ for > 5 minutes that caused the monitor to shut down.

Monitor 2366D

Monitor 2366D collected 14 of the 15 samples during the quarter. The percent recovery for this quarter is 93%. For the sample date June 25th, the monitor over ran the sample period due to operator error in programing.

Monitor 2398E

Monitor 2398E collected 15 of the 15 samples during the quarter. The percent recovery for this quarter is 100%.

The PM₁₀ data recoveries for the five monitoring stations are presented below:

POSSIBLE PERCENT DATA SAMPLER VALID SAMPLES SAMPLES RECOVERY 962A 15 15 100% 963B 15 14 93% 964C 15 12 80% 15 14 93% 2366D 2398E 15 15 100%

Table VII - Summary of Data Recovery

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 PM₁₀ 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 μ g/m³. 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 11 valid pairs of colocated monitoring data during the quarter. Single point precision based on 40 CFR, Part 58, Appendix A Equation 2 results were -68.6% to 86.8%. The aggregate coefficient of variability (CV) calculated in accordance with 40 CFR, Part 58, Appendix A Equation 11 is 41.7%. This value is not within the 10% goal for aggregate CV.

Precision calculations at the North Private Lease were developed based on 14 valid pairs of colocated monitoring data during the quarter. Single point precision based on 40 CFR, Part 58, Appendix A Equation 2 results were -38.5% to 32.9%. The aggregate coefficient of variability (CV) calculated in accordance with 40 CFR, Part 58, Appendix A Equation 11 is 17.8%. 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 June 28, 2018. A copy of the audit report is presented in Appendix E and is summarized in Table VI. The audit results indicate that the five samplers were operating properly.

Table VIII- Audit Summary

SAMPLER	AUDIT % DIFFERENCE LIMIT*		DESIGN % DIFFERENCE	LIMIT*			
962A	-1.8	±4%	1.8	± 5%			
963B	-1.5	±4%	1.5	± 5%			
964C	-2.0	±4%	0.1	± 5%			
2366D	0.4	±4%	-0.4	± 5%			
2398E	-0.9	±4%	0.7	± 5%			
*Values between ± 7% and ± 10% require recalibration but no data are invalidated.							

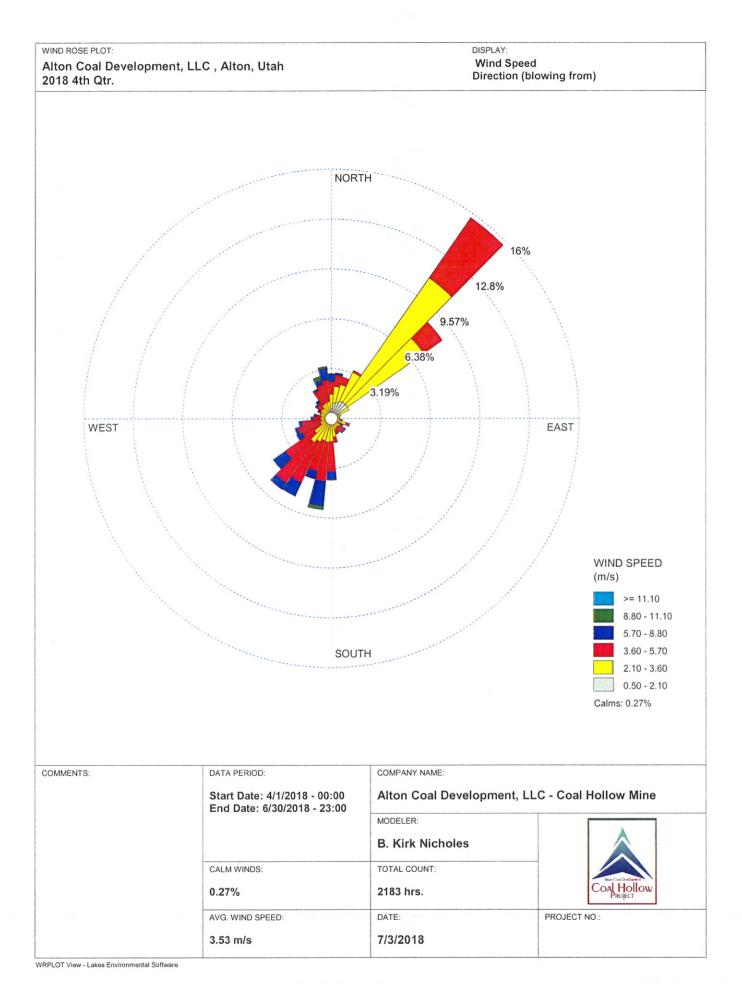
Values between \pm 7% and \pm 10% require recalibration but no data are invalidated.

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



Run ID:

Station ID: 1

Start Date: 4/1/2018 - 00:00 End Date: 6/30/2018 - 23:00

Frequency Distribution (Count)

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

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.808.	80 - 11.10	>= 11.10	Total
355-5	14	20	18	11	0	0	63
5-15	22	23	16	3	0	0	64
15-25	24	25	11	0	0	0	60
25-35	27	44	3	0	0	0	74
35-45	28	211	102	0	0	0	341
45-55	28	130	32	0	0	0	190
55-65	11	17	0	0	0	0	28
65-75	6	8	0	0	0	0	14
75-85	8	4	0	0	0	0	12
85-95	6	5	1	0	0	0	12
95-105	6	7	1	2	0	0	16
105-115	9	12	4	2	0	0	27
115-125	4	7	4	4	0	0	19
125-135	7	8	7	3	0	0	25
135-145	7	7	10	1	0	0	25
145-155	5	9	8	0	0	0	22
155-165	7	9	6	1	0	0	23
165-175	6	20	7	1	0	0	34
175-185	6	26	42	11	1	0	86
185-195	7	26	55	35	5	0	128
195-205	6	26	44	11	1	0	88
205-215	7	29	63	21	0	0	120
215-225	5	36	69	11	0	0	121
225-235	5	24	50	21	0	0	100
235-245	3	13	29	9	0	0	54
245-255	5	11	33	4	0	0	53
255-265	7	7	28	4	0	0	46
265-275	6	9	11	3	0	0	29
275-285	5	9	8	3	0	0	25
285-295	8	8	1	0	0	0	17
295-305	6	10	4	2	0	0	22
305-315	4	14	7	3	0	0	28
315-325	6	11	10	4	0	0	31
325-335	6	16	21	3	0	0	46
335-345	6	17	26	6	6	0	61
345-355	12	12	30	16	3	0	73
Total	335	870	761	195	16	0	2184

Frequency of Calm Winds: 6 Average Wind Speed: 3.53 m/s

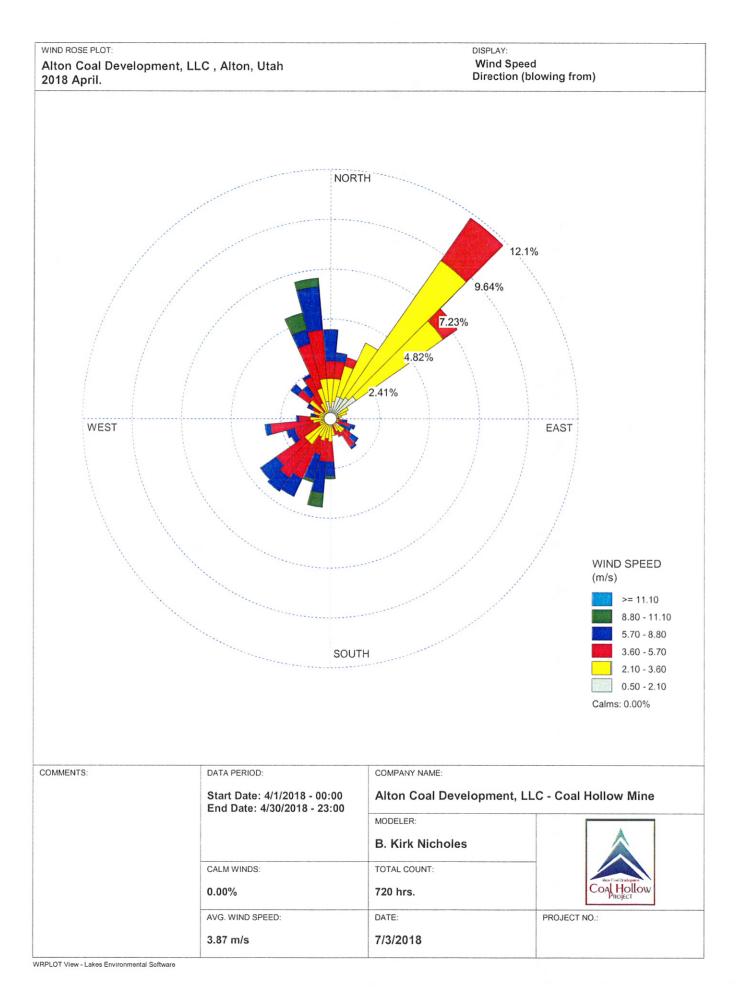
Start Date: 4/1/2018 - 00:00 End Date: 6/30/2018 - 23:00

Frequency Distribution (Normalized)

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

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.808	3.80 - 11.10	>= 11.10	Total
355-5	0.006410	0.009158	0.008242	0.005037	0.000000	0.000000	0.028846
5-15	0.010073	0.010531	0.007326	0.001374	0.000000	0.000000	0.029304
15-25	0.010989	0.011447	0.005037	0.000000	0.000000	0.000000	0.027473
25-35	0.012363	0.020147	0.001374	0.000000	0.000000	0.000000	0.033883
35-45	0.012821	0.096612	0.046703	0.000000	0.000000	0.000000	0.156136
45-55	0.012821	0.059524	0.014652	0.000000	0.000000	0.000000	0.086996
55-65	0.005037	0.007784	0.000000	0.000000	0.000000	0.000000	0.012821
65-75	0.002747	0.003663	0.000000	0.000000	0.000000	0.000000	0.006410
75-85	0.003663	0.001832	0.000000	0.000000	0.000000	0.000000	0.005495
85-95	0.002747	0.002289	0.000458	0.000000	0.000000	0.000000	0.005495
95-105	0.002747	0.003205	0.000458	0.000916	0.000000	0.000000	0.007326
105-115	0.004121	0.005495	0.001832	0.000916	0.000000	0.000000	0.012363
115-125	0.001832	0.003205	0.001832	0.001832	0.000000	0.000000	0.008700
125-135	0.003205	0.003663	0.003205	0.001374	0.000000	0.000000	0.011447
135-145	0.003205	0.003205	0.004579	0.000458	0.000000	0.000000	0.011447
145-155	0.002289	0.004121	0.003663	0.000000	0.000000	0.000000	0.010073
155-165	0.003205	0.004121	0.002747	0.000458	0.000000	0.000000	0.010531
165-175	0.002747	0.009158	0.003205	0.000458	0.000000	0.000000	0.015568
175-185	0.002747	0.011905	0.019231	0.005037	0.000458	0.000000	0.039377
185-195	0.003205	0.011905	0.025183	0.016026	0.002289	0.000000	0.058608
195-205	0.002747	0.011905	0.020147	0.005037	0.000458	0.000000	0.040293
205-215	0.003205	0.013278	0.028846	0.009615	0.000000	0.000000	0.054945
215-225	0.002289	0.016484	0.031593	0.005037	0.000000	0.000000	0.055403
225-235	0.002289	0.010989	0.022894	0.009615	0.000000	0.000000	0.045788
235-245	0.001374	0.005952	0.013278	0.004121	0.000000	0.000000	0.024725
245-255	0.002289	0.005037	0.015110	0.001832	0.000000	0.000000	0.024267
255-265	0.003205	0.003205	0.012821	0.001832	0.000000	0.000000	0.021062
265-275	0.002747	0.004121	0.005037	0.001374	0.000000	0.000000	0.013278
275-285	0.002289	0.004121	0.003663	0.001374	0.000000	0.000000	0.011447
285-295	0.003663	0.003663	0.000458	0.000000	0.000000	0.000000	0.007784
295-305	0.002747	0.004579	0.001832	0.000916	0.000000	0.000000	0.010073
305-315	0.001832	0.006410	0.003205	0.001374	0.000000	0.000000	0.012821
315-325	0.002747	0.005037	0.004579	0.001832	0.000000	0.000000	0.014194
325-335	0.002747	0.007326	0.009615	0.001374	0.000000	0.000000	0.021062
335-345	0.002747	0.007784	0.011905	0.002747	0.002747	0.000000	0.027930
345-355	0.005495	0.005495	0.013736	0.007326	0.001374	0.000000	0.033425
Total	0.153388	0.398352	0.348443	0.089286	0.007326	0.000000	0.996795

Frequency of Calm Winds: 0.27% Average Wind Speed: 3.53 m/s



Start Date: 4/1/2018 - 00:00 End Date: 4/30/2018 - 23:00

Frequency Distribution (Count)

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

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.808.	80 - 11.10	>= 11.10	Total
355-5	4	10	6	11	0	0	31
5-15	6	8	6	3	0	0	23
15-25	8	11	3	0	0	0	22
25-35	8	21	0	0	0	0	29
35-45	9	58	18	0	0	0	85
45-55	11	37	6	0	0	0	54
55-65	3	4	0	0	0	0	7
65-75	2	4	0	0	0	0	6
75-85	3	1	0	0	0	0	4
85-95	0	2	1	0	0	0	3
95-105	1	2	1	2	0	0	6
105-115	0	3	4	2	0	0	9
115-125	1	1	2	4	0	0	8
125-135	4	2	3	3	0	0	12
135-145	2	4	6	1	0	0	13
145-155	1	4	2	0	0	0	7
155-165	0	2	4	0	0	0	6
165-175	3	3	0	0	0	0	6
175-185	0	8	7	5	1	0	21
185-195	1	6	8	11	5	0	31
195-205	2	6	5	9	1	0	23
205-215	2	5	16	7	0	0	30
215-225	1	10	14	6	0	0	31
225-235	1	10	12	7	0	0	30
235-245	1	3	9	2	0	0	15
245-255	2	2	9	3	0	0	16
255-265	3	3	15	2	0	0	23
265-275	2	5	4	1	0	0	12
275-285	1	3	1	2	0	0	7
285-295	2	4	0	0	0	0	6
295-305	1	3	3	2	0	0	9
305-315	3	6	5	3	0	0	17
315-325	0	3	7	4	0	0	14
325-335	1	5	10	1	0	0	17
335-345	2	9	16	5	6	0	38
345-355	6	8	17	15	3	0	49
Total	97	276	220	111	16	0	720

Frequency of Calm Winds: 0 Average Wind Speed: 3.87 m/s Run ID:

Station ID: 1

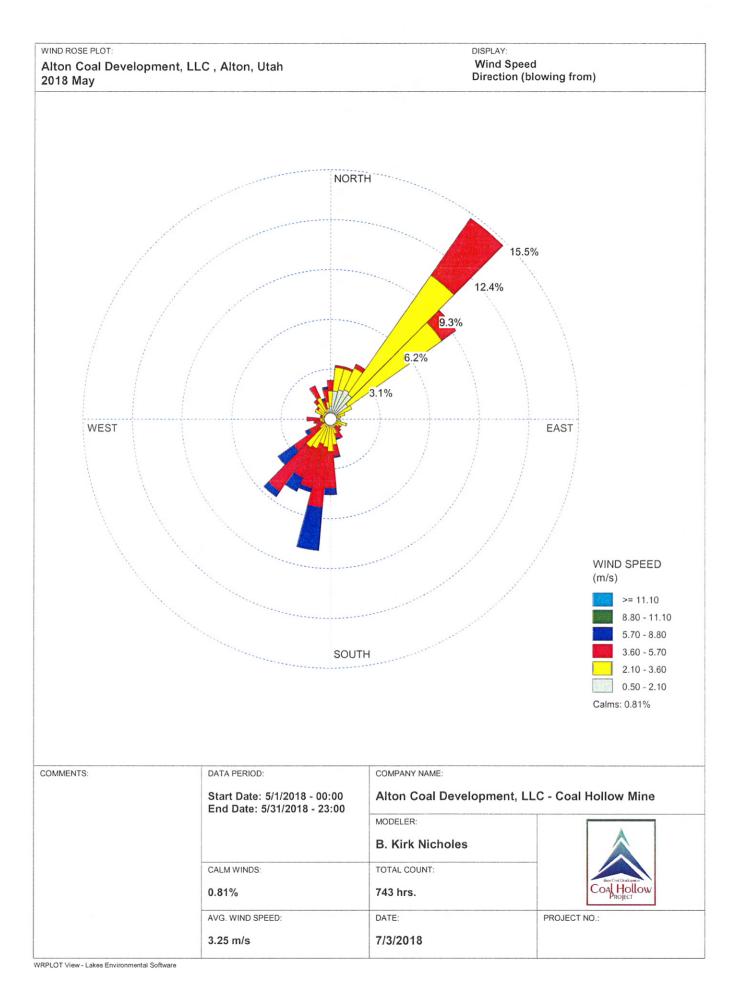
Start Date: 4/1/2018 - 00:00 End Date: 4/30/2018 - 23:00

Frequency Distribution (Normalized)

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

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.808	3.80 - 11.10	>= 11.10	Total
355-5	0.005556	0.013889	0.008333	0.015278	0.000000	0.000000	0.043056
5-15	0.008333	0.011111	0.008333	0.004167	0.000000	0.000000	0.031944
15-25	0.011111	0.015278	0.004167	0.000000	0.000000	0.000000	0.030556
25-35	0.011111	0.029167	0.000000	0.000000	0.000000	0.000000	0.040278
35-45	0.012500	0.080556	0.025000	0.000000	0.000000	0.000000	0.118056
45-55	0.015278	0.051389	0.008333	0.000000	0.000000	0.000000	0.075000
55-65	0.004167	0.005556	0.000000	0.000000	0.000000	0.000000	0.009722
65-75	0.002778	0.005556	0.000000	0.000000	0.000000	0.000000	0.008333
75-85	0.004167	0.001389	0.000000	0.000000	0.000000	0.000000	0.005556
85-95	0.000000	0.002778	0.001389	0.000000	0.000000	0.000000	0.004167
95-105	0.001389	0.002778	0.001389	0.002778	0.000000	0.000000	0.008333
105-115	0.000000	0.004167	0.005556	0.002778	0.000000	0.000000	0.012500
115-125	0.001389	0.001389	0.002778	0.005556	0.000000	0.000000	0.011111
125-135	0.005556	0.002778	0.004167	0.004167	0.000000	0.000000	0.016667
135-145	0.002778	0.005556	0.008333	0.001389	0.000000	0.000000	0.018056
145-155	0.001389	0.005556	0.002778	0.000000	0.000000	0.000000	0.009722
155-165	0.000000	0.002778	0.005556	0.000000	0.000000	0.000000	0.008333
165-175	0.004167	0.004167	0.000000	0.000000	0.000000	0.000000	0.008333
175-185	0.000000	0.011111	0.009722	0.006944	0.001389	0.000000	0.029167
185-195	0.001389	0.008333	0.011111	0.015278	0.006944	0.000000	0.043056
195-205	0.002778	0.008333	0.006944	0.012500	0.001389	0.000000	0.031944
205-215	0.002778	0.006944	0.022222	0.009722	0.000000	0.000000	0.041667
215-225	0.001389	0.013889	0.019444	0.008333	0.000000	0.000000	0.043056
225-235	0.001389	0.013889	0.016667	0.009722	0.000000	0.000000	0.041667
235-245	0.001389	0.004167	0.012500	0.002778	0.000000	0.000000	0.020833
245-255	0.002778	0.002778	0.012500	0.004167	0.000000	0.000000	0.022222
255-265	0.004167	0.004167	0.020833	0.002778	0.000000	0.000000	0.031944
265-275	0.002778	0.006944	0.005556	0.001389	0.000000	0.000000	0.016667
275-285	0.001389	0.004167	0.001389	0.002778	0.000000	0.000000	0.009722
285-295	0.002778	0.005556	0.000000	0.000000	0.000000	0.000000	0.008333
295-305	0.001389	0.004167	0.004167	0.002778	0.000000	0.000000	0.012500
305-315	0.004167	0.008333	0.006944	0.004167	0.000000	0.000000	0.023611
315-325	0.000000	0.004167	0.009722	0.005556	0.000000	0.000000	0.019444
325-335	0.001389	0.006944	0.013889	0.001389	0.000000	0.000000	0.023611
335-345	0.002778	0.012500	0.022222	0.006944	0.008333	0.000000	0.052778
345-355	0.008333	0.011111	0.023611	0.020833	0.004167	0.000000	0.068056
Total	0.134722	0.383333	0.305556	0.154167	0.022222	0.000000	1.000000

Frequency of Calm Winds: 0.00% Average Wind Speed: 3.87 m/s



Start Date: 5/1/2018 - 00:00 End Date: 5/31/2018 - 23:00

Frequency Distribution (Count)

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

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.808	.80 - 11.10	>= 11.10	Total
355-5	6	7	5	0	0	0	18
5-15	13	11	1	0	0	0	25
15-25	14	10	1	0	0	0	25
25-35	15	11	2	0	0	0	28
35-45	14	67	32	0	0	0	113
45-55	10	53	8	0	0	0	71
55-65	4	7	0	0	0	0	11
65-75	3	4	0	0	0	0	7
75-85	3	2	0	0	0	0	5
85-95	4	0	0	0	0	0	4
95-105	3	2	0	0	0	0	5
105-115	2	6	0	0	0	0	8
115-125	2	4	0	0	0	0	6
125-135	1	4	1	0	0	0	6
135-145	3	1	3	0	0	0	7
145-155	3	1	6	0	0	0	10
155-165	4	3	2	1	0	0	10
165-175	0	12	5	1	0	0	18
175-185	4	11	17	3	0	0	35
185-195	3	10	28	20	0	0	61
195-205	3	9	21	2	0	0	35
205-215	4	11	15	7	0	0	37
215-225	1	15	25	3	0	0	44
225-235	2	4	15	9	0	0	30
235-245	1	2	8	2	0	0	13
245-255	0	4	3	0	0	0	7
255-265	3	2	3	0	0	0	8
265-275	2	3	6	0	0	0	11
275-285	2	2	1	0	0	0	5
285-295	3	1	1	0	0	0	5
295-305	2	6	0	0	0	0	8
305-315	1	6	1	0	0	0	8
315-325	4	5	2	0	0	0	11
325-335	3	8	6	0	0	0	17
335-345	3	2	4	1	0	0	10
345-355	5	3	6	1	0	0	15
Total	150	309	228	50	0	0	744

Frequency of Calm Winds: 6 Average Wind Speed: 3.25 m/s

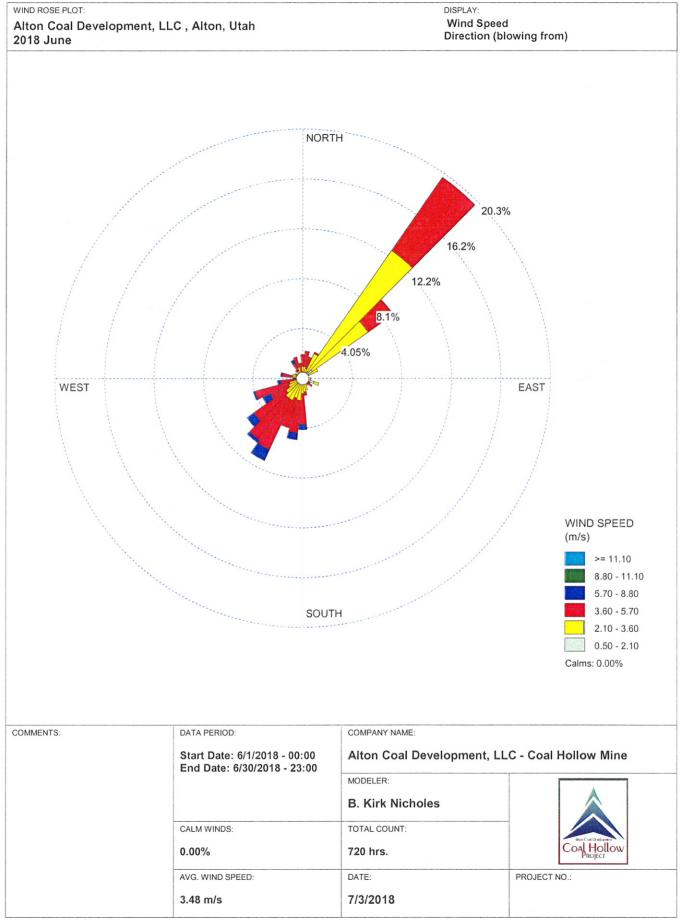
Start Date: 5/1/2018 - 00:00 End Date: 5/31/2018 - 23:00

Frequency Distribution (Normalized)

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

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.808	3.80 - 11.10	>= 11.10	Total
355-5	0.008065	0.009409	0.006720	0.000000	0.000000	0.000000	0.024194
5-15	0.017473	0.014785	0.001344	0.000000	0.000000	0.000000	0.033602
15-25	0.018817	0.013441	0.001344	0.000000	0.000000	0.000000	0.033602
25-35	0.020161	0.014785	0.002688	0.000000	0.000000	0.000000	0.037634
35-45	0.018817	0.090054	0.043011	0.000000	0.000000	0.000000	0.151882
45-55	0.013441	0.071237	0.010753	0.000000	0.000000	0.000000	0.095430
55-65	0.005376	0.009409	0.000000	0.000000	0.000000	0.000000	0.014785
65-75	0.004032	0.005376	0.000000	0.000000	0.000000	0.000000	0.009409
75-85	0.004032	0.002688	0.000000	0.000000	0.000000	0.000000	0.006720
85-95	0.005376	0.000000	0.000000	0.000000	0.000000	0.000000	0.005376
95-105	0.004032	0.002688	0.000000	0.000000	0.000000	0.000000	0.006720
105-115	0.002688	0.008065	0.000000	0.000000	0.000000	0.000000	0.010753
115-125	0.002688	0.005376	0.000000	0.000000	0.000000	0.000000	0.008065
125-135	0.001344	0.005376	0.001344	0.000000	0.000000	0.000000	0.008065
135-145	0.004032	0.001344	0.004032	0.000000	0.000000	0.000000	0.009409
145-155	0.004032	0.001344	0.008065	0.000000	0.000000	0.000000	0.013441
155-165	0.005376	0.004032	0.002688	0.001344	0.000000	0.000000	0.013441
165-175	0.000000	0.016129	0.006720	0.001344	0.000000	0.000000	0.024194
175-185	0.005376	0.014785	0.022849	0.004032	0.000000	0.000000	0.047043
185-195	0.004032	0.013441	0.037634	0.026882	0.000000	0.000000	0.081989
195-205	0.004032	0.012097	0.028226	0.002688	0.000000	0.000000	0.047043
205-215	0.005376	0.014785	0.020161	0.009409	0.000000	0.000000	0.049731
215-225	0.001344	0.020161	0.033602	0.004032	0.000000	0.000000	0.059140
225-235	0.002688	0.005376	0.020161	0.012097	0.000000	0.000000	0.040323
235-245	0.001344	0.002688	0.010753	0.002688	0.000000	0.000000	0.017473
245-255	0.000000	0.005376	0.004032	0.000000	0.000000	0.000000	0.009409
255-265	0.004032	0.002688	0.004032	0.000000	0.000000	0.000000	0.010753
265-275	0.002688	0.004032	0.008065	0.000000	0.000000	0.000000	0.014785
275-285	0.002688	0.002688	0.001344	0.000000	0.000000	0.000000	0.006720
285-295	0.004032	0.001344	0.001344	0.000000	0.000000	0.000000	0.006720
295-305	0.002688	0.008065	0.000000	0.000000	0.000000	0.000000	0.010753
305-315	0.001344	0.008065	0.001344	0.000000	0.000000	0.000000	0.010753
315-325	0.005376	0.006720	0.002688	0.000000	0.000000	0.000000	0.014785
325-335	0.004032	0.010753	0.008065	0.000000	0.000000	0.000000	0.022849
335-345	0.004032	0.002688	0.005376	0.001344	0.000000	0.000000	0.013441
345-355	0.006720	0.004032	0.008065	0.001344	0.000000	0.000000	0.020161
Total	0.201613	0.415323	0.306452	0.067204	0.000000	0.000000	0.990591

Frequency of Calm Winds: 0.81% Average Wind Speed: 3.25 m/s



Start Date: 6/1/2018 - 00:00 End Date: 6/30/2018 - 23:00

Frequency Distribution (Count)

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

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.808.8	30 - 11.10	>= 11.10	Total
355-5	4	3	7	0	0	0	14
5-15	3	4	9	0	0	0	16
15-25	2	4	7	0	0	0	13
25-35	4	12	1	0	0	0	17
35-45	5	86	52	0	0	0	143
45-55	7	40	18	0	0	0	65
55-65	4	6	0	0	0	0	10
65-75	1	0	0	0	0	0	1
75-85	2	1	0	0	0	0	3
85-95	2	3	0	0	0	0	5
95-105	2	3	0	0	0	0	5
105-115	7	3	0	0	0	0	10
115-125	1	2	2	0	0	0	5
125-135	2	2	3	0	0	0	7
135-145	2	2	1	0	0	0	5
145-155	1	4	0	0	0	0	5
155-165	3	4	0	0	0	0	7
165-175	3	5	2	0	0	0	10
175-185	2	7	18	3	0	0	30
185-195	3	10	19	4	0	0	36
195-205	1	11	18	0	0	0	30
205-215	1	13	32	7	0	0	53
215-225	3	11	30	2	0	0	46
225-235	2	10	23	5	0	0	40
235-245	1	8	12	5	0	0	26
245-255	3	5	21	1	0	0	30
255-265	1	2	10	2	0	0	15
265-275	2	1	1	2	0	0	6
275-285	2	4	6	1	0	0	13
285-295	3	3	0	0	0	0	6
295-305	3	1	1	0	0	0	5
305-315	0	2	1	0	0	0	3
315-325	2	3	1	0	0	0	6
325-335	2	3	5	2	0	0	12
335-345	1	6	6	0	0	0	13
345-355	1	1	7	0	0	0	9
Total	88	285	313	34	0	0	720

Frequency of Calm Winds: 0 Average Wind Speed: 3.48 m/s

Start Date: 6/1/2018 - 00:00 End Date: 6/30/2018 - 23:00

Frequency Distribution (Normalized)

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

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.808	3.80 - 11.10	>= 11.10	Total
355-5	0.005556	0.004167	0.009722	0.000000	0.000000	0.000000	0.019444
5-15	0.004167	0.005556	0.012500	0.000000	0.000000	0.000000	0.022222
15-25	0.002778	0.005556	0.009722	0.000000	0.000000	0.000000	0.018056
25-35	0.005556	0.016667	0.001389	0.000000	0.000000	0.000000	0.023611
35-45	0.006944	0.119444	0.072222	0.000000	0.000000	0.000000	0.198611
45-55	0.009722	0.055556	0.025000	0.000000	0.000000	0.000000	0.090278
55-65	0.005556	0.008333	0.000000	0.000000	0.000000	0.000000	0.013889
65-75	0.001389	0.000000	0.000000	0.000000	0.000000	0.000000	0.001389
75-85	0.002778	0.001389	0.000000	0.000000	0.000000	0.000000	0.004167
85-95	0.002778	0.004167	0.000000	0.000000	0.000000	0.000000	0.006944
95-105	0.002778	0.004167	0.000000	0.000000	0.000000	0.000000	0.006944
105-115	0.009722	0.004167	0.000000	0.000000	0.000000	0.000000	0.013889
115-125	0.001389	0.002778	0.002778	0.000000	0.000000	0.000000	0.006944
125-135	0.002778	0.002778	0.004167	0.000000	0.000000	0.000000	0.009722
135-145	0.002778	0.002778	0.001389	0.000000	0.000000	0.000000	0.006944
145-155	0.001389	0.005556	0.000000	0.000000	0.000000	0.000000	0.006944
155-165	0.004167	0.005556	0.000000	0.000000	0.000000	0.000000	0.009722
165-175	0.004167	0.006944	0.002778	0.000000	0.000000	0.000000	0.013889
175-185	0.002778	0.009722	0.025000	0.004167	0.000000	0.000000	0.041667
185-195	0.004167	0.013889	0.026389	0.005556	0.000000	0.000000	0.050000
195-205	0.001389	0.015278	0.025000	0.000000	0.000000	0.000000	0.041667
205-215	0.001389	0.018056	0.044444	0.009722	0.000000	0.000000	0.073611
215-225	0.004167	0.015278	0.041667	0.002778	0.000000	0.000000	0.063889
225-235	0.002778	0.013889	0.031944	0.006944	0.000000	0.000000	0.055556
235-245	0.001389	0.011111	0.016667	0.006944	0.000000	0.000000	0.036111
245-255	0.004167	0.006944	0.029167	0.001389	0.000000	0.000000	0.041667
255-265	0.001389	0.002778	0.013889	0.002778	0.000000	0.000000	0.020833
265-275	0.002778	0.001389	0.001389	0.002778	0.000000	0.000000	0.008333
275-285	0.002778	0.005556	0.008333	0.001389	0.000000	0.000000	0.018056
285-295	0.004167	0.004167	0.000000	0.000000	0.000000	0.000000	0.008333
295-305	0.004167	0.001389	0.001389	0.000000	0.000000	0.000000	0.006944
305-315	0.000000	0.002778	0.001389	0.000000	0.000000	0.000000	0.004167
315-325	0.002778	0.004167	0.001389	0.000000	0.000000	0.000000	0.008333
325-335	0.002778	0.004167	0.006944	0.002778	0.000000	0.000000	0.016667
335-345	0.001389	0.008333	0.008333	0.000000	0.000000	0.000000	0.018056
345-355	0.001389	0.001389	0.009722	0.000000	0.000000	0.000000	0.012500
Total	0.122222	0.395833	0.434722	0.047222	0.000000	0.000000	1.000000

Frequency of Calm Winds: 0.00% Average Wind Speed: 3.48 m/s

APPENDIX B

Listing of PM₁₀ Concentrations

Background Monitor 962A

PM₁₀ Sampler Summary

April 1, 2018 - June 30, 2018

Network: Alton Coal Development

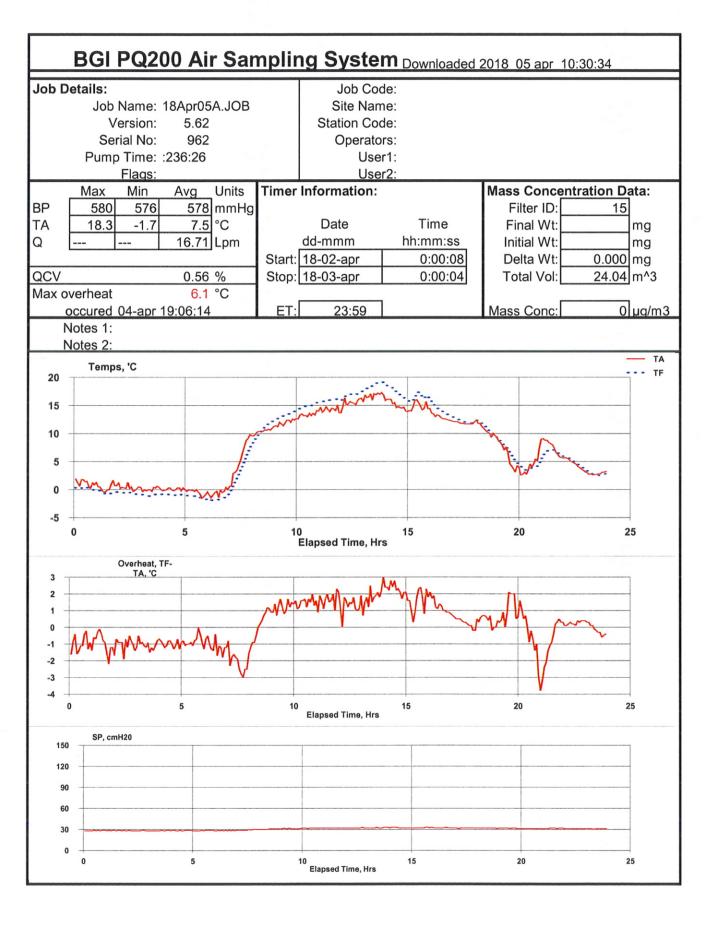
Site: Coal Hollow

AQS ID:

Sampler Type: BGI FRM Single Sampler ID: Coal Hollow-A

Comments П 7 노 노 2 노 0.165 0.116 0.179 0.183 0.160 0.146 0.190 0.224 0.209 0.325 0.008 900.0 (mg) 0.293 0.163 0.137 0.231 0.181 370.529 370.535 370.306 374.026 383.953 372.270 377.983 377.645 365.340 376.142 376.150 377.682 365.194 375.499 373.168 375.191 365.247 371.153 372.962 Gross (mg) 377.389 365.015 372.046 370.141 365.078 375.336 372.989 375.054 365.064 373.866 372.731 383.763 377.774 377.464 371.007 Tare (mg) Volume 19.4 19.5 19.8 20.0 19.2 20.0 19.0 19.4 19.2 19.1 19.1 19.0 18.8 19.0 18.8 Std (m₃) 5.8 Sample Volume 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 17.3 (m₃) 24.0 Max Sample St. Dev. (hr:min) Period 23:59 23:59 23:59 23:59 23:59 23:59 23:59 23:59 23:59 23:59 23:59 23:59 23:59 Field Blank Field Blank Concentration (µg/m3) Average 12.0 STP 11.7 11.1 9.9 5.8 9.3 6.8 9.6 8.2 9.7 8.1 Concentration Recovery (hg/m3) 100% 13.5 LTP 12.1 9.9 6.0 9.6 7.9 9.3 8.6 7.5 4.8 6.7 7.4 5.6 7.6 P2946888 P2947088 P2947093 P2947098 P2947323 P2947329 P2947557 P2947563 P2947769 P2947774 P2947779 P2948031 P2948037 P2948230 P2948236 P2947328 P2948235 # Valid Filter 15 0 04/02/18 04/14/18 04/20/18 04/26/18 05/02/18 05/08/18 05/14/18 05/20/18 05/26/18 06/07/18 06/13/18 06/19/18 06/25/18 04/27/18 06/22/18 04/08/18 06/01/18 Date

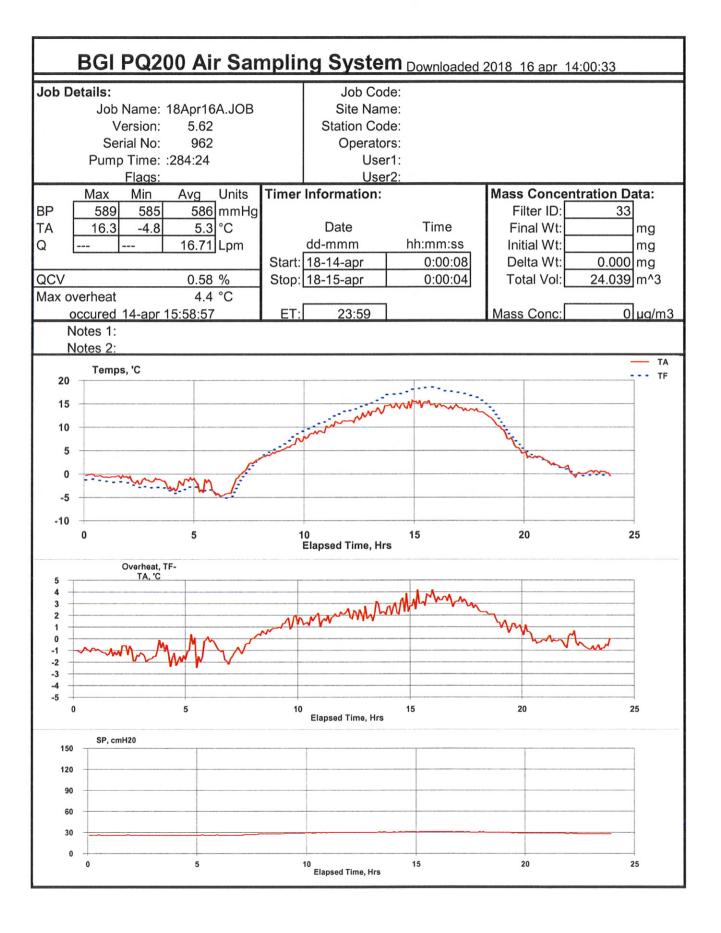
Inter-Mountain Laboratories' (IML) data validation is limited by the provided information. Data have been validated based on laboratory QC, field observations and other information available to IML. Additional data validation based on information not provided to IML may be required. According to 40 CFR 58.15 final responsibilities for data review and validation lies with each agency submitting data to AQS.



18-02-apr	0:05:08	580	1.2	0.2	-1.0	28	16.72
18-02-apr	1:05:08	580	0.5	-0.5	-1.0	29	16.73
18-02-apr	2:05:08	579	0.3	-0.7	-1.0	28	16.72
18-02-apr	3:05:08	579	0.1	-1.0	-1.0	28	16.72
18-02-apr	4:05:08	579	0.1	-0.9	-1.0	29	16.72
18-02-apr	5:05:08	579	-0.5	-1.3	-0.8	29	16.72
18-02-apr	6:05:08	579	-0.4	-1.6	-1.1	29	16.71
18-02-apr	7:05:08	579	6.0	3.9	-2.1	29	16.71
18-02-apr	8:05:08	579	10.5	10.7	0.2	31	16.70
18-02-apr	9:05:08	579	12.0	13.2	1.2	31	16.71
18-02-apr	10:05:08	579	13.4	14.9	1.5	32	16.71
18-02-apr	11:05:08	578	14.3	15.9	1.6	32	16.71
18-02-apr	12:05:08	578	15.6	16.9	1.3	32	16.70
18-02-apr	13:05:08	577	16.8	18.6	1.8	32	16.71
18-02-apr	14:05:08	577	15.0	17.3	2.3	32	16.72
18-02-apr	15:05:08	577	14.8	16.4	1.6	32	16.71
18-02-apr	16:05:08	577	12.8	14.1	1.3	32	16.71
18-02-apr	17:05:08	577	11.9	12.2	0.3	32	16.71
18-02-apr	18:05:08	577	10.6	10.9	0.3	32	16.71
18-02-apr	19:05:08	577	5.8	6.8	1.0	32	16.72
18-02-apr	20:05:08	578	4.6	4.0	-0.6	31	16.71
18-02-apr	21:05:08	578	7.4	6.6	-0.8	32	16.72
18-02-apr	22:05:08	579	4.5	4.8	0.3	31	16.70
18-02-apr	23:05:08	579	2.9	2.7	-0.1	31	16.72

Job Details: Job Name: 18Apr10A.JOB Version: 5.62 Sarial No: 962 Pump Time: 260:25 Station Code: Operators: User1: Save 15:4 -0.5 7.3 °C Q	BGI PQ200 Air San	nplir	ng System	Downloaded	2018 10 apr 10	0:45:09
Max Min Avg Units BP 584 578 581 mmHg Time Mass Concentration Data: Filter ID: 26 Final Wt: mg mg Max Overheat 16.71 Lpm Mass Concentration Data: Filter ID: 26 Final Wt: mg mg Max Overheat Mass Concentration Data: Filter ID: 26 Final Wt: mg mg Mass Concentration Data: Filter ID: 26 Final Wt: mg mg Mass Concentration Data: Filter ID: 26 Final Wt: mg Mass Concentration Data: Filter ID: 26 Final Wt: mg Mass Concentration Data: Filter ID: 26 Final Wt: mg Mass Concentration Data: Filter ID: 26 Final Wt: mg Mass Concentration Data: Filter ID: 26 Final Wt: mg Mass Concentration Data: Filter ID: 26 Final Wt: mg Mass Concentration Data: Filter ID: 26 Final Wt: mg Mass Concentration Data: Filter ID: 26 Final Wt: mg Mass Concentration Data: Filter ID: 26 Final Wt: mg Mass Concentration Data: Filter ID: 26 Final Wt: mg Mass Concentration Data: Filter ID: 26 Final Wt: mg Mass Concentration Data: Filter ID: 26 Final Wt: mg Mass Concentration Data: Filter ID: Filter ID: Concentration Data: Filter ID: Filter ID:	Job Name: 18Apr10A.JOB Version: 5.62 Serial No: 962		Site Name: Station Code: Operators:			
Temps, 'C	Max Min Avg Units BP 584 578 581 mmHg TA 15.4 -0.5 7.3 °C Lpm QCV 0.55 % Max overheat occured 09-apr 19:24:11 5.7 °C Notes 1: 0.55 %	Start: Stop:	Date dd-mmm 18-08-apr 18-09-apr	hh:mm:ss 0:00:08	Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol:	26 mg mg 0.000 mg 24.043 m^3
	Temps, 'C 20 15 10 5 0 -5			15	20	TF
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Marin		

18-08-apr	0:05:08	579	8.7	7.4	-1.3	31	16.72
18-08-apr	1:05:08	579	5.9	5.9	0.0	32	16.71
18-08-apr	2:05:08	579	5.4	4.1	-1.2	31	16.71
18-08-apr	3:05:08	579	4.5	3.2	-1.3	31	16.71
18-08-apr	4:05:08	579	2.3	1.9	-0.4	31	16.71
18-08-apr	5:05:08	580	0.5	-0.3	-0.8	31	16.74
18-08-apr	6:05:08	580	0.1	-0.7	-0.8	31	16.71
18-08-apr	7:05:08	581	3.3	2.4	-0.9	32	16.71
18-08-apr	8:05:08	581	8.3	8.4	0.2	33	16.72
18-08-apr	9:05:08	581	9.8	11.3	1.5	34	16.71
18-08-apr	10:05:08	582	11.1	13.5	2.5	35	16.72
18-08-apr	11:05:08	582	12.2	14.5	2.3	35	16.72
18-08-apr	12:05:08	582	13.1	14.8	1.8	35	16.72
18-08-apr	13:05:08	582	14.4	16.1	1.7	35	16.72
18-08-apr	14:05:08	582	14.1	16.4	2.3	35	16.71
18-08-apr	15:05:08	582	14.2	16.5	2.3	35	16.72
18-08-apr	16:05:08	582	13.6	15.9	2.4	35	16.71
18-08-apr	17:05:08	582	12.9	15.0	2.2	35	16.71
18-08-apr	18:05:08	583	9.7	11.4	1.7	34	16.72
18-08-apr	19:05:08	583	3.7	5.2	1.5	34	16.70
18-08-apr	20:05:08	583	2.4	2.2	-0.3	33	16.71
18-08-apr	21:05:08	584	1.7	1.0	-0.7	33	16.72
18-08-apr	22:05:08	584	0.8	0.0	-0.7	33	16.71
18-08-apr	23:05:08	584	0.9	-0.1	-0.9	33	16.71



18-14-apr	0:05:08	587	-0.4	-1.3	-1.0	26	16.71
18-14-apr	1:05:08	587	-0.6	-1.8	-1.2	26	16.73
18-14-apr	2:05:08	588	-1.5	-2.7	-1.2	26	16.71
18-14-apr	3:05:08	587	-1.9	-3.1	-1.3	26	16.71
18-14-apr	4:05:08	588	-1.9	-3.4	-1.6	26	16.71
18-14-apr	5:05:08	588	-2.7	-3.5	-0.8	26	16.73
18-14-apr	6:05:08	588	-3.5	-4.5	-1.1	26	16.72
18-14-apr	7:05:08	588	1.8	1.0	-0.8	27	16.71
18-14-apr	8:05:08	588	4.3	4.9	0.6	28	16.70
18-14-apr	9:05:08	588	6.5	7.8	1.3	29	16.74
18-14-apr	10:05:08	588	8.8	10.4	1.6	30	16.71
18-14-apr	11:05:08	588	10.8	12.6	1.8	30	16.70
18-14-apr	12:05:08	588	12.1	14.3	2.1	30	16.71
18-14-apr	13:05:08	587	13.9	16.2	2.2	30	16.72
18-14-apr	14:05:08	587	14.7	17.5	2.7	31	16.71
18-14-apr	15:05:08	586	15.0	18.4	3.3	31	16.72
18-14-apr	16:05:08	586	14.4	17.8	3.4	31	16.70
18-14-apr	17:05:08	586	13.7	16.7	3.1	30	16.72
18-14-apr	18:05:08	586	11.6	13.6	2.0	30	16.71
18-14-apr	19:05:08	586	6.6	7.6	1.1	29	16.71
18-14-apr	20:05:08	586	3.6	3.7	0.1	29	16.71
18-14-apr	21:05:08	586	1.9	1.7	-0.2	29	16.71
18-14-apr	22:05:08	586	0.1	-0.1	-0.3	28	16.71
18-14-apr	23:05:08	586	0.4	-0.3	-0.7	28	16.71

ВС	I PQ20	00 Ai	r Sar	nplir	ng Syste	<b>m</b> Downloaded	2018 23 apr 08	3:40:43
Job Details	3:				Job Co	de:		
J	ob Name:	18Apr23	A.JOB		Site Nar	ne: 962A		*
	Version:	5.62			Station Co	de:		
	Serial No:	962			Operato	ors: KN		
	ımp Time: :				Use			
	Flags:				Use			
Ma		Avg	Units	Timer	Information:		Mass Concen	tration Data:
	85 575		mmHg				Filter ID:	38
	0.2 -6.8	1	°C		Date	Time	Final Wt:	mg
Q	7.2	16.71			dd-mmm	hh:mm:ss	Initial Wt:	mg
Q		10.71	СРП	Start:	18-20-apr	0:00:08	Delta Wt:	0.000 mg
QCV		0.51	0/		18-21-apr	0:00:05	Total Vol:	24.041 m^3
Max overhe	ot	6.5		Stop.	10-21-api	0.00.03	Total vol.	24.041]11173
	at <u>ed 22-apr 1</u>			ET:	23:59	1	Mass Conc:	0 µg/m3
		9.14.29		□ □1.	23.59		Mass Conc.	Ujuq/ms
Notes								
Notes								— та
10 —	mps, 'C							TF
10						· Mm	••	
38 2000 <u> </u>					m/\	M		
5				.;	m N	/	JE.	
				10	V V	1	Tony	
0	-						MM	<u>√</u> ₩~
. 13	0						W.Co.	· · · · · ·
-5	The same				-			
	<b>V</b> •							
-10								
0		5		1	I0 Elapsed Time, H	15	20	25
					Elapsed Tillie, Fl			
						- 1		
<u> </u>								
1	N.M							
11/	" "							
							72	
								1

18-20-apr	0:05:08	577	-4.5	-5.0	-0.5	26	16.72
18-20-apr	1:05:08	577	-5.4	-5.9	-0.4	26	16.72
18-20-apr	2:05:08	577	-5.5	-6.2	-0.7	26	16.71
18-20-apr	3:05:08	577	-3.2	-4.3	-1.1	27	16.72
18-20-apr	4:05:08	577	-2.0	-2.3	-0.3	27	16.72
18-20-apr	5:05:08	577	-1.9	-1.9	0.0	27	16.72
18-20-apr	6:05:08	577	-1.8	-1.7	0.2	28	16.73
18-20-apr	7:05:08	577	-1.7	-1.3	0.4	28	16.72
18-20-apr	8:05:08	578	-0.6	0.1	0.7	28	16.72
18-20-apr	9:05:08	578	2.4	2.9	0.5	28	16.71
18-20-apr	10:05:08	579	3.3	4.7	1.4	29	16.72
18-20-apr	11:05:08	580	3.0	4.0	1.0	29	16.71
18-20-apr	12:05:08	580	5.7	6.4	0.7	29	16.71
18-20-apr	13:05:08	582	2.9	4.7	1.9	29	16.72
18-20-apr	14:05:08	582	6.0	7.2	1.1	29	16.71
18-20-apr	15:05:08	582	6.5	8.1	1.5	30	16.72
18-20-apr	16:05:08	583	8.0	9.7	1.7	30	16.72
18-20-apr	17:05:08	583	7.4	9.3	1.9	30	16.70
18-20-apr	18:05:08	584	5.9	7.4	1.5	29	16.72
18-20-apr	19:05:08	584	2.5	3.1	0.6	29	16.72
18-20-apr	20:05:08	584	0.5	0.3	-0.2	28	16.71
18-20-apr	21:05:08	584	-1.6	-1.9	-0.3	28	16.72
18-20-apr	22:05:08	584	-1.4	-2.3	-0.9	28	16.71
18-20-apr	23:05:08	584	-0.3	-2.2	-1.9	28	16.74

BGI PQ200 Air S	amplii	ng Systen	n Downloaded	2018 27 apr 08:5	3:54
Job Details: Job Name: 18Apr27A.JC Version: 5.62 Serial No: 962 Pump Time: :332:22	В	Job Code Site Name Station Code Operators User	e: e: s: 1:		2
Flags:   Unit	-Ig Start:	Date dd-mmm 18-26-apr 18-27-apr 23:59	Time hh:mm:ss 0:00:08 0:00:05	Mass Concentra Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol: Mass Conc:	tion Data: 4 mg mg 0.000 mg 24.038 m^3
Notes 2: Temps, 'C			- 2		— ТА ТЕ
30 25 20 15 10 5 Overheat, TF- TA, 'C 4 3 2 1 0 -1 -2 -3 -4 -5 0 5		Elapsed Time, Hrs	15	20	25 25
SP, cmH20  150  120  90  60  30  0  5		10 Elapsed Time, Hrs	15	20	25

18-26-apr	0:05:08	585	7.0	5.7	-1.2	24	16.71
18-26-apr	1:05:08	585	6.8	5.8	-1.0	24	16.72
18-26-apr	2:05:08	585	6.4	5.6	-0.8	24	16.71
18-26-apr	3:05:08	585	5.9	5.1	-0.7	24	16.72
18-26-apr	4:05:08	585	5.5	4.6	-0.9	24	16.71
18-26-apr	5:05:08	585	6.1	4.7	-1.3	24	16.72
18-26-apr	6:05:08	585	9.5	7.2	-2.3	24	16.71
18-26-apr	7:05:08	586	14.9	13.7	-1.1	26	16.70
18-26-apr	8:05:08	586	16.9	17.5	0.6	26	16.73
18-26-apr	9:05:08	586	18.9	20.4	1.4	27	16.72
18-26-apr	10:05:08	586	20.0	22.1	2.0	28	16.73
18-26-apr	11:05:08	586	20.7	22.7	2.0	28	16.72
18-26-apr	12:05:08	586	21.4	23.3	1.9	28	16.71
18-26-apr	13:05:08	585	22.3	24.4	2.1	28	16.71
18-26-apr	14:05:08	585	22.0	24.8	2.8	28	16.70
18-26-apr	15:05:08	584	22.2	25.4	3.2	28	16.75
18-26-apr	16:05:08	584	21.0	23.7	2.8	28	16.71
18-26-apr	17:05:08	584	20.2	21.2	1.0	27	16.71
18-26-apr	18:05:08	584	18.9	20.6	1.7	28	16.71
18-26-apr	19:05:08	584	16.2	16.2	0.0	27	16.71
18-26-apr	20:05:08	585	13.1	13.2	0.1	27	16.73
18-26-apr	21:05:08	585	8.0	8.6	0.6	27	16.70
18-26-apr	22:05:08	585	9.2	7.4	-1.8	26	16.71
18-26-apr	23:05:08	585	9.6	8.4	-1.1	27	16.75

BGI PQ200 Air Sampling System Downloaded 2018 04 may 12:50:33								
Job Details: Job Name: 18May04A.JOB Version: 5.62 Serial No: 962 Pump Time: :356:21		Job Code Site Name Station Code Operators User1 User2						
Section   Sect	Start:	Date dd-mmm 18-02-may 18-03-may	Time hh:mm:ss 0:00:08 0:00:05	Mass Concen Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol:  Mass Conc:	mg mg mg 0.000 mg 24.045 m^3			
Temps, 'C					— ТА ТБ			
3 2 1 0 -1 -2 0 5 5 Overheat, TF-TA, 'C 4 3 2	10	Elapsed Time, Hrs	15	20	25			
1 0 -1 -2 -3 -4 -5 0 5	10	Elapsed Time, Hrs	15	20	25			
SP, cmH20  120  90  60  30  0  5		10 Elapsed Time, Hrs	15	20	25			

18-02-may	0:05:08	578	-0.2	-0.2	0.0	30	16.73
18-02-may	1:05:08	578	0.3	-0.2	-0.4	30	16.71
18-02-may	2:05:08	578	0.1	-0.1	-0.2	30	16.71
18-02-may	3:05:08	578	-1.4	-1.1	0.3	30	16.71
18-02-may	4:05:08	578	-1.6	-1.6	0.0	30	16.72
18-02-may	5:05:08	578	-1.1	-1.3	-0.2	30	16.71
18-02-may	6:05:08	579	-0.2	-0.4	-0.1	31	16.72
18-02-may	7:05:08	579	-0.2	-0.1	0.1	31	16.72
18-02-may	8:05:08	579	0.6	0.6	0.1	31	16.71
18-02-may	9:05:08	579	1.3	1.6	0.3	31	16.71
18-02-may	10:05:08	579	1.2	1.6	0.4	31	16.71
18-02-may	11:05:08	579	2.2	2.9	0.7	32	16.71
18-02-may	12:05:08	580	8.0	1.9	1.1	32	16.72
18-02-may	13:05:08	580	0.4	0.6	0.2	32	16.71
18-02-may	14:05:08	580	1.3	2.4	1.1	32	16.71
18-02-may	15:05:08	580	1.4	1.9	0.5	32	16.69
18-02-may	16:05:08	580	1.4	1.3	-0.1	32	16.74
18-02-may	17:05:08	580	0.2	0.4	0.2	32	16.71
18-02-may	18:05:08	581	0.1	0.3	0.1	32	16.72
18-02-may	19:05:08	582	0.1	0.2	0.1	32	16.72
18-02-may	20:05:08	582	0.2	0.2	0.0	32	16.71
18-02-may	21:05:08	582	0.3	0.2	-0.1	32	16.71
18-02-may	22:05:08	582	0.3	0.2	-0.1	33	16.71
18-02-may	23:05:08	582	0.2	0.1	-0.1	32	16.72

	BGI PQ200 Air Sampling System Downloaded 2018 09 may 09:28:20										
Job D	Details: Job Name: 18May09A.JOB Version: 5.62 Serial No: 962 Pump Time: :380:20		Job Code Site Name Station Code Operators User	e: e: s: 1:							
1	Flags:    Max   Min   Avg   Units     588   585   586     28   7.3   17.4       16.71     Lpm     0.58 %     overheat   4 °C     occured   08-may   19:19:01     Notes   1:     Notes   2:	Start:	User2 Information:  Date dd-mmm 18-08-may 18-09-may	Time hh:mm:ss 0:00:08 0:00:05	Mass Concent Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol:  Mass Conc:	ration Data: 22 mg mg 0.000 24.044 m^3					
	Temps, 'C					— ТА ТЕ					
30 25		ستنذب	~~~~~	Mund	·.						
20		محمم			<u> </u>						
15 10					Marin	~ <u>~</u>					
5	. Junior										
	0 5	1	0 Elapsed Time, Hrs	15	20	25					
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18-08-may	0:05:08	587	9.4	8.0	-1.4	28	16.72
18-08-may	1:05:08	587	8.7	7.8	-0.9	29	16.72
18-08-may	2:05:08	586	8.2	7.4	-0.8	29	16.71
18-08-may	3:05:08	586	8.1	7.1	-1.0	29	16.72
18-08-may	4:05:08	586	8.0	7.0	-1.0	29	16.72
18-08-may	5:05:08	587	8.9	7.3	-1.6	29	16.71
18-08-may	6:05:08	587	12.7	10.3	-2.4	30	16.71
18-08-may	7:05:08	587	19.2	17.3	-1.9	31	16.72
18-08-may	8:05:08	587	21.4	21.4	0.0	32	16.72
18-08-may	9:05:08	587	22.9	24.0	1.1	33	16.72
18-08-may	10:05:08	587	24.2	25.7	1.5	34	16.71
18-08-may	11:05:08	587	24.6	26.7	2.1	34	16.71
18-08-may	12:05:08	587	25.7	27.5	1.8	34	16.71
18-08-may	13:05:08	586	26.4	28.4	2.1	35	16.72
18-08-may	14:05:08	586	26.9	28.9	2.0	35	16.71
18-08-may	15:05:08	586	26.7	29.0	2.3	35	16.71
18-08-may	16:05:08	585	26.2	28.4	2.2	35	16.72
18-08-may	17:05:08	585	24.9	26.9	2.0	34	16.71
18-08-may	18:05:08	586	22.1	23.4	1.3	34	16.71
18-08-may	19:05:08	586	15.0	17.1	2.1	34	16.71
18-08-may	20:05:08	586	12.8	13.0	0.1	33	16.71
18-08-may	21:05:08	586	11.8	11.3	-0.5	33	16.71
18-08-may	22:05:08	586	11.4	10.6	-0.7	33	16.71
18-08-may	23:05:08	586	10.7	10.0	-0.7	33	16.70

BGI PQ200	Air Sampli	ing Syste	m Downloaded	2018 15 may	10:45:48
Job Details: Job Name: 18 Version: Serial No: Pump Time: :40 Flags:	5.62 962	Job Coo Site Nam Station Coo Operato Usel Use	ne: de: rs: r1:		
	582 mmHg 10 °C 16.7 Lpm Star 0.56 % Stor	Date dd-mmm t: 18-14-may or 18-15-may	Time hh:mm:ss 0:00:08 0:00:04	Mass Concer Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol: Mass Conc:	mg mg mg mg 24.035 m^3
Temps, 'C 25 20 15	(in the state of	~~~~~	w www.		— TA
0 0	5	10 Elapsed Time, Hr	15 s	20	25
Overheat, TF- TA, 'C 4 3 2 1 0 -1 -2 -3 -4 -5	5	10 Elapsed Time, Hrs	15	20	25
SP, cmH20 120 90 60 30 0	5	10 Elapsed Time, Hrs	15	20	25

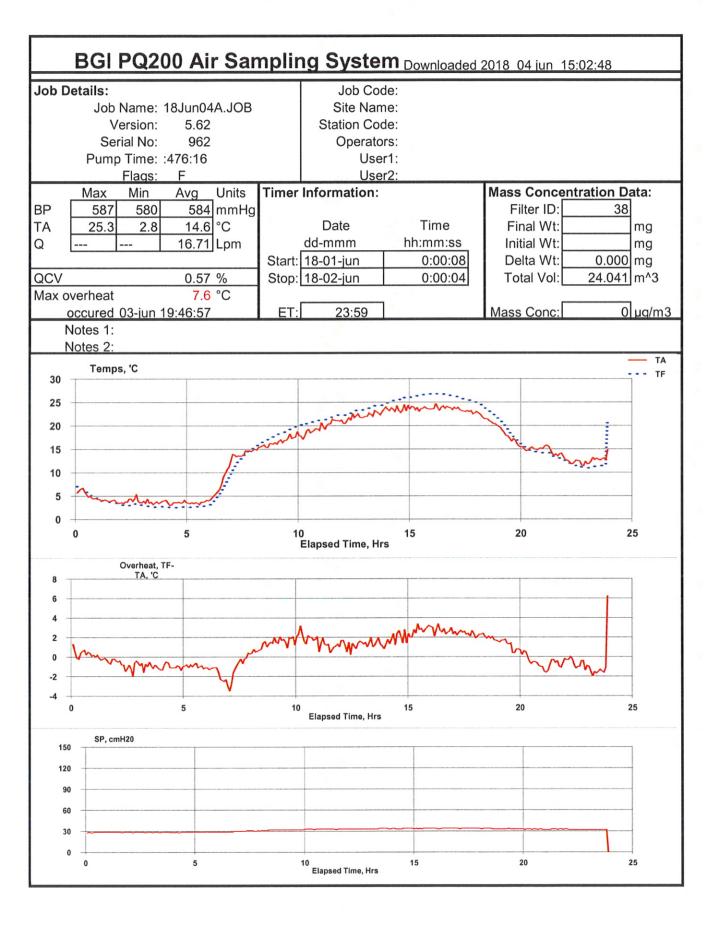
Value and the second se							
18-14-may	0:05:08	582	4.6	4.2	-0.4	25	16.71
18-14-may	1:05:08	582	3.4	3.2	-0.3	25	16.70
18-14-may	2:05:08	582	2.8	2.5	-0.4	25	16.70
18-14-may	3:05:08	582	2.0	1.6	-0.4	25	16.72
18-14-may	4:05:08	582	1.9	1.3	-0.7	25	16.72
18-14-may	5:05:08	582	1.8	1.2	-0.6	25	16.70
18-14-may	6:05:08	582	4.7	3.1	-1.6	26	16.71
18-14-may	7:05:08	583	10.3	9.9	-0.4	27	16.73
18-14-may	8:05:08	583	11.8	13.0	1.3	28	16.70
18-14-may	9:05:08	583	13.0	15.0	2.1	28	16.71
18-14-may	10:05:08	583	14.0	16.2	2.2	28	16.72
18-14-may	11:05:08	584	14.4	16.3	2.0	28	16.71
18-14-may	12:05:08	583	15.5	17.2	1.7	29	16.71
18-14-may	13:05:08	583	16.4	18.4	2.0	29	16.71
18-14-may	14:05:08	583	17.4	19.7	2.3	29	16.71
18-14-may	15:05:08	582	16.4	18.9	2.6	29	16.71
18-14-may	16:05:08	582	16.1	17.6	1.5	29	16.71
18-14-may	17:05:08	582	16.2	18.1	1.8	29	16.72
18-14-may	18:05:08	582	15.2	16.4	1.2	29	16.72
18-14-may	19:05:08	582	11.0	12.5	1.5	28	16.71
18-14-may	20:05:08	583	6.5	7.2	0.7	28	16.71
18-14-may	21:05:08	583	7.3	6.0	-1.3	27	16.71
18-14-may	22:05:08	583	8.7	7.3	-1.4	27	16.71
18-14-may	23:05:08	583	8.3	7.2	-1.1	28	16.72

BGI PQ200 Air San	nplir	ng Syster	n Downloaded	2018 22 may 1	2:07:46
Job Details: Job Name: 18May22A.JOB Version: 5.62 Serial No: 962 Pump Time: :428:18		Job Cod Site Nam Station Cod Operator User	e: le: rs:		
Flags: Max Min Avg Units S84 581 582 mmHg C C C C C C C C C	Start:	User Information: Date dd-mmm 18-20-may 18-21-may	Time hh:mm:ss 0:00:08 0:00:04	Mass Concen Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol: Mass Conc:	tration Data: 17 mg mg 0.000 24.041 m/3
Man		m Mar	W		
Overheat, TF-					

0:05:08	583	9.7	8.0	-1.7	29	16.72
1:05:08	582	9.2	8.1	-1.1	29	16.71
2:05:08	582	8.6	7.5	-1.1	30	16.72
3:05:08	582	5.5	5.5	0.0	29	16.70
4:05:08	582	4.3	4.1	-0.1	29	16.72
5:05:08	582	3.7	3.2	-0.5	29	16.72
6:05:08	583	7.6	5.8	-1.8	30	16.72
7:05:08	583	12.8	11.5	-1.4	31	16.71
8:05:08	583	16.6	17.2	0.6	32	16.70
9:05:08	583	17.4	19.3	1.9	32	16.72
10:05:08	583	18.5	20.6	2.1	33	16.73
11:05:08	583	19.0	21.1	2.1	33	16.70
12:05:08	582	19.4	21.0	1.6	33	16.71
13:05:08	582	19.3	20.6	1.3	33	16.70
14:05:08	582	20.3	22.1	1.7	33	16.71
15:05:08	582	20.2	22.1	1.9	33	16.71
16:05:08	581	18.7	20.9	2.2	33	16.71
17:05:08	581	17.7	19.2	1.5	33	16.70
18:05:08	581	17.5	18.9	1.4	33	16.71
19:05:08	581	11.4	13.2	1.8	32	16.71
20:05:08	581	9.0	9.3	0.3	32	16.71
21:05:08	582	8.2	7.9	-0.3	32	16.71
22:05:08	582	7.2	6.9	-0.3	31	16.71
23:05:08	582	7.3	6.6	-0.6	31	16.71
	1:05:08 2:05:08 3:05:08 4:05:08 5:05:08 6:05:08 7:05:08 8:05:08 9:05:08 10:05:08 11:05:08 12:05:08 14:05:08 15:05:08 16:05:08 17:05:08 18:05:08 19:05:08 20:05:08 21:05:08	1:05:08 582 2:05:08 582 3:05:08 582 4:05:08 582 5:05:08 582 6:05:08 583 7:05:08 583 8:05:08 583 9:05:08 583 10:05:08 583 11:05:08 583 12:05:08 582 13:05:08 582 15:05:08 582 15:05:08 582 16:05:08 581 17:05:08 581 19:05:08 581 20:05:08 581 21:05:08 582 22:05:08 582	1:05:08 582 9.2 2:05:08 582 8.6 3:05:08 582 5.5 4:05:08 582 4.3 5:05:08 582 3.7 6:05:08 583 7.6 7:05:08 583 12.8 8:05:08 583 16.6 9:05:08 583 17.4 10:05:08 583 19.0 12:05:08 583 19.0 12:05:08 582 19.4 13:05:08 582 19.3 14:05:08 582 20.3 15:05:08 582 20.2 16:05:08 581 18.7 17:05:08 581 17.7 18:05:08 581 17.5 19:05:08 581 11.4 20:05:08 581 9.0 21:05:08 582 7.2	1:05:08 582 9.2 8.1 2:05:08 582 8.6 7.5 3:05:08 582 5.5 5.5 4:05:08 582 4.3 4.1 5:05:08 582 3.7 3.2 6:05:08 583 7.6 5.8 7:05:08 583 12.8 11.5 8:05:08 583 12.8 11.5 8:05:08 583 16.6 17.2 9:05:08 583 17.4 19.3 10:05:08 583 19.0 21.1 12:05:08 582 19.4 21.0 13:05:08 582 19.3 20.6 14:05:08 582 19.3 20.6 14:05:08 582 20.3 22.1 15:05:08 582 20.2 22.1 16:05:08 581 18.7 20.9 17:05:08 581 17.5 18.9 19:05:08 581 17.5 18.9 19:05:08 581 11.4 13.2 <	1:05:08 582 9.2 8.1 -1.1 2:05:08 582 8.6 7.5 -1.1 3:05:08 582 5.5 5.5 0.0 4:05:08 582 4.3 4.1 -0.1 5:05:08 582 3.7 3.2 -0.5 6:05:08 583 7.6 5.8 -1.8 7:05:08 583 12.8 11.5 -1.4 8:05:08 583 16.6 17.2 0.6 9:05:08 583 17.4 19.3 1.9 10:05:08 583 18.5 20.6 2.1 11:05:08 583 19.0 21.1 2.1 12:05:08 582 19.3 20.6 1.3 14:05:08 582 19.3 20.6 1.3 14:05:08 582 19.3 20.6 1.3 14:05:08 582 20.3 22.1 1.7 15:05:08 582 20.2 22.1 1.9 16:05:08 581 17.7 19.2 1.5	1:05:08 582 9.2 8.1 -1.1 29 2:05:08 582 8.6 7.5 -1.1 30 3:05:08 582 5.5 5.5 0.0 29 4:05:08 582 4.3 4.1 -0.1 29 5:05:08 582 3.7 3.2 -0.5 29 6:05:08 583 7.6 5.8 -1.8 30 7:05:08 583 12.8 11.5 -1.4 31 8:05:08 583 16.6 17.2 0.6 32 9:05:08 583 17.4 19.3 1.9 32 10:05:08 583 18.5 20.6 2.1 33 11:05:08 583 19.0 21.1 2.1 33 12:05:08 582 19.4 21.0 1.6 33 13:05:08 582 19.3 20.6 1.3 33 14:05:08 582 20.2 22.1 </td

BGI PQ200 Air San	nplir	ng System	Downloaded	2018 29 may 10:	15:20
Job Details: Job Name: 18May29A.JOB Version: 5.62 Serial No: 962 Pump Time: :452:17		Job Code: Site Name: Station Code: Operators: User1:			9.
Flags: Max Min Avg Units	Timer	User2:		Mass Concentra	ition Data:
BP 583 578 581 mmHg TA 21.1 2.5 13.2 °C Q 16.71 Lpm		dd-mmm 18-26-may	Time hh:mm:ss 0:00:08	Filter ID: Final Wt: Initial Wt: Delta Wt:	33 mg mg 0.000 mg
QCV 0.54 % Max overheat 4.7 °C	Stop:	18-27-may	0:00:05	Total Vol:	24.036 m^3
occured 27-may 15:07:07	ET:	23:59		Mass Conc:	0 µg/m3
Notes 1:					
Notes 2:					
Temps, 'C					— та тғ
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10				Mary John John	
5					ti
0 5	10	0 Elapsed Time, Hrs	15	20	25
Overheat, TF- TA, 'C					
3					
1	My	~~~~~~~~~~~~~	WWW_	MMA M	√ ^
·1 .2 M					
3 4					
0 5	10	Elapsed Time, Hrs	15	20	25
SP, cmH20					
120					
90					
60					
30					
0 0 5		10	15	20	25
, ,		Elapsed Time, Hrs	10		

18-26-may	0:05:08	583	9.1	5.9	-3.2	26	16.70
18-26-may	1:05:08	583	11.2	8.0	-3.2	27	16.72
18-26-may	2:05:08	582	11.6	9.0	-2.6	27	16.70
18-26-may	3:05:08	582	11.3	9.8	-1.5	27	16.71
18-26-may	4:05:08	582	10.6	9.1	-1.5	27	16.72
18-26-may	5:05:08	582	10.3	8.9	-1.5	27	16.72
18-26-may	6:05:08	582	11.5	10.9	-0.6	28	16.72
18-26-may	7:05:08	582	13.1	13.7	0.6	29	16.71
18-26-may	8:05:08	582	14.2	15.3	1.1	29	16.71
18-26-may	9:05:08	582	15.1	16.6	1.5	29	16.71
18-26-may	10:05:08	582	15.7	17.2	1.4	29	16.72
18-26-may	11:05:08	581	17.0	17.9	0.9	29	16.71
18-26-may	12:05:08	581	17.9	18.7	0.8	30	16.71
18-26-may	13:05:08	580	18.8	19.7	0.9	30	16.71
18-26-may	14:05:08	580	19.2	20.5	1.3	30	16.71
18-26-may	15:05:08	579	19.9	21.7	1.8	30	16.71
18-26-may	16:05:08	579	18.9	21.1	2.2	30	16.70
18-26-may	17:05:08	580	16.2	17.4	1.2	30	16.68
18-26-may	18:05:08	580	15.6	16.7	1.1	30	16.69
18-26-may	19:05:08	580	11.6	13.2	1.6	29	16.71
18-26-may	20:05:08	580	8.0	8.4	0.4	29	16.72
18-26-may	21:05:08	581	8.1	7.4	-0.8	29	16.70
18-26-may	22:05:08	581	7.2	7.2	0.0	29	16.72
18-26-may	23:05:08	581	4.1	4.8	0.6	28	16.71



18-01-jun	0:05:08	582	5.3	5.7	0.4	29	16.71
18-01-jun	1:05:08	582	3.9	3.7	-0.2	29	16.72
18-01-jun	2:05:08	582	4.0	3.1	-0.9	29	16.70
18-01-jun	3:05:08	582	3.7	2.7	-1.0	29	16.72
18-01-jun	4:05:08	583	3.6	2.6	-1.0	29	16.71
18-01-jun	5:05:08	583	3.6	2.7	-0.9	29	16.71
18-01-jun	6:05:08	583	7.7	6.0	-1.8	29	16.73
18-01-jun	7:05:08	584	14.1	13.2	-0.9	30	16.72
18-01-jun	8:05:08	585	15.7	16.7	1.0	32	16.74
18-01-jun	9:05:08	585	17.2	18.9	1.7	32	16.73
18-01-jun	10:05:08	585	18.6	20.6	2.1	33	16.72
18-01-jun	11:05:08	585	20.6	21.7	1.1	33	16.71
18-01-jun	12:05:08	585	21.6	22.8	1.2	33	16.71
18-01-jun	13:05:08	585	22.7	24.1	1.4	33	16.71
18-01-jun	14:05:08	585	23.5	25.4	1.9	34	16.71
18-01-jun	15:05:08	585	23.7	26.4	2.7	34	16.71
18-01-jun	16:05:08	585	23.8	26.6	2.7	34	16.72
18-01-jun	17:05:08	585	23.2	25.7	2.4	34	16.71
18-01-jun	18:05:08	586	21.4	23.5	2.0	34	16.71
18-01-jun	19:05:08	586	17.7	18.9	1.2	33	16.72
18-01-jun	20:05:08	586	15.1	14.9	-0.2	33	16.72
18-01-jun	21:05:08	587	14.5	13.6	-0.9	33	16.71
18-01-jun	22:05:08	587	12.2	11.6	-0.6	32	16.72
18-01-jun	23:05:08	587	12.6	11.2	-1.4	32	16.71
18-03-jun	20:04:08	586	14.8	21.0	6.2		0.00

BGI PQ200 Air Sar	mpling System Downloaded	2018 08 jun 11:58:03
Job Details: Job Name: 18Jun08A.JOB Version: 5.62 Serial No: 962 Pump Time: :500:15	Job Code: Site Name: Station Code: Operators: User1: User2:	
Flags: Max Min Avg Units	Timer Information:	Mass Concentration Data: Filter ID: 11 Final Wt: mg Initial Wt: 0.000 Total Vol: 24.04 Mass Conc: 0 µg/m3
Temps, 'C 30 25 20 15 10 5 0 5	10 15 Elapsed Time, Hrs	— TA TF
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18-07-jun	0:05:08	583	9.4	8.7	-0.7	24	16.72
18-07-jun	1:05:08	583	8.5	7.9	-0.6	24	16.72
18-07-jun	2:05:08	583	7.9	7.3	-0.6	24	16.71
18-07-jun	3:05:08	583	7.2	6.6	-0.6	24	16.72
18-07-jun	4:05:08	584	6.7	6.0	-0.7	24	16.71
18-07-jun	5:05:08	584	5.8	5.1	-0.7	24	16.72
18-07-jun	6:05:08	584	11.1	8.7	-2.3	25	16.71
18-07-jun	7:05:08	585	17.7	16.5	-1.2	26	16.70
18-07-jun	8:05:08	585	19.3	20.1	0.8	27	16.72
18-07-jun	9:05:08	585	20.5	21.7	1.3	27	16.72
18-07-jun	10:05:08	585	21.9	23.1	1.2	28	16.72
18-07-jun	11:05:08	585	22.7	23.9	1.3	28	16.71
18-07-jun	12:05:08	585	24.0	24.9	0.9	28	16.71
18-07-jun	13:05:08	585	24.7	26.0	1.3	28	16.72
18-07-jun	14:05:08	585	25.7	27.2	1.5	28	16.73
18-07-jun	15:05:08	584	26.1	27.8	1.8	28	16.72
18-07-jun	16:05:08	584	25.5	27.6	2.1	28	16.71
18-07-jun	17:05:08	584	24.9	26.8	1.9	28	16.71
18-07-jun	18:05:08	584	21.5	22.8	1.3	28	16.71
18-07-jun	19:05:08	584	16.9	18.2	1.3	27	16.72
18-07-jun	20:05:08	585	13.2	13.9	0.6	27	16.69
18-07-jun	21:05:08	585	11.6	11.6	0.0	27	16.72
18-07-jun	22:05:08	585	11.0	10.5	-0.5	27	16.71
18-07-jun	23:05:08	586	9.9	9.4	-0.5	27	16.71

BGI PQ200 Air Sa	mpling System Downloaded 2018 14 jun 14:10:30	
Job Details: Job Name: 18Jun14A.JOB Version: 5.62 Serial No: 962 Pump Time: :524:14 Flags:	Job Code: Site Name: 962A Station Code: Operators: KN User1: User2:	
Max Min Avg Units BP 586 583 584 mmHg TA 31 9.5 20.2 °C Q 16.71 Lpm  QCV 0.56 %  Max overheat 4.2 °C occured 13-jun 19:41:49 Notes 1: Notes 2:	Timer Information:   Mass Concentration Data   Filter ID:   22	ng ng ng
Motes 2.		
Overheat, TF-		

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18-13-jun	0:05:08	585	12.0	11.5	-0.5	26	16.71
18-13-jun	1:05:08	585	11.5	10.5	-1.0	26	16.72
18-13-jun	2:05:08	585	12.1	11.0	-1.1	26	16.71
18-13-jun	3:05:08	585	12.1	11.1	-1.0	26	16.73
18-13-jun	4:05:08	585	10.7	10.2	-0.4	26	16.71
18-13-jun	5:05:08	585	10.3	9.6	-0.7	26	16.72
18-13-jun	6:05:08	585	13.8	12.4	-1.4	26	16.72
18-13-jun	7:05:08	586	22.2	19.7	-2.4	27	16.71
18-13-jun	8:05:08	586	24.9	25.3	0.4	29	16.71
18-13-jun	9:05:08	586	27.2	28.2	1.0	30	16.72
18-13-jun	10:05:08	585	28.1	29.5	1.4	30	16.72
18-13-jun	11:05:08	585	28.4	29.7	1.3	30	16.71
18-13-jun	12:05:08	585	29.2	30.0	8.0	31	16.71
18-13-jun	13:05:08	585	29.0	30.3	1.3	31	16.71
18-13-jun	14:05:08	585	28.8	30.7	1.8	31	16.71
18-13-jun	15:05:08	584	28.7	30.5	1.9	31	16.70
18-13-jun	16:05:08	584	29.2	31.1	1.9	31	16.71
18-13-jun	17:05:08	584	28.1	30.1	2.0	31	16.70
18-13-jun	18:05:08	584	25.5	26.9	1.4	30	16.71
18-13-jun	19:05:08	584	20.3	22.6	2.3	30	16.71
18-13-jun	20:05:08	584	14.6	15.5	1.0	29	16.71
18-13-jun	21:05:08	584	13.1	13.0	-0.1	29	16.71
18-13-jun	22:05:08	584	12.2	11.6	-0.6	29	16.72
18-13-jun	23:05:08	584	11.5	10.8	-0.7	28	16.71

BGI PQ200 Air Sai	npling System Downloaded 2018 22 jun 09:15:20
Job Details:  Job Name: 18Jun22A.JOB  Version: 5.62  Serial No: 962  Pump Time: :548:13  Flags: F	Job Code: Site Name: 962A Station Code: Operators: KN User1: User2:
Max Min Avg Units BP 587 583 585 mmHg TA 27.7 5 16.8 °C Q 16.71 Lpm  QCV 0.6 %  Max overheat 9.2 °C occured 21-jun 20:01:14  Notes 1: Notes 2:	Timer Information: Mass Concentration Data:
Temps, 'C  30  25  20  15  10  0  5	10 15 20 25 Elapsed Time, Hrs
man de la companya de	M M M M M M M M M M M M M M M M M M M

18-19-jun	0:05:08	584	8.2	7.2	-0.9	31	16.73
18-19-jun	1:05:08	584	7.0	6.3	-0.7	31	16.70
18-19-jun	2:05:08	585	6.3	5.6	-0.7	31	16.73
18-19-jun	3:05:08	585	6.8	5.7	-1.1	31	16.73
18-19-jun	4:05:08	585	6.4	5.6	-0.8	31	16.73
18-19-jun	5:05:08	585	5.9	5.0	-0.9	31	16.71
18-19-jun	6:05:08	585	11.2	9.1	-2.1	32	16.71
18-19-jun	7:05:08	586	17.7	16.3	-1.4	33	16.72
18-19-jun	8:05:08	586	19.9	20.6	0.7	34	16.72
18-19-jun	9:05:08	586	20.9	22.7	1.8	35	16.72
18-19-jun	10:05:08	586	23.0	24.6	1.6	35	16.72
18-19-jun	11:05:08	586	24.0	25.7	1.6	35	16.72
18-19-jun	12:05:08	585	25.0	26.4	1.4	35	16.72
18-19-jun	13:05:08	585	25.4	27.0	1.6	36	16.71
18-19-jun	14:05:08	585	26.2	27.8	1.6	36	16.72
18-19-jun	15:05:08	585	26.3	28.6	2.3	36	16.72
18-19-jun	16:05:08	585	26.0	28.3	2.4	36	16.71
18-19-jun	17:05:08	585	25.2	27.7	2.5	36	16.72
18-19-jun	18:05:08	585	23.9	25.9	2.0	36	16.72
18-19-jun	19:05:08	585	20.3	22.0	1.6	35	16.72
18-19-jun	20:05:08	586	13.3	15.1	1.8	35	16.71
18-19-jun	21:05:08	586	11.6	11.6	0.1	35	16.71
18-19-jun	22:05:08	586	11.0	10.3	-0.6	35	16.71
18-19-jun	23:05:08	586	11.1	10.1	-1.0	34	16.71
18-21-jun	20:13:09	585	14.5	22.4	7.9		0.00

# Compliance Monitor 963B

# PM₁₀ Sampler Summary

# April 1, 2018 - June 30, 2018

Network: Alton Coal Development

Site: Coal Hollow

Sampler ID: Coal Hollow-B

AQS ID:

Sampler Type: BGI FRM Single

Comments SP,CI,HT Flag 노 노 0.148 900.0 0.265 1.496 0.155 0.435 0.404 0.159 0.338 1.211 0.770 0.585 (mg) 1.055 0.480 1.552 0.877 373.610 373.616 370.040 374.625 375.568 370.170 377.314 372.143 373.239 369.358 373.160 370.372 368.994 372.011 376.167 375.941 373.821 Gross (mg) 370.515 370.213 372.974 369.885 375.763 373.012 373.748 372.610 371.373 375.230 375.762 368.409 368.923 374.886 369.690 (mg) Tare Volume 19.5 19.0 (m3) 48.8 20.0 19.4 19.5 19.4 19.3 19.3 18.9 Std 19.2 19.2 20.1 20.1 19.1 Ξ Sample Volume (m3) 24.0 59.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 Max 81.1 Sample hr:min) St. Dev. Period 23:59 58:55 23:59 23:59 23:59 23:59 23:59 23:59 23:59 23:59 23:59 23:59 23:59 23:59 22.9 Field Blank Concentration Invalid - AG Average (hg/m3) STP 13.5 21.6 20.8 54.9 44.9 17.5 24.9 64.0 81.1 40.1 30.8 8.2 7.3 Concentration Invalid - AG Recovery (hg/m3) 11.0 LTP 18.0 16.8 43.9 36.4 14.0 19.9 64.5 32.0 50.4 93% 9.9 6.1 P2947089 P2947099 P2947558 P2947770 P2947775 P2948032 P2948038 P2946889 P2947094 P2947324 P2947330 P2947564 P2947780 P2948231 P2948237 P2947334 # Valid Filter 14 0 05/04/18 04/02/18 04/08/18 04/20/18 04/26/18 05/08/18 05/14/18 05/20/18 05/26/18 06/01/18 04/14/18 05/02/18 06/07/18 06/13/18 06/19/18 06/25/18 Date

Inter-Mountain Laboratories' (IML) data validation is limited by the provided information. Data have been validated based on laboratory QC, field observations and other information available to IML. Additional data validation based on information not provided to IML may be required. According to 40 CFR 58.15 final responsibilities for data review and validation lies with each agency submitting data to AQS.

BGI PQ200 Air Sar	npling Systen	n _{Downloaded 2}	018 05 apr 10:	47:36
Job Details:  Job Name: 18Apr05B.JOB  Version: 5.62  Serial No: 963  Pump Time: 6010:52	Job Code Site Name Station Code Operators User	e: e:	+++++++++++++++++++++++++++++++++++++++	++++
Flags:  Max Min Avg Units	User2 Timer Information:	2:	Mass Concenti	ration Data:
BP 586 583 584 mmHg TA 17.8 -0.8 8.6 °C Q 16.7 Lpm	Date dd-mmm Start: 18-02-apr	Time hh:mm:ss 0:00:08	Filter ID: Final Wt: Initial Wt: Delta Wt:	17 mg mg 0.000 mg
QCV 0.55 % Max overheat 2.5 °C	Stop: 18-03-apr	0:00:05	Total Vol:	24.04 m^3
occured 02-apr 14:19:13	ET: 23:59		Mass Conc:	0 µg/m3
Notes 1: Notes 2:				
Temps, 'C				— та тғ
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10	المسميا		in Junion	
5				<u>`</u>
-5				
0 5	10 Elapsed Time, Hrs	15	20	25
Overheat, TF- TA, 'C				
3				
1 0	My www	hyphy		
-1 -2 -3			My / "	
-4 -5 0 5	10	15	20	25
SP, cmH20	Elapsed Time, Hrs			
150				
90				
60				
30				
0 5	10 Elapsed Time, Hrs	15	20	25

18-02-apr	0:05:08	586	2.5	0.7	-1.8	29	16.71
18-02-apr	1:05:08	586	2.6	0.7	-1.9	30	16.71
18-02-apr	2:05:08	585	1.9	0.4	-1.5	30	16.71
18-02-apr	3:05:08	585	1.5	0.2	-1.3	30	16.71
18-02-apr	4:05:08	585	0.8	-0.7	-1.5	30	16.70
18-02-apr	5:05:08	585	0.4	-0.9	-1.3	30	16.71
18-02-apr	6:05:08	585	1.4	-0.6	-1.9	30	16.72
18-02-apr	7:05:08	585	8.3	5.1	-3.2	31	16.71
18-02-apr	8:05:08	585	10.9	10.1	-0.8	32	16.71
18-02-apr	9:05:08	585	12.0	12.6	0.6	32	16.71
18-02-apr	10:05:08	585	13.6	14.3	0.7	33	16.71
18-02-apr	11:05:08	584	14.8	15.4	0.6	33	16.71
18-02-apr	12:05:08	584	15.9	16.4	0.6	33	16.72
18-02-apr	13:05:08	584	16.4	17.6	1.3	34	16.72
18-02-apr	14:05:08	584	15.3	16.3	1.1	34	16.70
18-02-apr	15:05:08	583	15.0	15.9	0.8	34	16.70
18-02-apr	16:05:08	583	13.6	13.7	0.1	33	16.71
18-02-apr	17:05:08	583	12.8	12.4	-0.4	33	16.71
18-02-apr	18:05:08	583	11.6	11.3	-0.4	33	16.70
18-02-apr	19:05:08	584	8.9	8.0	-0.9	33	16.71
18-02-apr	20:05:08	584	8.5	6.7	-1.8	32	16.71
18-02-apr	21:05:08	585	8.3	7.4	-0.9	32	16.70
18-02-apr	22:05:08	585	5.2	5.0	-0.2	32	16.71
18-02-apr	23:05:08	586	3.6	2.8	-0.7	32	16.70

Notes 1: Notes 2:  Temps, 'C  15 10 5 0 10 20 Elapsed Time, Hrs  Overheat, TF- TA, 'C  TA, 'C  10 10 10 10 10 10 10 10 10 10 10 10 10	Q200 Air Sampling System Downloaded 2018 10 apr 10:58:25
Job Name: 18Apr10B.JOB   Version: 5.62   Serial No: 963   Operators: User1:   User2:   User2:   User1:   User2:   User3:   User4:   Filar ID: 27   Final Wt:   mg   Max	.loh Code·
Version: 5.62   Serial No: 963   Operators: User2:   User2:   User2:	
Serial No: 963	
Pump Time: 6069:47   User1:	
Flags:   User2:   User2:     User3:     User5:     User5:     User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   User5:   Us	
Max   Min   Avg   Units   Filter   Information:   Mass Concentration Data:   Filter   ID:   27	
BP	
TA	
QCV	
Start: 18-08-apr 0:00:08 Stop: 18-10-apr 10:55:11 Total Vol: 59.022 m^3  Max overheat 2.7 °C occured 09-apr 15:15:43 ET: 58:55:00 Mass Conc: 0 µq/n  Notes 1: Notes 2:  Temps, 'C  15  10  5  Overheat, TF- TA. 'C  TA. 'C  Overheat, TF- TA. 'C  Total Vol: 0.000 mg Total Vol: 59.022 m^3  Mass Conc: 0 µq/n  Total Vol: 59.022 m^3  Mass Conc: 0 µq/n  Total Vol: 59.022 m^3	
Stop:   18-10-apr   10:55:11   Total Vol:   59.022   m^3	
Max overheat 2.7 °C occured 09-apr 15:15:43 ET: 58:55:00 Mass Conc: 0 µg/n  Notes 1: Notes 2:  Temps, 'C  10  5  0  10  20  Elapsed Time, Hrs  Overheat, TF- TA, C  TA, C	
Occured 09-apr 15:15:43  Notes 1: Notes 2:  Temps, 'C  10 5 0 10 20 30 Elapsed Time, Hrs  Overheat, TF- TA, C  11 12 13 14 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	
Notes 1: Notes 2:  Temps, 'C  15  10  5  0  10  20  Elapsed Time, Hrs  Overheat, TF- TA, 'C  TA, 'C  10  11  10  11  11  11  12  TA, 'C  TA, '	
Notes 2:  Temps, 'C  15  10  5  0  10  20  Elapsed Time, Hrs  Overheat, TF- TA, 'C  11  12  13  14  15  16  17  17  17  18  18  18  18  18  18  18	9-apr 15:15:43 ET: 58:55:00 Mass Conc: 0 µg/m3
Temps, 'C  15  10  5  0  10  20  30  Elapsed Time, Hrs  Overheat, TF- TA, 'C  4  3  2  1  1  1  1  1  1  1  1  1  1  1  1	
Temps, 'C  20  15  10  5  0  10  20  Elapsed Time, Hrs  Overheat, TF- TA, 'C  4  3  2  1  1  1  1  1  1  1  1  1  1  1  1	
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5 0 10 20 30 40 50 60  Elapsed Time, Hrs	
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0 10 20 30 40 50 60  Elapsed Time, Hrs  Overheat, TF- TA, 'C  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ar resultant
Overheat, TF- TA, 'C  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 20 30 40 50 60 Elapsed Time, Hrs
TA, 'C  TA, 'C	
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2 My Market Mark	
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	WIND A COMPANIENT OF THE PROPERTY OF THE PROPE
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0 10 20 30 40 50 60	10 20 30 40 50 60
Elapsed Time, Hrs	Elapsed Time, Hrs
SP, cmH20	20
150	
120	
90	
60	
30	
0	
0 10 20 30 40 50 60 Elapsed Time, Hrs	10 20 30 40 50 60 Elapsed Time, Hrs

10.00							
18-08-apr	0:05:08	585	8.9	7.5	-1.4	30	16.71
18-08-apr	1:05:08	585	6.9	5.9	-1.1	31	16.71
18-08-apr	2:05:08	585	5.3	3.5	-1.7	30	16.71
18-08-apr	3:05:08	585	4.8	2.8	-2.1	30	16.70
18-08-apr	4:05:08	586	3.1	1.2	-1.9	30	16.71
18-08-apr	5:05:08	586	0.0	-1.3	-1.3	30	16.71
18-08-apr	6:05:08	587	-0.2	-2.0	-1.8	30	16.71
18-08-apr	7:05:08	587	5.1	2.5	-2.5	31	16.72
18-08-apr	8:05:08	587	8.5	7.8	-0.8	32	16.71
18-08-apr	9:05:08	588	10.3	10.9	0.6	33	16.71
18-08-apr	10:05:08	588	11.5	12.9	1.4	34	16.71
18-08-apr	11:05:08	588	12.3	13.5	1.2	34	16.71
18-08-apr	12:05:08	588	13.1	13.8	0.7	34	16.71
18-08-apr	13:05:08	588	14.6	15.4	0.7	34	16.69
18-08-apr	14:05:08	588	14.8	16.3	1.5	34	16.70
18-08-apr	15:05:08	589	14.8	16.4	1.6	34	16.71
18-08-apr	16:05:08	589	14.4	15.8	1.3	34	16.71
18-08-apr	17:05:08	589	13.6	15.0	1.4	34	16.71
18-08-apr	18:05:08	589	10.5	10.9	0.4	33	16.71
18-08-apr	19:05:08	589	7.4	6.7	-0.7	33	16.71
18-08-apr	20:05:08	589	5.4	4.0	-1.3	32	16.71
18-08-apr	21:05:08	590	5.3	3.4	-1.9	32	16.71
18-08-apr	22:05:08	590	1.6	0.8	-0.8	32	16.70
18-08-apr	23:05:08	590	1.4	-0.5	-1.9	32	16.71
18-09-apr	0:05:08	591	0.0	-1.5	-1.5	32	16.71
18-09-apr	1:05:08	591	3.1	0.0	-3.1	32	16.71
18-09-apr	2:05:08	591	3.5	0.7	-2.8	32	16.71
18-09-apr	3:05:08	591	4.5	2.3	-2.2	32	16.71
18-09-apr	4:05:08	592	3.0	1.5	-1.5	32	16.72
18-09-apr	5:05:08	592	1.3	-0.4	-1.7	32	16.70
18-09-apr	6:05:08	592	2.0	0.2	-1.8	32	16.71
18-09-apr	7:05:08	593	4.8	3.6	-1.2	33	16.71
18-09-apr	8:05:08	594	7.0	6.8	-0.3	33	16.71
18-09-apr	9:05:08	594	8.9	9.6	0.7	34	16.71
18-09-apr	10:05:08	594	10.8	12.1	1.4	34	16.71
18-09-apr	11:05:08	594	12.2	13.6	1.4	34	16.70
18-09-apr	12:05:08	594	14.0	15.3	1.3	35	16.70
18-09-apr	13:05:08	593	15.4	16.8	1.4	35	16.70
18-09-apr	14:05:08	593	16.3	17.9	1.6	35	16.71
18-09-apr	15:05:08	593	17.0	18.8	1.8	35	16.71
18-09-apr	16:05:08	593	17.0	18.7	1.7	35	16.70
18-09-apr	17:05:08	593	16.5	17.7	1.2	35	16.72
18-09-apr	18:05:08	593	14.0	14.3	0.3	35	16.71
18-09-apr	19:05:08	594	11.3	10.4	-0.9	34	16.71
18-09-apr	20:05:08	594	7.9	7.2	-0.9	34	16.71
18-09-apr	21:05:08	594	4.6	3.8	-0.7	34	16.70
	22:05:08	595	2.7	1.6	-1.1	33	16.70
18-09-apr 18-09-apr	23:05:08	595	1.2	0.0	-1.1	33	16.71
18-10-apr	0:05:08	595	1.2	-0.6	-1.8	33	16.71
18-10-apr		595	0.3			33	
	1:05:08			-1.4	-1.7	33	16.71
18-10-apr	2:05:08	594	-0.5	-2.1	-1.6		16.71
18-10-apr	3:05:08	594	-0.8	-2.5	-1.7	33 33	16.71
18-10-apr	4:05:08	594 504	-0.8	-2.7	-1.9		16.71
18-10-apr	5:05:08	594	-0.9	-2.7	-1.8	33	16.71
18-10-apr	6:05:08	594	0.2	Page 1	-2.1	33	16.71

18-10-apr	7:05:08	595	4.8	2.7	-2.1	34	16.71
18-10-apr	8:05:08	595	10.8	9.3	-1.5	35	16.72
18-10-apr	9:05:08	595	14.0	14.3	0.3	36	16.71
18-10-apr	10:05:08	595	15.3	16.5	1.2	36	16.71

	BGI PQ200 Air Sar	nplir	ng Syster	n Downloaded	2018 16 apr 14:	10:35
Job D	Details:		Job Cod	e:		
	Job Name: 18Apr16B.JOB		Site Nam			
	Version: 5.62		Station Cod			
	Serial No: 963		Operator			
	Pump Time: 6093:46				+++++++++++++++++++++++++++++++++++++++	+++++
	Flags:		User		1111111111111111	11111
TA CLASSES	Max Min Avg Units	Timor	Information:	۷.	Mass Concenti	ration Data:
3P	595 591 593 mmHg		illiorillation.		Filter ID:	34
ΓA			Date	Time	Final Wt:	
			dd-mmm	hh:mm:ss		mg
Q	16.7 Lpm	٠			Initial Wt:	mg
			18-14-apr	0:00:08	Delta Wt:	0.000 mg
QCV	0.51 %	Stop:	18-15-apr	0:00:05	Total Vol:	24.04 m^3
	overheat 3.4 °C					
	occured 14-apr 14:31:57	ET:	23:59		Mass Conc:	0 µg/m3
	Notes 1:					
	Notes 2:					
	Temps, 'C					— ТА
20	76,56, 6					TF
				Λ.		
15			,mv	My whomen	<u>.</u>	
10			a www		F	
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	0 5	1	0 Elapsed Time, Hrs	15	20	25
			Enapoda Timo, Tiro			
_	Overheat, TF- TA, 'C					
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-2	Myman				V	
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	0 5	10	Elapsed Time, Hrs	15	20	25
15	SP, cmH20					
12	U					
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3	0					
	0					
	0 5		10 Elapsed Time, Hrs	15	20	25

18-14-apr	0:05:08	594	-0.3	-1.8	-1.5	28	16.71
18-14-apr	1:05:08	594	-0.2	-2.1	-1.9	28	16.71
18-14-apr	2:05:08	594	-1.5	-3.3	-1.9	28	16.71
18-14-apr	3:05:08	594	-1.4	-3.6	-2.2	28	16.71
18-14-apr	4:05:08	594	-2.3	-4.1	-1.7	28	16.71
18-14-apr	5:05:08	594	-3.1	-4.7	-1.7	28	16.71
18-14-apr	6:05:08	594	-2.2	-3.8	-1.6	28	16.71
18-14-apr	7:05:08	594	2.0	8.0	-1.3	29	16.71
18-14-apr	8:05:08	595	4.7	4.4	-0.2	30	16.70
18-14-apr	9:05:08	595	6.9	7.6	0.7	31	16.71
18-14-apr	10:05:08	595	9.1	10.3	1.2	32	16.71
18-14-apr	11:05:08	595	11.4	12.7	1.3	32	16.71
18-14-apr	12:05:08	594	13.2	14.6	1.4	33	16.71
18-14-apr	13:05:08	593	14.3	16.0	1.7	33	16.71
18-14-apr	14:05:08	593	15.3	17.3	2.0	33	16.71
18-14-apr	15:05:08	592	15.0	16.9	1.9	33	16.71
18-14-apr	16:05:08	592	15.3	17.3	2.0	33	16.71
18-14-apr	17:05:08	592	14.5	16.1	1.5	33	16.70
18-14-apr	18:05:08	592	13.0	13.8	8.0	33	16.71
18-14-apr	19:05:08	592	9.6	9.0	-0.6	32	16.71
18-14-apr	20:05:08	592	6.8	6.1	-0.6	32	16.70
18-14-apr	21:05:08	593	2.7	2.3	-0.4	31	16.70
18-14-apr	22:05:08	593	2.2	0.8	-1.4	31	16.71
18-14-apr	23:05:08	592	0.8	-0.4	-1.2	30	16.70

BGI PQ200 Air Sampling System Downloaded 2018 23 apr 09:55:29								
Job De	Job Name: 18A Version:	5.62 963		Job Cod Site Nam Station Cod Operator User User	e: 963B e: rs: KN 1: <del>        </del>	<u></u>	<del>                                      </del>	
	Max Min Av 592 581 9.4 -3.7	vg Units 586 mmHg 2.1 °C 16.7 Lpm 0.51 % 2.8 °C 9:01	Start:	Date dd-mmm 18-20-apr 18-21-apr	Time hh:mm:ss 0:00:08 0:00:05	Mass Concenter Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol:  Mass Conc:	mg mg mg 0.000 mg 24.04 m^3	
	otes 2:						ТА	
15	Temps, 'C						— TA	
10				À	michini	· in		
5			شمرن	W W	/	M	~^~	
0	m		كنعمد					
-5 -10								
-10	0	5	. 1	0 Elapsed Time, Hrs	15	20	25	
5 4 3 2 1 0 -1 -2 -3 -4 -5			10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	15	20	25	
150 120 90 60 30	SP, cmH20	5		10 Elapsed Time, Hrs	15	20	25	

18-20-apr	0:05:08	584	-2.6	-4.0	-1.4	29	16.72
18-20-apr	1:05:08	584	-3.1	-4.5	-1.3	29	16.70
18-20-apr	2:05:08	584	-3.4	-4.7	-1.3	29	16.71
18-20-apr	3:05:08	584	-1.8	-3.1	-1.3	30	16.70
18-20-apr	4:05:08	584	-1.1	-1.7	-0.6	30	16.71
18-20-apr	5:05:08	584	-1.1	-1.5	-0.5	31	16.71
18-20-apr	6:05:08	584	-1.0	-1.4	-0.3	31	16.71
18-20-apr	7:05:08	584	-0.8	-0.9	-0.1	31	16.71
18-20-apr	8:05:08	584	0.1	0.3	0.2	31	16.71
18-20-apr	9:05:08	585	3.0	3.5	0.5	32	16.70
18-20-apr	10:05:08	585	4.1	5.3	1.1	32	16.71
18-20-apr	11:05:08	586	3.4	3.8	0.4	32	16.71
18-20-apr	12:05:08	587	6.2	6.7	0.5	32	16.70
18-20-apr	13:05:08	588	2.8	3.7	0.9	32	16.70
18-20-apr	14:05:08	588	6.6	6.7	0.2	33	16.71
18-20-apr	15:05:08	589	7.4	8.2	8.0	33	16.71
18-20-apr	16:05:08	589	8.8	10.1	1.3	33	16.72
18-20-apr	17:05:08	590	8.1	9.5	1.4	33	16.71
18-20-apr	18:05:08	590	6.7	7.3	0.6	33	16.71
18-20-apr	19:05:08	590	4.5	3.8	-0.7	32	16.72
18-20-apr	20:05:08	590	2.0	1.3	-0.7	32	16.71
18-20-apr	21:05:08	591	-0.4	-1.0	-0.6	32	16.71
18-20-apr	22:05:08	591	0.8	-1.2	-2.0	32	16.70
18-20-apr	23:05:08	591	1.1	-0.7	-1.9	31	16.71

BGI PQ200 Air Sar	nplir	ng System	Downloaded	2018 27 apr 09	:06:14
Job Details:		Job Code:			
Job Name: 18Apr27B.JOB		Site Name:			
Version: 5.62		Station Code:			
Serial No: 963		Operators:			
Pump Time: 6141:44		User1:	+++++++++++++++++++++++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++	<del>                                     </del>
Flags:		User2:		_	
Max Min Avg Units		Information:		Mass Concent	ration Data:
BP <u>593 589 591</u> mmHg				Filter ID:	5
TA 24.8 3.4 14.3 °C		Date	Time	Final Wt:	mg
Q   16.7 Lpm		dd-mmm	hh:mm:ss	Initial Wt:	mg
		18-26-apr	0:00:08	Delta Wt:	0.000 mg
QCV 0.54 %	Stop:	18-27-apr	0:00:05	Total Vol:	24.038 m^3
Max overheat 3.3 °C					
occured 26-apr 13:45:36	ET:	23:59		Mass Conc:	0 µg/m3
Notes 1:					
Notes 2:					
12					
		Mymin	nunn.		*
		mm	400	i i	
<u></u>	,,,			M	
				7	
<i></i>					
					•••
151					
(0)					
7					
Overheat, TF-				-	

10.00	05.00 500	0.5	4.0	1.0		
18-26-apr 0:	05:08 592	6.5	4.9	-1.6	22	16.71
18-26-apr 1:	05:08 591	5.2	3.9	-1.3	22	16.71
18-26-apr 2:	05:08 591	4.1	2.7	-1.4	22	16.70
18-26-apr 3:	05:08 591	5.2	3.0	-2.2	22	16.71
18-26-apr 4:	05:08 591	5.1	3.2	-1.9	22	16.71
	05:08 591	5.5	3.5	-2.0	22	16.70
18-26-apr 6:	05:08 592	9.7	7.0	-2.8	23	16.71
18-26-apr 7:	05:08 592	13.9	12.9	-1.1	24	16.71
18-26-apr 8:	05:08 592	17.0	16.9	0.0	25	16.71
	05:08 592	18.8	19.9	1.1	26	16.71
18-26-apr 10:	05:08 592	20.2	21.8	1.6	26	16.71
18-26-apr 11:	05:08 592	21.4	22.9	1.5	27	16.71
18-26-apr 12:	05:08 592	22.4	23.9	1.6	27	16.71
18-26-apr 13:	05:08 591	22.5	24.7	2.2	27	16.70
18-26-apr 14:	05:08 591	22.9	25.1	2.2	27	16.72
18-26-apr 15:	05:08 591	22.6	24.4	1.8	27	16.70
18-26-apr 16:	05:08 590	22.2	23.6	1.4	27	16.71
18-26-apr 17:	05:08 590	21.3	21.9	0.6	27	16.71
18-26-apr 18:	05:08 590	19.7	20.6	0.9	26	16.70
18-26-apr 19:	05:08 590	16.3	16.0	-0.3	26	16.71
18-26-apr 20:	05:08 591	13.8	12.5	-1.3	25	16.72
18-26-apr 21:	05:08 591	10.6	9.8	-0.8	25	16.71
18-26-apr 22:	05:08 591	7.9	7.0	-0.8	24	16.71
18-26-apr 23:	05:08 591	6.9	5.5	-1.3	24	16.71

BGI PQ200 Air San	nplir	ng System	Downloaded :	2018 04 may 13:01	:09
Job Details: Job Name: 18May04B.JOB Version: 5.62 Serial No: 963 Pump Time: 6165:43 Flags: Max Min Avg Units	Timer	Job Code: Site Name: Station Code: Operators: User1: User2: Information:	+++++++++++++++++++++++++++++++++++++++	Mass Concentrati	************************
BP 589 583 586 mmHg TA 3.5 -0.4 1.3 °C Q 16.7 Lpm  QCV 0.49 %		Date dd-mmm 18-02-may 18-03-may	Time hh:mm:ss 0:00:08 0:00:04		11 mg mg 0.000 mg 1.041 m^3
Max overheat 2.3 °C occured 03-may 15:29:57  Notes 1: Notes 2:	ET:	23:59		Mass Conc:	0 µg/m3
Temps, 'C  4 3 2 1 0 -1 -2 0 5  Overheat, TF- TA, 'C 4 3 2 1 0 -1 -2 -3 -4 -5 0 5	100	Elapsed Time, Hrs	15	20	25 TA
SP, cmH20  120  90  60  30  0  5  5  5  6  5  6  5  6  6  7  7  8  8  8  8  8  8  8  8  8  8  8		10 Elapsed Time, Hrs	15	20	25

18-02-may	0:05:08	585	0.4	-0.4	-0.8	25	16.70
18-02-may	1:05:08	585	1.0	-0.1	-1.0	26	16.71
18-02-may	2:05:08	585	0.9	-0.1	-1.0	26	16.71
18-02-may	3:05:08	585	0.3	-0.5	-0.8	26	16.71
18-02-may	4:05:08	585	-0.2	-1.0	-0.8	26	16.73
18-02-may	5:05:08	585	-0.1	-0.9	-0.8	26	16.71
18-02-may	6:05:08	585	0.2	-0.3	-0.5	26	16.71
18-02-may	7:05:08	585	0.6	0.1	-0.5	26	16.71
18-02-may	8:05:08	585	1.6	1.0	-0.6	26	16.71
18-02-may	9:05:08	586	2.6	2.2	-0.3	27	16.71
18-02-may	10:05:08	586	2.5	2.9	0.4	27	16.72
18-02-may	11:05:08	586	2.7	3.4	8.0	27	16.72
18-02-may	12:05:08	586	1.3	1.7	0.5	27	16.71
18-02-may	13:05:08	586	0.7	0.9	0.1	27	16.69
18-02-may	14:05:08	586	1.7	2.0	0.3	27	16.71
18-02-may	15:05:08	586	2.8	2.5	-0.3	27	16.72
18-02-may	16:05:08	586	2.9	2.4	-0.5	27	16.71
18-02-may	17:05:08	587	1.1	8.0	-0.3	27	16.71
18-02-may	18:05:08	587	0.8	0.3	-0.5	27	16.71
18-02-may	19:05:08	588	1.4	0.7	-0.7	27	16.71
18-02-may	20:05:08	588	1.5	0.9	-0.6	28	16.72
18-02-may	21:05:08	588	1.6	0.9	-0.7	28	16.69
18-02-may	22:05:08	589	1.7	1.0	-0.7	28	16.72
18-02-may	23:05:08	589	1.3	0.7	-0.6	28	16.70

Е	<b>3GI PQ200</b>	Air San	nplir	ng Syste	m Downloaded	2018 09 may 09	9:40:26
Job Det	Job Name: 18M	5.62 963		Job Coo Site Nam Station Coo Operato Use	ne: de:	+++++++++++++	+++++
вр Г	Flags:	vg Units 592 mmHg	Timer	Use Information:	r2:	Mass Concent Filter ID:	ration Data:
TA _	28.4 4.7	17.5 °C 16.7 Lpm	Start:	Date dd-mmm 18-08-may	Time hh:mm:ss 0:00:08	Final Wt: Initial Wt: Delta Wt:	mg mg 0.000 mg
QCV Max ove		0.51 % 2.9 °C		18-09-may	0:00:05	Total Vol:	24.039 m^3
No	otes 1: otes 2:	53.40	<u> </u>	23.39		WIGSS COILC.	— та
30	Temps, 'C			······································	minimize.		TF
20			حتممي			Experience	
15	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Jan				تكننهم	مُزِي.
5 0 0		5	1		15	20	25
5	Overheat, TF- TA, 'C			Elapsed Time, Hr	s		
4 3 2 1			.~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Mymm	\M\I	
-1 -2 -3 -4	JMV/J		,,,,,,			1 W	~
-5 0	5	;	10	Elapsed Time, Hrs	15	20	25
150	SP, cmH20			- 3			
90							
0	0	5		10 Elapsed Time, Hrs	15	20	25
				Elapseu Time, mrs			

0:05:08	593	8.3	5.9	-2.4	26	16.71
1:05:08	593	8.3	6.2	-2.1	26	16.70
2:05:08	593	6.7	5.1	-1.6	26	16.71
3:05:08	593	6.7	4.6	-2.1	26	16.72
4:05:08	593	6.8	4.6	-2.1	26	16.71
5:05:08	593	8.4	4.8	-3.6	26	16.71
6:05:08	593	12.6	10.4	-2.2	27	16.71
7:05:08	593	17.7	15.7	-2.0	29	16.71
8:05:08	594	21.9	21.1	-0.8	30	16.70
9:05:08	594	23.9	24.2	0.3	31	16.72
10:05:08	594	24.7	25.9	1.2	32	16.70
11:05:08	593	25.2	26.9	1.6	32	16.71
12:05:08	593	26.4	27.6	1.2	32	16.70
13:05:08	593	26.8	28.2	1.4	33	16.70
14:05:08	592	27.1	28.5	1.4	33	16.71
15:05:08	592	27.3	28.6	1.4	33	16.71
16:05:08	592	26.7	28.0	1.3	33	16.72
17:05:08	592	25.7	26.8	1.1	33	16.71
18:05:08	592	22.9	23.3	0.4	32	16.71
19:05:08	592	17.9	18.3	0.5	32	16.71
20:05:08	592	14.0	13.8	-0.2	31	16.71
21:05:08	592	12.4	11.3	-1.1	31	16.71
22:05:08	592	11.2	9.8	-1.4	30	16.71
23:05:08	592	9.7	8.5	-1.3	30	16.70
	1:05:08 2:05:08 3:05:08 4:05:08 5:05:08 6:05:08 7:05:08 8:05:08 9:05:08 10:05:08 12:05:08 13:05:08 14:05:08 15:05:08 16:05:08 17:05:08 18:05:08 19:05:08 20:05:08 21:05:08 22:05:08	1:05:08       593         2:05:08       593         3:05:08       593         4:05:08       593         5:05:08       593         6:05:08       593         7:05:08       593         8:05:08       594         9:05:08       594         10:05:08       594         11:05:08       593         12:05:08       593         13:05:08       593         14:05:08       593         15:05:08       592         15:05:08       592         17:05:08       592         18:05:08       592         19:05:08       592         20:05:08       592         21:05:08       592         22:05:08       592          21:05:08       592	1:05:08       593       8.3         2:05:08       593       6.7         3:05:08       593       6.8         4:05:08       593       8.4         6:05:08       593       12.6         7:05:08       593       17.7         8:05:08       594       21.9         9:05:08       594       23.9         10:05:08       594       24.7         11:05:08       593       25.2         12:05:08       593       26.4         13:05:08       593       26.8         14:05:08       593       26.8         14:05:08       592       27.1         15:05:08       592       27.3         16:05:08       592       26.7         17:05:08       592       25.7         18:05:08       592       25.7         18:05:08       592       17.9         20:05:08       592       14.0         21:05:08       592       12.4         22:05:08       592       11.2	1:05:08       593       8.3       6.2         2:05:08       593       6.7       5.1         3:05:08       593       6.7       4.6         4:05:08       593       6.8       4.6         5:05:08       593       8.4       4.8         6:05:08       593       12.6       10.4         7:05:08       593       17.7       15.7         8:05:08       594       21.9       21.1         9:05:08       594       23.9       24.2         10:05:08       594       23.9       24.2         10:05:08       594       24.7       25.9         11:05:08       593       25.2       26.9         12:05:08       593       26.4       27.6         13:05:08       593       26.8       28.2         14:05:08       593       26.8       28.2         14:05:08       592       27.1       28.5         15:05:08       592       27.3       28.6         16:05:08       592       25.7       26.8         18:05:08       592       25.7       26.8         18:05:08       592       17.9       18.3	1:05:08       593       8.3       6.2       -2.1         2:05:08       593       6.7       5.1       -1.6         3:05:08       593       6.7       4.6       -2.1         4:05:08       593       6.8       4.6       -2.1         5:05:08       593       8.4       4.8       -3.6         6:05:08       593       12.6       10.4       -2.2         7:05:08       593       17.7       15.7       -2.0         8:05:08       594       21.9       21.1       -0.8         9:05:08       594       23.9       24.2       0.3         10:05:08       594       24.7       25.9       1.2         11:05:08       593       25.2       26.9       1.6         12:05:08       593       26.4       27.6       1.2         13:05:08       593       26.8       28.2       1.4         14:05:08       593       26.8       28.2       1.4         15:05:08       592       27.1       28.5       1.4         16:05:08       592       27.3       28.6       1.4         16:05:08       592       25.7       26.8       1.1 <td>1:05:08       593       8.3       6.2       -2.1       26         2:05:08       593       6.7       5.1       -1.6       26         3:05:08       593       6.7       4.6       -2.1       26         4:05:08       593       6.8       4.6       -2.1       26         5:05:08       593       8.4       4.8       -3.6       26         6:05:08       593       12.6       10.4       -2.2       27         7:05:08       593       17.7       15.7       -2.0       29         8:05:08       594       21.9       21.1       -0.8       30         9:05:08       594       23.9       24.2       0.3       31         10:05:08       594       24.7       25.9       1.2       32         11:05:08       593       25.2       26.9       1.6       32         12:05:08       593       26.4       27.6       1.2       32         13:05:08       593       26.8       28.2       1.4       33         14:05:08       592       27.1       28.5       1.4       33         15:05:08       592       27.3       28.6       &lt;</td>	1:05:08       593       8.3       6.2       -2.1       26         2:05:08       593       6.7       5.1       -1.6       26         3:05:08       593       6.7       4.6       -2.1       26         4:05:08       593       6.8       4.6       -2.1       26         5:05:08       593       8.4       4.8       -3.6       26         6:05:08       593       12.6       10.4       -2.2       27         7:05:08       593       17.7       15.7       -2.0       29         8:05:08       594       21.9       21.1       -0.8       30         9:05:08       594       23.9       24.2       0.3       31         10:05:08       594       24.7       25.9       1.2       32         11:05:08       593       25.2       26.9       1.6       32         12:05:08       593       26.4       27.6       1.2       32         13:05:08       593       26.8       28.2       1.4       33         14:05:08       592       27.1       28.5       1.4       33         15:05:08       592       27.3       28.6       <

BGI PQ200 Air Sampling System Downloaded 2018 15 may 10:56:25										
Job Details: Job Name: 18May15B.JOB Version: 5.62 Serial No: 963 Pump Time: 6213:41 Flags:	7	Job Code: Site Name: Station Code: Operators: User1: User2:	+++++++++++++++++++++++++++++++++++++++		H+++++					
Max Min Avg Units BP 590 586 588 mmHg TA 19.7 1.5 11 °C C 16.7 Lpm  QCV 0.52 %  Max overheat 2.8 °C occured 14-may 13:33:11  Notes 1:	Start:	Date dd-mmm 18-14-may 18-15-may	Time hh:mm:ss 0:00:08 0:00:05	Mass Concent Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol:  Mass Conc:	mg mg mg mg mg 24.04 m^3					
Notes 2:										
Overheat, TF-										

18-14-may	0:05:08	588	4.8	3.2	-1.7	25	16.71
18-14-may	1:05:08	588	4.3	2.9	-1.4	25	16.71
18-14-may	2:05:08	588	3.8	2.4	-1.4	25	16.71
18-14-may	3:05:08	588	3.2	2.0	-1.2	25	16.71
18-14-may	4:05:08	588	3.0	1.7	-1.4	25	16.71
18-14-may	5:05:08	589	2.8	1.5	-1.3	25	16.72
18-14-may	6:05:08	589	6.8	4.5	-2.4	26	16.70
18-14-may	7:05:08	589	10.6	10.2	-0.4	27	16.71
18-14-may	8:05:08	589	12.1	12.7	0.6	27	16.69
18-14-may	9:05:08	589	13.5	14.6	1.1	28	16.71
18-14-may	10:05:08	590	13.5	14.3	8.0	28	16.71
18-14-may	11:05:08	590	14.8	15.0	0.3	28	16.71
18-14-may	12:05:08	590	15.8	16.6	8.0	28	16.71
18-14-may	13:05:08	589	17.5	18.6	1.1	29	16.71
18-14-may	14:05:08	589	18.1	19.7	1.6	29	16.71
18-14-may	15:05:08	589	17.4	18.6	1.3	29	16.71
18-14-may	16:05:08	589	17.3	18.3	1.0	29	16.70
18-14-may	17:05:08	588	17.1	18.4	1.3	29	16.71
18-14-may	18:05:08	588	16.3	16.9	0.5	29	16.72
18-14-may	19:05:08	589	12.1	12.7	0.6	28	16.71
18-14-may	20:05:08	589	7.9	7.9	0.0	28	16.71
18-14-may	21:05:08	589	11.0	8.3	-2.7	27	16.71
18-14-may	22:05:08	589	10.3	8.6	-1.7	28	16.71
18-14-may	23:05:08	589	9.2	7.7	-1.5	28	16.70

BGI PQ200 Air Sar	nplir	ng Syster	n Downloaded	2018 22 may 12:17:29	
Job Details: Job Name: 18May22B.JOB		Job Cod Site Nam			
Version: 5.62		Station Cod			
Serial No: 963		Operator	s:		
Pump Time: 6237:40		User	1: ++++++++		
Flags:	- 11 C 4 S 11 S 11 S 11 S 11 S 11 S 11 S	User	2:		
Max Min Avg Units		Information:		Mass Concentration	
BP 590 586 588 mmHg					18
TA 23.1 3.8 13.3 °C		Date	Time	Final Wt:	mg
Q 16.7 Lpm	a	dd-mmm	hh:mm:ss	Initial Wt:	mg
2.55.0/		18-20-may	0:00:08		00 mg
QCV 0.55 %	Stop:	18-21-may	0:00:05	Total Vol: 24.04	11 m^3
Max overheat 3.1 °C		00.50		Mana Canari	0/
occured 20-may 16:02:24	ET:	23:59		Mass Conc:	0 µg/m3
Notes 1:					
Notes 2:					— ТА
Temps, 'C	-				TF
	-	4-	Λ		:
20		W.M.M.	way alma	Ť.	
15	~~~~~~			· Le	
13					
10				No.	_
Juneary J				min	
5					-
0					
0 5	1	0 Florand Time Har	15	20	25
		Elapsed Time, Hrs			
Overheat, TF- TA, 'C					
4					
3			Λ		
1	ww	W M. MY	my my	٨	
0 100 00	/N W	. 20 M	1000	mon	
-1 The same of the				WY 44	
-3					
-5					
0 5	10	Elapsed Time, Hrs	15	20	25
SP, cmH20					
150 SP, CMH20					$\neg$
120		30			
90					
60					
30					
0		40	45	20	25
0 5		10 Elapsed Time, Hrs	15	20	25

18-20-may	0:05:08	589	9.0	7.8	-1.2	31	16.72
18-20-may	1:05:08	589	7.3	6.1	-1.2	32	16.70
18-20-may	2:05:08	589	6.5	4.9	-1.6	32	16.72
18-20-may	3:05:08	589	6.2	4.4	-1.8	32	16.70
18-20-may	4:05:08	589	5.6	3.9	-1.7	32	16.71
18-20-may	5:05:08	589	4.7	3.4	-1.3	32	16.71
18-20-may	6:05:08	589	8.9	6.8	-2.1	32	16.71
18-20-may	7:05:08	589	13.2	11.4	-1.8	33	16.70
18-20-may	8:05:08	589	16.7	16.4	-0.3	34	16.70
18-20-may	9:05:08	590	17.2	17.8	0.6	34	16.71
18-20-may	10:05:08	589	18.1	19.0	0.9	35	16.71
18-20-may	11:05:08	589	19.5	20.1	0.6	35	16.70
18-20-may	12:05:08	588	20.1	21.1	0.9	36	16.71
18-20-may	13:05:08	588	20.2	21.1	0.9	36	16.70
18-20-may	14:05:08	588	21.0	22.1	1.2	36	16.71
18-20-may	15:05:08	588	21.0	22.0	1.0	36	16.71
18-20-may	16:05:08	588	19.3	21.0	1.6	36	16.71
18-20-may	17:05:08	587	18.6	19.3	8.0	36	16.70
18-20-may	18:05:08	587	18.5	19.0	0.5	36	16.70
18-20-may	19:05:08	587	14.2	14.5	0.2	36	16.72
18-20-may	20:05:08	588	10.3	10.1	-0.2	36	16.70
18-20-may	21:05:08	588	7.9	7.2	-0.6	35	16.71
18-20-may	22:05:08	588	7.6	6.3	-1.3	35	16.71
18-20-may	23:05:08	588	6.3	5.3	-1.0	35	16.71

Job Name: 18May29B.JOB   Version: 5.62   Site Name: Station Code: Site Name: Station Code: Site Name: Station Code: Site Name: Station Code:
Max   Min   Avg   Units   589   585   587   mmHg   22.2   5   13.8   °C   Q       16.7   Lpm   Date   dd-mmm   hh:mm:ss   Start:   18-26-may   0:00:08   Stop:   18-27-may   0:00:05   Mass Concentration Data:   Filter ID:   34   Final Wt:   mg   mg   Delta Wt:   0.000   mg   Total Vol:   24.039   m^3   Mass Concentration Data:   Filter ID:   34   Final Wt:   mg   mg   Delta Wt:   0.000   mg   Total Vol:   24.039   m^3   Mass Concentration Data:   Filter ID:   34   Final Wt:   mg   Delta Wt:   0.000   mg   Total Vol:   24.039   m^3   Mass Concentration Data:   Filter ID:   34   Final Wt:   mg   Delta Wt:   0.000   mg   Total Vol:   24.039   m^3   Mass Concentration Data:   Filter ID:   34   Final Wt:   mg   Delta Wt:   0.000   mg   Total Vol:   24.039   m^3   Mass Concentration Data:   Filter ID:   34   Final Wt:   mg   Delta Wt:   0.000   mg   Total Vol:   24.039   m^3   Mass Concentration Data:   Filter ID:   34   Final Wt:   mg   Delta Wt:   0.000   mg   Total Vol:   24.039   m^3   Mass Concentration Data:   Filter ID:   34   Final Wt:   mg   Delta Wt:   0.000   mg   Total Vol:   24.039   m^3   Mass Concentration Data:   Filter ID:   34   Final Wt:   mg   Delta Wt:   0.000   mg   Total Vol:   24.039   m^3   Mass Concentration Data:   Filter ID:   34   Final Wt:   mg   Mass Concentration Data:   Filter ID:   34   Final Wt:   mg   Mass Concentration Data:   Filter ID:   34   Final Wt:   mg   Mass Concentration Data:   Filter ID:   34   Final Wt:   mg   Mass Concentration Data:   Final Wt:   Mass Concentration Data:   Final Wt:   Mass Concentration Data:   Final Wt:   Mas
Notes 2:  Temps, 'C  15  10  0  5  10  15  20  25  20  25  20  25
0 5 10 15 20 25

18-26-may	0:05:08	589	8.7	6.6	-2.1	29	16.71
18-26-may	1:05:08	589	8.2	5.5	-2.7	29	16.70
18-26-may	2:05:08	588	7.3	5.4	-1.9	29	16.71
18-26-may	3:05:08	588	10.6	7.7	-2.9	30	16.71
18-26-may	4:05:08	588	9.4	7.5	-1.9	30	16.71
18-26-may	5:05:08	588	9.4	7.6	-1.8	30	16.71
18-26-may	6:05:08	588	12.2	10.6	-1.5	30	16.71
18-26-may	7:05:08	588	13.9	13.7	-0.2	31	16.71
18-26-may	8:05:08	588	15.0	15.2	0.2	32	16.70
18-26-may	9:05:08	588	15.9	16.4	0.4	32	16.71
18-26-may	10:05:08	588	17.1	17.4	0.3	32	16.70
18-26-may	11:05:08	588	18.0	18.4	0.4	32	16.70
18-26-may	12:05:08	587	18.7	19.0	0.3	33	16.70
18-26-may	13:05:08	587	19.9	20.2	0.3	33	16.71
18-26-may	14:05:08	586	20.6	21.3	0.6	33	16.71
18-26-may	15:05:08	586	20.9	22.0	1.1	34	16.70
18-26-may	16:05:08	585	19.5	20.8	1.2	33	16.71
18-26-may	17:05:08	586	17.3	17.5	0.3	33	16.71
18-26-may	18:05:08	586	16.5	17.0	0.5	33	16.71
18-26-may	19:05:08	586	13.8	13.9	0.1	32	16.71
18-26-may	20:05:08	586	11.8	11.0	-0.8	32	16.71
18-26-may	21:05:08	587	10.3	9.5	-0.8	32	16.70
18-26-may	22:05:08	587	8.9	8.3	-0.6	32	16.71
18-26-may	23:05:08	587	6.4	6.1	-0.3	32	16.71

BGI PQ200 Air Sampling System Downloaded 2018 04 jun 15:18:15										
Job Details:  Job Name: 18Jun04B.JOB  Version: 5.62  Serial No: 963  Pump Time: 6285:38			e: e: s: 1: <del>       </del>	+++++++++++++++++++++++++++++++++++++++	H++++					
Flags:    Max   Min   Avg   Units	Start:	Date dd-mmm 18-01-jun 18-02-jun 23:59	Time hh:mm:ss 0:00:08 0:00:05	Mass Concentr Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol:  Mass Conc:	ation Data:  39  mg  mg  0.000 mg  24.04 m^3					
	شنتنت سام	To The second second								
Overheat, TF-										

18-01-jun	0:05:08	588	8.8	8.6	-0.2	26	16.71
18-01-jun	1:05:08	588	6.8	6.1	-0.7	26	16.71
18-01-jun	2:05:08	588	6.5	5.0	-1.5	26	16.71
18-01-jun	3:05:08	588	5.7	4.5	-1.2	26	16.71
18-01-jun	4:05:08	589	5.2	3.8	-1.3	26	16.72
18-01-jun	5:05:08	589	4.9	3.4	-1.5	26	16.69
18-01-jun	6:05:08	590	10.4	7.8	-2.6	26	16.71
18-01-jun	7:05:08	591	14.5	13.8	-0.8	27	16.71
18-01-jun	8:05:08	591	15.9	16.5	0.6	28	16.71
18-01-jun	9:05:08	591	17.2	18.4	1.2	29	16.71
18-01-jun	10:05:08	591	19.2	20.2	1.1	29	16.69
18-01-jun	11:05:08	591	20.8	21.5	0.7	30	16.71
18-01-jun	12:05:08	591	21.8	22.6	0.8	30	16.71
18-01-jun	13:05:08	591	22.9	23.8	0.9	30	16.71
18-01-jun	14:05:08	591	23.6	24.9	1.3	31	16.70
18-01-jun	15:05:08	591	23.8	25.4	1.6	31	16.71
18-01-jun	16:05:08	591	24.2	25.7	1.5	31	16.71
18-01-jun	17:05:08	591	23.7	25.2	1.5	31	16.71
18-01-jun	18:05:08	592	22.9	23.9	1.0	31	16.70
18-01-jun	19:05:08	592	19.8	19.9	0.1	30	16.71
18-01-jun	20:05:08	592	17.8	16.6	-1.2	30	16.71
18-01-jun	21:05:08	593	15.6	14.5	-1.1	29	16.70
18-01-jun	22:05:08	593	13.2	11.9	-1.3	29	16.72
18-01-jun	23:05:08	593	12.9	10.9	-2.0	29	16.71

	Republished Allen Contact and the Contact Street	
BGI PQ200 Air Sar	npling System Downloaded	2018 08 jun 12:09:32
Job Details:	Job Code:	
	Site Name:	
Job Name: 18Jun08B.JOB	The state of the s	
Version: 5.62	Station Code:	
Serial No: 963	Operators:	
Pump Time: 6309:37	User1: +++++++++	++++++
Flags:	User2:	
Max Min Avg Units	Timer Information:	Mass Concentration Data:
3P 592 587 590 mmHg	Timer imormation.	Filter ID: 12
	Date Time	
ΓA <u>27.8</u> 7.3 17.5 °C		Final Wt:mg
Q <u></u> 16.7 Lpm	dd-mmm hh:mm:ss	Initial Wt:mg
	Start: 18-07-jun 0:00:08	Delta Wt: 0.000 mg
QCV 0.51 %	Stop: 18-08-jun 0:00:04	Total Vol: 24.037 m^3
Max overheat 2.3 °C	v =	
occured 07-jun 15:07:57	ET: 23:59	Mass Conc: 0 µg/m3
Notes 1:	L1.  20.00	made conc. Oppg/illo
Notes 1: Notes 2:		AND THE RESIDENCE AND THE RESI
Temps, 'C		— TA
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•	Elapsed Time, Hrs	
Overheat, TF-		
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120		
90		
60		
30		
0 5	10 15	20 25
v 5	Elapsed Time, Hrs	20 25

18-07-jun	0:05:08	589	10.2	8.5	-1.7	23	16.70
18-07-jun	1:05:08	589	9.3	7.7	-1.5	23	16.71
18-07-jun	2:05:08	589	8.6	7.0	-1.6	23	16.72
18-07-jun	3:05:08	589	8.3	6.6	-1.7	23	16.71
18-07-jun	4:05:08	590	7.9	6.2	-1.8	23	16.71
18-07-jun	5:05:08	590	8.0	6.3	-1.7	23	16.71
18-07-jun	6:05:08	590	13.7	11.1	-2.6	24	16.71
18-07-jun	7:05:08	591	18.4	17.2	-1.2	25	16.71
18-07-jun	8:05:08	591	19.9	20.0	0.1	26	16.71
18-07-jun	9:05:08	591	20.9	21.6	0.7	26	16.71
18-07-jun	10:05:08	591	22.3	23.0	0.7	26	16.70
18-07-jun	11:05:08	591	23.5	23.9	0.4	27	16.71
18-07-jun	12:05:08	591	24.8	24.9	0.1	27	16.70
18-07-jun	13:05:08	591	25.8	26.2	0.4	27	16.71
18-07-jun	14:05:08	591	26.3	27.2	0.9	27	16.71
18-07-jun	15:05:08	590	26.4	27.6	1.2	27	16.71
18-07-jun	16:05:08	590	26.3	27.5	1.2	27	16.69
18-07-jun	17:05:08	590	25.5	26.6	1.2	27	16.70
18-07-jun	18:05:08	590	22.9	23.0	0.1	27	16.70
18-07-jun	19:05:08	590	20.3	19.8	-0.5	26	16.71
18-07-jun	20:05:08	591	15.0	15.4	0.4	26	16.71
18-07-jun	21:05:08	591	13.1	12.5	-0.6	26	16.71
18-07-jun	22:05:08	592	11.6	10.5	-1.1	26	16.71
18-07-jun	23:05:08	592	10.3	9.2	-1.1	26	16.71

BGI PQ200 Air Sampling System Downloaded 2018 14 jun 14:20:15									
Job Det	Job Name: 1 Version: Serial No: Pump Time: 6	5.62 963				ne: 963B de: rs: KN r1: <del>       </del>		+++++	
BP TA QCV Max ove	Flags:  Max Min  592 589  31.7 8   erheat  cured 13-jun 14  tes 1: tes 2:	20.7 16.7 0.47 2.8	Lpm % °C	Start:	Use Information:  Date dd-mmm 18-13-jun 18-14-jun	Time hh:mm:ss 0:00:08 0:00:04	Mass Concen Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol:  Mass Conc:	tration Data:  23  mg  mg  0.000 mg  24.036 m^3	
35 7	Temps, 'C			بتهة .	ecios No Man	io Mirinary	•	— TA	
25 — 20 — 15 — 10 — 10 — 10 — 10 — 10 — 10 — 1	Marine Marine		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				Fire with	٠٠٠٠	
5 0		5		1	0 Elapsed Time, Hr	15 s	20	25	
				,					

18-13-jun	0:05:08	591	12.5	10.9	-1.6	22	16.71
18-13-jun	1:05:08	591	11.8	10.1	-1.7	22	16.70
18-13-jun	2:05:08	591	10.4	9.0	-1.5	22	16.71
18-13-jun	3:05:08	591	9.4	7.9	-1.5	22	16.70
18-13-jun	4:05:08	591	8.9	7.3	-1.6	22	16.71
18-13-jun	5:05:08	591	9.4	7.4	-2.0	22	16.71
18-13-jun	6:05:08	592	16.0	12.7	-3.3	23	16.71
18-13-jun	7:05:08	592	21.6	19.7	-1.9	24	16.71
18-13-jun	8:05:08	592	25.2	25.1	-0.1	25	16.71
18-13-jun	9:05:08	592	27.1	27.9	0.8	26	16.71
18-13-jun	10:05:08	592	28.2	28.9	0.7	26	16.70
18-13-jun	11:05:08	592	28.9	29.4	0.4	26	16.70
18-13-jun	12:05:08	591	29.6	29.9	0.3	26	16.70
18-13-jun	13:05:08	591	30.1	30.7	0.7	27	16.70
18-13-jun	14:05:08	591	30.0	31.1	1.1	27	16.71
18-13-jun	15:05:08	590	29.7	31.0	1.3	27	16.69
18-13-jun	16:05:08	590	30.1	31.4	1.3	27	16.71
18-13-jun	17:05:08	590	28.7	29.9	1.2	27	16.71
18-13-jun	18:05:08	590	26.5	26.7	0.2	27	16.70
18-13-jun	19:05:08	590	23.5	23.7	0.3	26	16.70
18-13-jun	20:05:08	590	16.8	17.4	0.6	26	16.71
18-13-jun	21:05:08	590	14.6	13.9	-0.7	25	16.71
18-13-jun	22:05:08	590	13.5	12.2	-1.2	25	16.71
18-13-jun	23:05:08	590	12.6	11.2	-1.4	25	16.71

BGI PQ200 Air Sar	npliı	ng System	Downloaded	2018 22 jun 09	0:42:36	
Job Details: Job Name: 18Jun22B.JOB Version: 5.62 Serial No: 963 Pump Time: 6357:35 Flags:		Job Code: Site Name: Station Code: Operators: User1: User2:	963B KN +++++++++++++++++++++++++++++++++++	:- - ++++++++++++++++++++++++++++++++++	+++++	
Max         Min         Avg         Units           BP         593         588         591         mmHg           TA         27.5         2.5         17.3         °C         Lpm           QCV         0.52         %           Max overheat occured 19-jun 15:26:22         Notes 1:         2.9         °C	Start:	Date dd-mmm 18-19-jun 18-20-jun	Time hh:mm:ss 0:00:08 0:00:05	Mass Concen Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol:  Mass Conc:	tration Data: 5 mg mg 0.000 mg 24.039 m^3	
Notes 2:	a area area	••••				
	10					
Overheat, TF-						

18-19-jun     2:05:08     591     6.5     4.7     -1.8     32     16.70       18-19-jun     3:05:08     591     5.6     4.1     -1.5     32     16.71       18-19-jun     4:05:08     591     4.2     2.9     -1.3     32     16.71       18-19-jun     5:05:08     591     5.5     3.3     -2.2     32     16.70       18-19-jun     6:05:08     591     11.8     9.1     -2.7     33     16.71       18-19-jun     7:05:08     592     18.2     16.5     -1.7     34     16.71								
18-19-jun         2:05:08         591         6.5         4.7         -1.8         32         16.70           18-19-jun         3:05:08         591         5.6         4.1         -1.5         32         16.71           18-19-jun         4:05:08         591         4.2         2.9         -1.3         32         16.71           18-19-jun         5:05:08         591         5.5         3.3         -2.2         32         16.70           18-19-jun         6:05:08         591         11.8         9.1         -2.7         33         16.71           18-19-jun         7:05:08         592         18.2         16.5         -1.7         34         16.71           18-19-jun         8:05:08         592         20.3         20.6         0.4         36         16.70           18-19-jun         9:05:08         592         21.9         22.9         1.0         37         16.70           18-19-jun         10:05:08         592         23.2         24.4         1.2         37         16.71           18-19-jun         12:05:08         592         25.1         25.8         0.7         37         16.71           18-19-jun         <	18-19-jun	0:05:08	591	9.0	7.0	-2.1	32	16.71
18-19-jun         3:05:08         591         5.6         4.1         -1.5         32         16.71           18-19-jun         4:05:08         591         4.2         2.9         -1.3         32         16.71           18-19-jun         5:05:08         591         5.5         3.3         -2.2         32         16.70           18-19-jun         6:05:08         591         11.8         9.1         -2.7         33         16.71           18-19-jun         7:05:08         592         18.2         16.5         -1.7         34         16.71           18-19-jun         8:05:08         592         20.3         20.6         0.4         36         16.70           18-19-jun         9:05:08         592         21.9         22.9         1.0         37         16.70           18-19-jun         10:05:08         592         23.2         24.4         1.2         37         16.71           18-19-jun         11:05:08         592         24.0         25.2         1.2         37         16.71           18-19-jun         12:05:08         592         25.1         25.8         0.7         37         16.71           18-19-jun	18-19-jun	1:05:08	591	6.4	5.2	-1.3	32	16.70
18-19-jun         4:05:08         591         4.2         2.9         -1.3         32         16.71           18-19-jun         5:05:08         591         5.5         3.3         -2.2         32         16.70           18-19-jun         6:05:08         591         11.8         9.1         -2.7         33         16.71           18-19-jun         7:05:08         592         18.2         16.5         -1.7         34         16.71           18-19-jun         8:05:08         592         20.3         20.6         0.4         36         16.70           18-19-jun         9:05:08         592         21.9         22.9         1.0         37         16.70           18-19-jun         10:05:08         592         23.2         24.4         1.2         37         16.71           18-19-jun         11:05:08         592         24.0         25.2         1.2         37         16.71           18-19-jun         12:05:08         592         25.1         25.8         0.7         37         16.71           18-19-jun         13:05:08         592         25.8         26.5         0.7         38         16.70           18-19-jun	18-19-jun	2:05:08	591	6.5	4.7	-1.8	32	16.70
18-19-jun         5:05:08         591         5.5         3.3         -2.2         32         16.70           18-19-jun         6:05:08         591         11.8         9.1         -2.7         33         16.71           18-19-jun         7:05:08         592         18.2         16.5         -1.7         34         16.71           18-19-jun         8:05:08         592         20.3         20.6         0.4         36         16.70           18-19-jun         9:05:08         592         21.9         22.9         1.0         37         16.70           18-19-jun         10:05:08         592         23.2         24.4         1.2         37         16.71           18-19-jun         11:05:08         592         24.0         25.2         1.2         37         16.71           18-19-jun         12:05:08         592         25.1         25.8         0.7         37         16.71           18-19-jun         13:05:08         592         25.8         26.5         0.7         38         16.70           18-19-jun         14:05:08         592         26.0         27.4         1.4         38         16.70           18-19-jun	18-19-jun	3:05:08	591	5.6	4.1	-1.5	32	16.71
18-19-jun     6:05:08     591     11.8     9.1     -2.7     33     16.71       18-19-jun     7:05:08     592     18.2     16.5     -1.7     34     16.71       18-19-jun     8:05:08     592     20.3     20.6     0.4     36     16.70       18-19-jun     9:05:08     592     21.9     22.9     1.0     37     16.70       18-19-jun     10:05:08     592     23.2     24.4     1.2     37     16.71       18-19-jun     11:05:08     592     24.0     25.2     1.2     37     16.71       18-19-jun     12:05:08     592     25.1     25.8     0.7     37     16.71       18-19-jun     13:05:08     592     25.8     26.5     0.7     38     16.70       18-19-jun     14:05:08     592     26.0     27.4     1.4     38     16.70       18-19-jun     16:05:08     592     26.3     27.8     1.6     38     16.70       18-19-jun     16:05:08     591     26.0     27.6     1.6     38     16.70       18-19-jun     18:05:08     591     24.6     25.5     1.0     38     16.70       18-19-jun     19:05:08     592 <td>18-19-jun</td> <td>4:05:08</td> <td>591</td> <td>4.2</td> <td>2.9</td> <td>-1.3</td> <td>32</td> <td>16.71</td>	18-19-jun	4:05:08	591	4.2	2.9	-1.3	32	16.71
18-19-jun     7:05:08     592     18.2     16.5     -1.7     34     16.71       18-19-jun     8:05:08     592     20.3     20.6     0.4     36     16.70       18-19-jun     9:05:08     592     21.9     22.9     1.0     37     16.70       18-19-jun     10:05:08     592     23.2     24.4     1.2     37     16.71       18-19-jun     11:05:08     592     24.0     25.2     1.2     37     16.71       18-19-jun     12:05:08     592     25.1     25.8     0.7     37     16.71       18-19-jun     13:05:08     592     25.8     26.5     0.7     38     16.70       18-19-jun     14:05:08     592     26.0     27.4     1.4     38     16.70       18-19-jun     15:05:08     592     26.3     27.8     1.6     38     16.70       18-19-jun     16:05:08     591     26.0     27.6     1.6     38     16.70       18-19-jun     18:05:08     591     26.0     27.3     1.4     38     16.70       18-19-jun     19:05:08     591     24.6     25.5     1.0     38     16.70       18-19-jun     19:05:08     592 <td>18-19-jun</td> <td>5:05:08</td> <td>591</td> <td>5.5</td> <td>3.3</td> <td>-2.2</td> <td>32</td> <td>16.70</td>	18-19-jun	5:05:08	591	5.5	3.3	-2.2	32	16.70
18-19-jun     8:05:08     592     20.3     20.6     0.4     36     16.70       18-19-jun     9:05:08     592     21.9     22.9     1.0     37     16.70       18-19-jun     10:05:08     592     23.2     24.4     1.2     37     16.71       18-19-jun     11:05:08     592     24.0     25.2     1.2     37     16.71       18-19-jun     12:05:08     592     25.1     25.8     0.7     37     16.71       18-19-jun     13:05:08     592     25.8     26.5     0.7     38     16.70       18-19-jun     14:05:08     592     26.0     27.4     1.4     38     16.70       18-19-jun     15:05:08     592     26.3     27.8     1.6     38     16.70       18-19-jun     16:05:08     591     26.0     27.6     1.6     38     16.70       18-19-jun     17:05:08     591     26.0     27.3     1.4     38     16.70       18-19-jun     18:05:08     591     24.6     25.5     1.0     38     16.70       18-19-jun     19:05:08     592     21.8     22.1     0.3     37     16.71       18-19-jun     20:05:08     592 <td>18-19-jun</td> <td>6:05:08</td> <td>591</td> <td>11.8</td> <td>9.1</td> <td>-2.7</td> <td>33</td> <td>16.71</td>	18-19-jun	6:05:08	591	11.8	9.1	-2.7	33	16.71
18-19-jun     9:05:08     592     21.9     22.9     1.0     37     16.70       18-19-jun     10:05:08     592     23.2     24.4     1.2     37     16.71       18-19-jun     11:05:08     592     24.0     25.2     1.2     37     16.71       18-19-jun     12:05:08     592     25.1     25.8     0.7     37     16.71       18-19-jun     13:05:08     592     25.8     26.5     0.7     38     16.70       18-19-jun     14:05:08     592     26.0     27.4     1.4     38     16.70       18-19-jun     15:05:08     592     26.3     27.8     1.6     38     16.70       18-19-jun     16:05:08     591     26.0     27.6     1.6     38     16.70       18-19-jun     17:05:08     591     26.0     27.3     1.4     38     16.70       18-19-jun     18:05:08     591     24.6     25.5     1.0     38     16.70       18-19-jun     19:05:08     592     21.8     22.1     0.3     37     16.71       18-19-jun     20:05:08     592     17.1     17.1     0.0     37     16.71       18-19-jun     21:05:08     592 </td <td>18-19-jun</td> <td>7:05:08</td> <td>592</td> <td>18.2</td> <td>16.5</td> <td>-1.7</td> <td>34</td> <td>16.71</td>	18-19-jun	7:05:08	592	18.2	16.5	-1.7	34	16.71
18-19-jun     10:05:08     592     23.2     24.4     1.2     37     16.71       18-19-jun     11:05:08     592     24.0     25.2     1.2     37     16.71       18-19-jun     12:05:08     592     25.1     25.8     0.7     37     16.71       18-19-jun     13:05:08     592     25.8     26.5     0.7     38     16.70       18-19-jun     14:05:08     592     26.0     27.4     1.4     38     16.70       18-19-jun     15:05:08     592     26.3     27.8     1.6     38     16.70       18-19-jun     16:05:08     591     26.0     27.6     1.6     38     16.70       18-19-jun     17:05:08     591     26.0     27.3     1.4     38     16.70       18-19-jun     18:05:08     591     24.6     25.5     1.0     38     16.70       18-19-jun     19:05:08     592     21.8     22.1     0.3     37     16.71       18-19-jun     20:05:08     592     17.1     17.1     0.0     37     16.71       18-19-jun     21:05:08     592     13.8     13.2     -0.6     37     16.71       18-19-jun     22:05:08     592	18-19-jun	8:05:08	592	20.3	20.6	0.4	36	16.70
18-19-jun     11:05:08     592     24.0     25.2     1.2     37     16.71       18-19-jun     12:05:08     592     25.1     25.8     0.7     37     16.71       18-19-jun     13:05:08     592     25.8     26.5     0.7     38     16.70       18-19-jun     14:05:08     592     26.0     27.4     1.4     38     16.70       18-19-jun     15:05:08     592     26.3     27.8     1.6     38     16.70       18-19-jun     16:05:08     591     26.0     27.6     1.6     38     16.70       18-19-jun     17:05:08     591     26.0     27.3     1.4     38     16.70       18-19-jun     18:05:08     591     24.6     25.5     1.0     38     16.70       18-19-jun     19:05:08     592     21.8     22.1     0.3     37     16.71       18-19-jun     20:05:08     592     17.1     17.1     0.0     37     16.71       18-19-jun     21:05:08     592     13.8     13.2     -0.6     37     16.71       18-19-jun     22:05:08     592     12.9     11.4     -1.5     36     16.71	18-19-jun	9:05:08	592	21.9	22.9	1.0	37	16.70
18-19-jun     12:05:08     592     25.1     25.8     0.7     37     16.71       18-19-jun     13:05:08     592     25.8     26.5     0.7     38     16.70       18-19-jun     14:05:08     592     26.0     27.4     1.4     38     16.70       18-19-jun     15:05:08     592     26.3     27.8     1.6     38     16.70       18-19-jun     16:05:08     591     26.0     27.6     1.6     38     16.70       18-19-jun     17:05:08     591     26.0     27.3     1.4     38     16.70       18-19-jun     18:05:08     591     24.6     25.5     1.0     38     16.70       18-19-jun     19:05:08     592     21.8     22.1     0.3     37     16.71       18-19-jun     20:05:08     592     17.1     17.1     0.0     37     16.71       18-19-jun     21:05:08     592     13.8     13.2     -0.6     37     16.71       18-19-jun     22:05:08     592     12.9     11.4     -1.5     36     16.71	18-19-jun	10:05:08	592	23.2	24.4	1.2	37	16.71
18-19-jun     13:05:08     592     25.8     26.5     0.7     38     16.70       18-19-jun     14:05:08     592     26.0     27.4     1.4     38     16.70       18-19-jun     15:05:08     592     26.3     27.8     1.6     38     16.70       18-19-jun     16:05:08     591     26.0     27.6     1.6     38     16.70       18-19-jun     17:05:08     591     26.0     27.3     1.4     38     16.70       18-19-jun     18:05:08     591     24.6     25.5     1.0     38     16.70       18-19-jun     19:05:08     592     21.8     22.1     0.3     37     16.71       18-19-jun     20:05:08     592     17.1     17.1     0.0     37     16.71       18-19-jun     21:05:08     592     13.8     13.2     -0.6     37     16.71       18-19-jun     22:05:08     592     12.9     11.4     -1.5     36     16.71	18-19-jun	11:05:08	592	24.0	25.2	1.2	37	16.71
18-19-jun     14:05:08     592     26.0     27.4     1.4     38     16.70       18-19-jun     15:05:08     592     26.3     27.8     1.6     38     16.70       18-19-jun     16:05:08     591     26.0     27.6     1.6     38     16.70       18-19-jun     17:05:08     591     26.0     27.3     1.4     38     16.70       18-19-jun     18:05:08     591     24.6     25.5     1.0     38     16.70       18-19-jun     19:05:08     592     21.8     22.1     0.3     37     16.71       18-19-jun     20:05:08     592     17.1     17.1     0.0     37     16.71       18-19-jun     21:05:08     592     13.8     13.2     -0.6     37     16.71       18-19-jun     22:05:08     592     12.9     11.4     -1.5     36     16.71	18-19-jun	12:05:08	592	25.1	25.8	0.7	37	16.71
18-19-jun     15:05:08     592     26.3     27.8     1.6     38     16.70       18-19-jun     16:05:08     591     26.0     27.6     1.6     38     16.70       18-19-jun     17:05:08     591     26.0     27.3     1.4     38     16.70       18-19-jun     18:05:08     591     24.6     25.5     1.0     38     16.70       18-19-jun     19:05:08     592     21.8     22.1     0.3     37     16.71       18-19-jun     20:05:08     592     17.1     17.1     0.0     37     16.71       18-19-jun     21:05:08     592     13.8     13.2     -0.6     37     16.71       18-19-jun     22:05:08     592     12.9     11.4     -1.5     36     16.71	18-19-jun	13:05:08	592	25.8	26.5	0.7	38	16.70
18-19-jun     16:05:08     591     26.0     27.6     1.6     38     16.70       18-19-jun     17:05:08     591     26.0     27.3     1.4     38     16.70       18-19-jun     18:05:08     591     24.6     25.5     1.0     38     16.70       18-19-jun     19:05:08     592     21.8     22.1     0.3     37     16.71       18-19-jun     20:05:08     592     17.1     17.1     0.0     37     16.71       18-19-jun     21:05:08     592     13.8     13.2     -0.6     37     16.71       18-19-jun     22:05:08     592     12.9     11.4     -1.5     36     16.71	18-19-jun	14:05:08	592	26.0	27.4	1.4	38	16.70
18-19-jun     17:05:08     591     26.0     27.3     1.4     38     16.70       18-19-jun     18:05:08     591     24.6     25.5     1.0     38     16.70       18-19-jun     19:05:08     592     21.8     22.1     0.3     37     16.71       18-19-jun     20:05:08     592     17.1     17.1     0.0     37     16.71       18-19-jun     21:05:08     592     13.8     13.2     -0.6     37     16.71       18-19-jun     22:05:08     592     12.9     11.4     -1.5     36     16.71	18-19-jun	15:05:08	592	26.3	27.8	1.6	38	16.70
18-19-jun     18:05:08     591     24.6     25.5     1.0     38     16.70       18-19-jun     19:05:08     592     21.8     22.1     0.3     37     16.71       18-19-jun     20:05:08     592     17.1     17.1     0.0     37     16.71       18-19-jun     21:05:08     592     13.8     13.2     -0.6     37     16.71       18-19-jun     22:05:08     592     12.9     11.4     -1.5     36     16.71	18-19-jun	16:05:08	591	26.0	27.6	1.6	38	16.70
18-19-jun     19:05:08     592     21.8     22.1     0.3     37     16.71       18-19-jun     20:05:08     592     17.1     17.1     0.0     37     16.71       18-19-jun     21:05:08     592     13.8     13.2     -0.6     37     16.71       18-19-jun     22:05:08     592     12.9     11.4     -1.5     36     16.71	18-19-jun	17:05:08	591	26.0	27.3	1.4	38	16.70
18-19-jun     20:05:08     592     17.1     17.1     0.0     37     16.71       18-19-jun     21:05:08     592     13.8     13.2     -0.6     37     16.71       18-19-jun     22:05:08     592     12.9     11.4     -1.5     36     16.71	18-19-jun	18:05:08	591	24.6	25.5	1.0	38	16.70
18-19-jun     21:05:08     592     13.8     13.2     -0.6     37     16.71       18-19-jun     22:05:08     592     12.9     11.4     -1.5     36     16.71	18-19-jun	19:05:08	592	21.8	22.1	0.3	37	16.71
18-19-jun 22:05:08 592 12.9 11.4 -1.5 36 16.71	18-19-jun	20:05:08	592	17.1	17.1	0.0	37	16.71
	18-19-jun	21:05:08	592	13.8	13.2	-0.6	37	16.71
18-19-jun 23:05:08 592 11.7 10.2 -1.5 36 16.71	18-19-jun	22:05:08	592	12.9	11.4	-1.5	36	16.71
	18-19-jun	23:05:08	592	11.7	10.2	-1.5	36	16.71



#### PM₁₀ Sampler Summary

#### April 1, 2018 - June 30, 2018

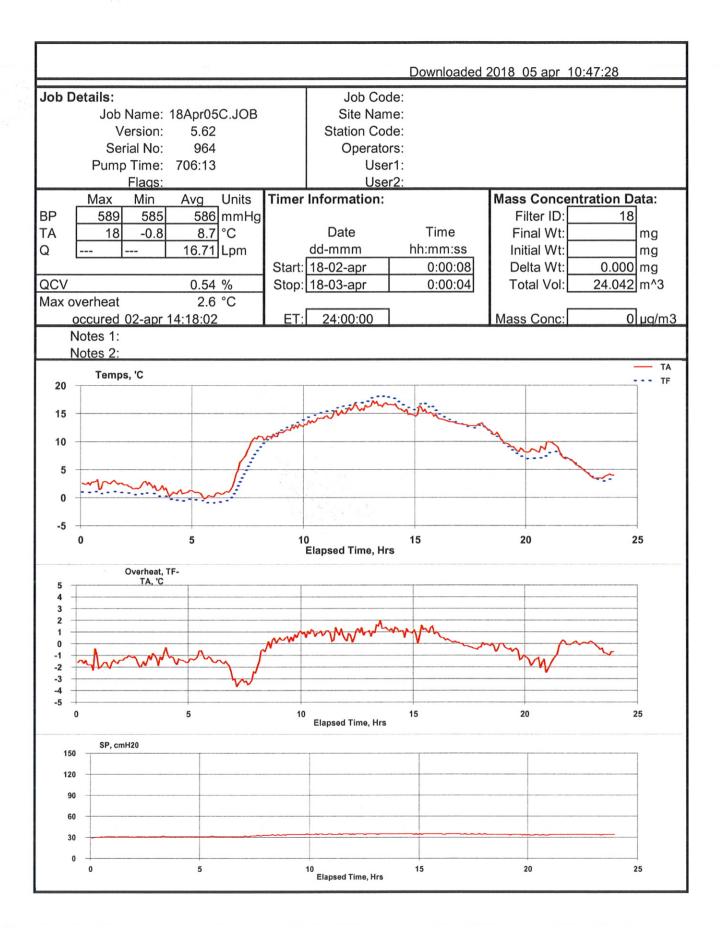
**Network: Alton Coal Development** 

Site: Coal Hollow

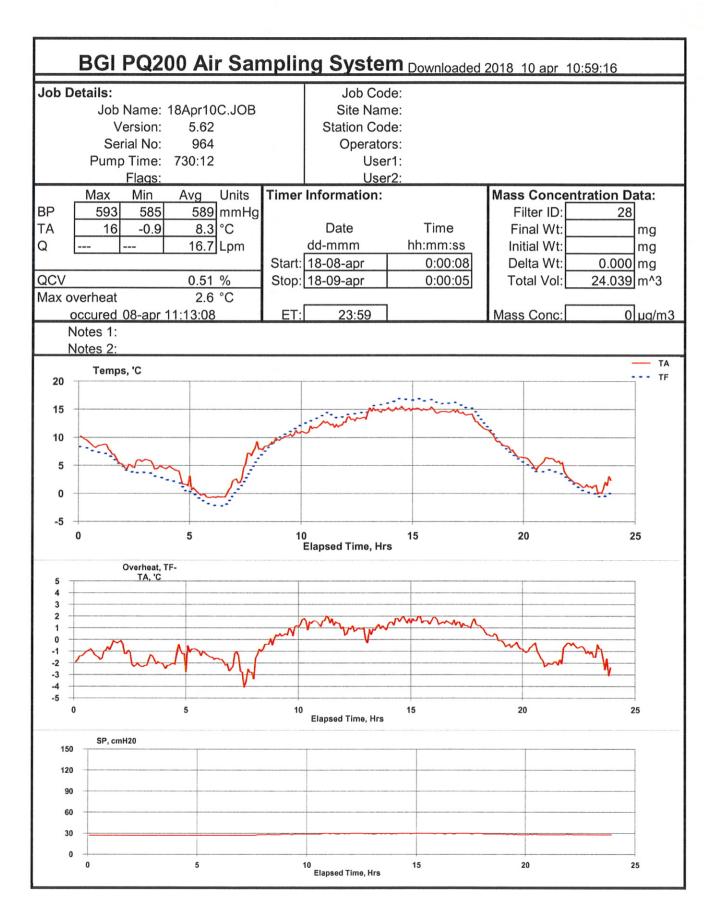
Sampler ID: Coal Hollow-C AQS ID:

Sampler Type: BGI FRM Single

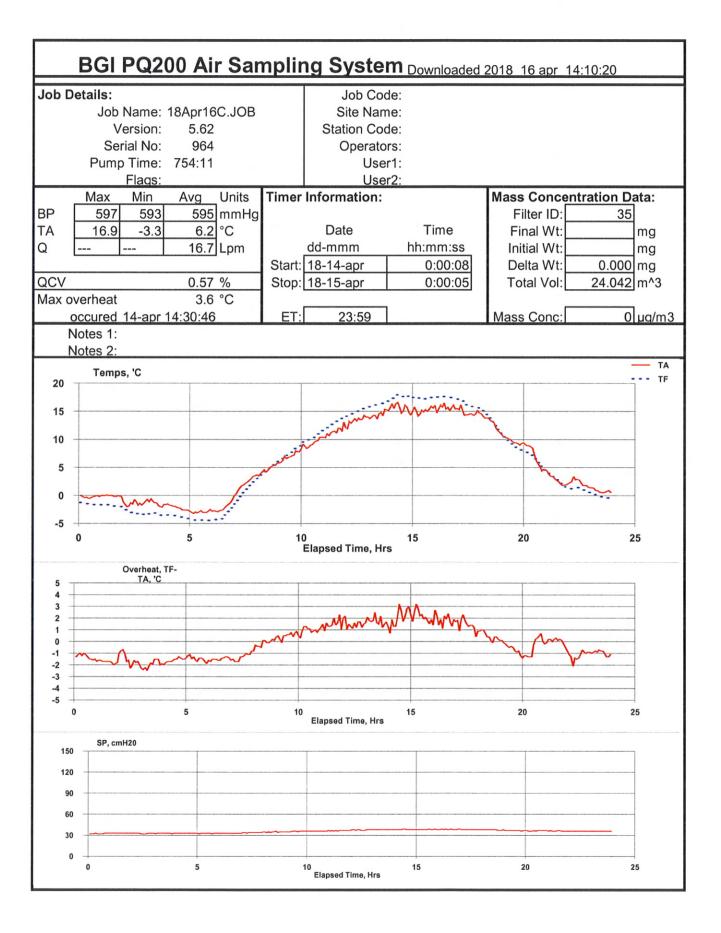
	Filter	Concentration (µg/m3)	Concentration (µg/m3)	Sample Period	Sample Volume	Std Volume	Tare	Mass Gross	Net		
Date	ID	LTP	STP	(hr:min)	(m3)	(m3)	(mg)	(mg)	(mg)	Flag	Comments
04/02/18	P2946890	10.3	12.6	24:00	24.0	19.6	377.995	378.243	0.248	HT	
04/08/18	P2947090	7.2	8.8	23:59	24.0	19.7	365.754	365.929	0.175	HT	
04/14/18	P2947095	7.1	8.6	23:59	24.0	20.1	372.896	373.069	0.173		
04/20/18	P2947100	18.6	22.2	23:59	24.0	20.1	373.078	373.527	0.449		
04/26/18	P2947325	34.4	42.5	23:59	24.0	19.4	386.786	387.613	0.827		
05/02/18	P2947331	Invalid - AG	Invalid - AG	13:24	13.4	11.2	377.314		0.113	SP,FE,HT	
05/08/18	P2947559	40.9	51.1	23:59	24.0	19.3	369.516		0.985		
05/14/18	P2947565	32.1	39.4	23:59	24.0	19.6	370.423		0.772		
05/20/18	P2947771	Invalid - AG	Invalid - AG	6:58	7.0	5.8	373.439		0.038	SP,FE	
05/26/18	P2947776	Invalid - AG	Invalid - AG	6:01	6.0	4.7	376.583		0.734	SP	
06/01/18	P2947781	10.5	13.0	23:59	24.0	19.3	370.547		0.253		
06/07/18	P2948033	25.6	32.0	23:59	24.0	19.2	378.472		0.616		
06/13/18	P2948039	41.1	52.0	23:59	24.0	19.0	373.285		0.988		
06/19/18	P2948232	28.2	35.2	23:59	24.0	19.2	370.543		0.679		
06/25/18	P2948238	31.7	40.1	23:59	24.0	19.0	370.953	371.716	0.763		
05/09/18	P2947562		Field Bla	nk			373.864	373.872	0.008		
	# Valid 12	Recovery 80%	Average 29.8	St. Dev. 16.1	Max 52.0	Min 8.6					



0:04:56	588	2.5	1.0	-1.6	30	16.71
1:04:56	588	2.6	0.9	-1.7	31	16.71
2:04:56	587	2.1	0.7	-1.4	31	16.72
3:04:56	587	1.6	0.4	-1.2	31	16.72
4:04:56	587	1.0	-0.4	-1.4	31	16.73
5:04:56	587	0.5	-0.7	-1.1	31	16.72
6:04:56	587	1.5	-0.3	-1.8	31	16.71
7:04:56	587	8.5	5.4	-3.1	32	16.71
8:04:56	587	11.0	10.6	-0.4	33	16.71
9:04:56	587	12.4	12.9	0.5	34	16.71
10:04:56	587	13.8	14.6	0.9	34	16.72
11:04:56	586	14.9	15.7	0.8	35	16.70
12:04:56	586	16.0	16.8	0.8	35	16.71
13:04:56	586	16.7	17.9	1.3	35	16.72
14:04:56	585	15.6	16.6	1.1	35	16.71
15:04:56	585	15.2	16.2	1.0	35	16.71
16:04:56	585	13.7	14.1	0.4	35	16.71
17:04:56	585	13.0	12.7	-0.2	34	16.71
18:04:56	585	11.7	11.5	-0.2	34	16.71
19:04:56	585	8.9	8.3	-0.6	34	16.71
20:04:56	586	8.6	7.0	-1.6	33	16.71
21:04:56	587	8.4	7.7	-0.7	34	16.72
22:04:56	587	5.3	5.4	0.0	34	16.71
23:04:56	588	3.7	3.2	-0.5	34	16.72
	1:04:56 2:04:56 3:04:56 4:04:56 5:04:56 6:04:56 7:04:56 8:04:56 9:04:56 10:04:56 11:04:56 12:04:56 13:04:56 14:04:56 15:04:56 17:04:56 18:04:56 19:04:56 20:04:56 21:04:56 21:04:56	1:04:56       588         2:04:56       587         3:04:56       587         4:04:56       587         5:04:56       587         6:04:56       587         7:04:56       587         8:04:56       587         9:04:56       587         10:04:56       587         11:04:56       586         12:04:56       586         13:04:56       586         13:04:56       585         15:04:56       585         16:04:56       585         17:04:56       585         19:04:56       585         20:04:56       586         21:04:56       587         22:04:56       587	1:04:56         588         2.6           2:04:56         587         2.1           3:04:56         587         1.6           4:04:56         587         1.0           5:04:56         587         0.5           6:04:56         587         1.5           7:04:56         587         8.5           8:04:56         587         11.0           9:04:56         587         12.4           10:04:56         587         13.8           11:04:56         586         14.9           12:04:56         586         16.0           13:04:56         586         16.7           14:04:56         585         15.6           15:04:56         585         15.2           16:04:56         585         13.7           17:04:56         585         13.0           18:04:56         585         11.7           19:04:56         585         8.9           20:04:56         586         8.6           21:04:56         587         8.4           22:04:56         587         5.3	1:04:56       588       2.6       0.9         2:04:56       587       2.1       0.7         3:04:56       587       1.6       0.4         4:04:56       587       1.0       -0.4         5:04:56       587       0.5       -0.7         6:04:56       587       1.5       -0.3         7:04:56       587       8.5       5.4         8:04:56       587       11.0       10.6         9:04:56       587       12.4       12.9         10:04:56       587       13.8       14.6         11:04:56       586       14.9       15.7         12:04:56       586       16.0       16.8         13:04:56       586       16.7       17.9         14:04:56       585       15.6       16.6         15:04:56       585       15.2       16.2         16:04:56       585       13.7       14.1         17:04:56       585       13.7       14.1         17:04:56       585       11.7       11.5         19:04:56       585       8.9       8.3         20:04:56       586       8.6       7.0 <td< td=""><td>1:04:56       588       2.6       0.9       -1.7         2:04:56       587       2.1       0.7       -1.4         3:04:56       587       1.6       0.4       -1.2         4:04:56       587       1.0       -0.4       -1.4         5:04:56       587       0.5       -0.7       -1.1         6:04:56       587       1.5       -0.3       -1.8         7:04:56       587       8.5       5.4       -3.1         8:04:56       587       11.0       10.6       -0.4         9:04:56       587       12.4       12.9       0.5         10:04:56       587       13.8       14.6       0.9         11:04:56       586       14.9       15.7       0.8         12:04:56       586       16.0       16.8       0.8         13:04:56       586       16.7       17.9       1.3         14:04:56       585       15.6       16.6       1.1         15:04:56       585       15.2       16.2       1.0         16:04:56       585       13.0       12.7       -0.2         18:04:56       585       13.0       12.7       -0.2<td>1:04:56         588         2.6         0.9         -1.7         31           2:04:56         587         2.1         0.7         -1.4         31           3:04:56         587         1.6         0.4         -1.2         31           4:04:56         587         1.0         -0.4         -1.4         31           5:04:56         587         0.5         -0.7         -1.1         31           6:04:56         587         1.5         -0.3         -1.8         31           7:04:56         587         8.5         5.4         -3.1         32           8:04:56         587         11.0         10.6         -0.4         33           9:04:56         587         12.4         12.9         0.5         34           10:04:56         587         13.8         14.6         0.9         34           11:04:56         586         14.9         15.7         0.8         35           12:04:56         586         16.0         16.8         0.8         35           13:04:56         585         15.6         16.6         1.1         35           15:04:56         585         15.2         16.</td></td></td<>	1:04:56       588       2.6       0.9       -1.7         2:04:56       587       2.1       0.7       -1.4         3:04:56       587       1.6       0.4       -1.2         4:04:56       587       1.0       -0.4       -1.4         5:04:56       587       0.5       -0.7       -1.1         6:04:56       587       1.5       -0.3       -1.8         7:04:56       587       8.5       5.4       -3.1         8:04:56       587       11.0       10.6       -0.4         9:04:56       587       12.4       12.9       0.5         10:04:56       587       13.8       14.6       0.9         11:04:56       586       14.9       15.7       0.8         12:04:56       586       16.0       16.8       0.8         13:04:56       586       16.7       17.9       1.3         14:04:56       585       15.6       16.6       1.1         15:04:56       585       15.2       16.2       1.0         16:04:56       585       13.0       12.7       -0.2         18:04:56       585       13.0       12.7       -0.2 <td>1:04:56         588         2.6         0.9         -1.7         31           2:04:56         587         2.1         0.7         -1.4         31           3:04:56         587         1.6         0.4         -1.2         31           4:04:56         587         1.0         -0.4         -1.4         31           5:04:56         587         0.5         -0.7         -1.1         31           6:04:56         587         1.5         -0.3         -1.8         31           7:04:56         587         8.5         5.4         -3.1         32           8:04:56         587         11.0         10.6         -0.4         33           9:04:56         587         12.4         12.9         0.5         34           10:04:56         587         13.8         14.6         0.9         34           11:04:56         586         14.9         15.7         0.8         35           12:04:56         586         16.0         16.8         0.8         35           13:04:56         585         15.6         16.6         1.1         35           15:04:56         585         15.2         16.</td>	1:04:56         588         2.6         0.9         -1.7         31           2:04:56         587         2.1         0.7         -1.4         31           3:04:56         587         1.6         0.4         -1.2         31           4:04:56         587         1.0         -0.4         -1.4         31           5:04:56         587         0.5         -0.7         -1.1         31           6:04:56         587         1.5         -0.3         -1.8         31           7:04:56         587         8.5         5.4         -3.1         32           8:04:56         587         11.0         10.6         -0.4         33           9:04:56         587         12.4         12.9         0.5         34           10:04:56         587         13.8         14.6         0.9         34           11:04:56         586         14.9         15.7         0.8         35           12:04:56         586         16.0         16.8         0.8         35           13:04:56         585         15.6         16.6         1.1         35           15:04:56         585         15.2         16.



18-08-apr	0:05:08	587	9.1	7.8	-1.3	27	16.71
18-08-apr	1:05:08	587	7.0	6.2	-0.8	27	16.71
18-08-apr	2:05:08	587	5.3	3.8	-1.5	27	16.71
18-08-apr	3:05:08	588	5.0	3.1	-1.9	27	16.71
18-08-apr	4:05:08	588	3.2	1.5	-1.7	27	16.71
18-08-apr	5:05:08	588	-0.1	-1.1	-1.0	27	16.71
18-08-apr	6:05:08	589	0.2	-1.7	-1.9	27	16.72
18-08-apr	7:05:08	589	5.4	2.9	-2.6	27	16.71
18-08-apr	8:05:08	590	8.8	8.2	-0.6	28	16.71
18-08-apr	9:05:08	590	10.5	11.1	0.7	29	16.71
18-08-apr	10:05:08	590	11.7	13.1	1.4	29	16.71
18-08-apr	11:05:08	590	12.4	13.9	1.5	30	16.70
18-08-apr	12:05:08	590	13.5	14.3	8.0	30	16.71
18-08-apr	13:05:08	590	14.9	15.8	0.9	30	16.71
18-08-apr	14:05:08	590	15.1	16.7	1.6	30	16.72
18-08-apr	15:05:08	590	15.0	16.7	1.7	30	16.69
18-08-apr	16:05:08	590	14.6	16.1	1.5	30	16.70
18-08-apr	17:05:08	591	13.8	15.1	1.3	30	16.74
18-08-apr	18:05:08	591	10.5	11.0	0.5	29	16.71
18-08-apr	19:05:08	591	7.5	7.0	-0.5	28	16.71
18-08-apr	20:05:08	592	5.5	4.4	-1.1	28	16.71
18-08-apr	21:05:08	592	5.3	3.6	-1.6	28	16.71
18-08-apr	22:05:08	592	1.7	1.0	-0.7	28	16.71
18-08-apr	23:05:08	592	1.3	-0.3	-1.6	28	16.72



18-14-apr	0:05:08	596	-0.2	-1.5	-1.3	32	16.72
18-14-apr	1:05:08	596	-0.2	-1.8	-1.7	33	16.71
18-14-apr	2:05:08	596	-1.4	-3.1	-1.6	33	16.72
18-14-apr	3:05:08	596	-1.4	-3.3	-2.0	33	16.71
18-14-apr	4:05:08	596	-2.3	-3.8	-1.6	33	16.70
18-14-apr	5:05:08	596	-2.9	-4.4	-1.5	33	16.71
18-14-apr	6:05:08	597	-2.0	-3.4	-1.5	33	16.71
18-14-apr	7:05:08	597	2.3	1.0	-1.3	34	16.72
18-14-apr	8:05:08	597	4.8	4.7	-0.1	35	16.74
18-14-apr	9:05:08	597	7.2	7.7	0.5	36	16.72
18-14-apr	10:05:08	597	9.4	10.4	1.0	36	16.71
18-14-apr	11:05:08	596	11.5	13.0	1.5	37	16.70
18-14-apr	12:05:08	596	13.5	14.9	1.5	38	16.71
18-14-apr	13:05:08	595	14.6	16.3	1.7	38	16.72
18-14-apr	14:05:08	595	15.5	17.6	2.1	38	16.71
18-14-apr	15:05:08	594	15.3	17.4	2.1	38	16.71
18-14-apr	16:05:08	594	15.6	17.5	1.9	38	16.70
18-14-apr	17:05:08	594	14.8	16.2	1.4	38	16.71
18-14-apr	18:05:08	594	13.0	13.4	0.5	38	16.71
18-14-apr	19:05:08	594	9.7	9.1	-0.6	37	16.71
18-14-apr	20:05:08	594	6.8	6.4	-0.4	37	16.71
18-14-apr	21:05:08	595	2.7	2.7	0.0	36	16.71
18-14-apr	22:05:08	595	2.3	1.1	-1.2	36	16.71
18-14-apr	23:05:08	594	0.8	-0.1	-1.0	36	16.70

BGI PQ200 Air S	ampling System Downloaded	2018 23 apr 09:57:44
ob Details:	Job Code:	
Job Name: 18Apr23C.J0	OB Site Name: 964C	
Version: 5.62	Station Code:	
Serial No: 964	Operators: KN	
Pump Time: 778:10	User1:	7
Flags:	User2:	2
Max Min Avg Unit		Mass Concentration Data:
P 594 584 588 mm		Filter ID: 40
A 9.5 -3.7 2.2 °C	Date Time	Final Wt: mg
16.71 Lpn		Initial Wt: mg
10.71	Start: 18-20-apr 0:00:08	Delta Wt: 0.000 mg
CV 0.53 %	Stop: 18-21-apr 0:00:04	Total Vol: 24.042 m^3
ax overheat 3.4 °C	οιορ. <u>[10-21-αρί</u>   0.00.04]	10tai voi. <u>24.042</u> III 3
occured 20-apr 13:17:43	ET: 23:59	Mass Conc: 0 µg/m3
Notes 1:	1 [1.] 20.08 ]	Mass Colle.] Upg/IIIS
Notes 2:		
	TENNING AND	— та
Temps, 'C		TF
10	· · · · · · ·	
_	Awa Comment	in
5	June 1	٧ کيتو
0	اللا التوتور	il was
was a		***************************************
-5		
-10 0 5	10 15	20 25
0 5	Elapsed Time, Hrs	20 25
Agrim		
· ~\vv		
		ı

18-20-apr	0:05:08	586	-2.5	-3.7	-1.2	30	16.71
18-20-apr	1:05:08	586	-3.0	-4.2	-1.2	30	16.71
18-20-apr	2:05:08	586	-3.2	-4.4	-1.2	31	16.72
18-20-apr	3:05:08	586	-1.7	-2.9	-1.2	31	16.71
18-20-apr	4:05:08	586	-1.0	-1.5	-0.5	32	16.71
18-20-apr	5:05:08	586	-1.0	-1.2	-0.2	32	16.71
18-20-apr	6:05:08	586	-0.9	-1.1	-0.2	32	16.71
18-20-apr	7:05:08	586	-0.7	-0.7	0.1	32	16.70
18-20-apr	8:05:08	587	0.3	0.5	0.2	32	16.69
18-20-apr	9:05:08	587	3.1	3.6	0.5	33	16.72
18-20-apr	10:05:08	587	4.2	5.4	1.2	34	16.71
18-20-apr	11:05:08	588	3.7	3.9	0.2	33	16.71
18-20-apr	12:05:08	589	6.5	6.8	0.3	34	16.71
18-20-apr	13:05:08	590	2.8	4.0	1.2	33	16.70
18-20-apr	14:05:08	590	6.8	6.8	0.1	34	16.71
18-20-apr	15:05:08	591	7.6	8.4	8.0	34	16.71
18-20-apr	16:05:08	591	8.9	10.3	1.3	35	16.71
18-20-apr	17:05:08	592	8.3	9.7	1.4	34	16.71
18-20-apr	18:05:08	592	6.8	7.2	0.4	34	16.71
18-20-apr	19:05:08	592	4.5	4.0	-0.5	34	16.71
18-20-apr	20:05:08	593	2.0	1.5	-0.5	33	16.71
18-20-apr	21:05:08	593	-0.3	-0.7	-0.4	33	16.71
18-20-apr	22:05:08	593	0.9	-1.0	-2.0	33	16.71
18-20-apr	23:05:08	593	1.3	-0.6	-2.0	33	16.71

BGI PQ200 Air Sar	nplir	ng System	Downloaded	2018 27 apr 0	9:07:09
Job Details:  Job Name: 18Apr27C.JOB  Version: 5.62  Serial No: 964  Pump Time: 802:09		Job Code: Site Name: Station Code: Operators: User1:			
Flags:    Max   Min   Avg   Units       594   591   593   mmHg         16.7   Lpm       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C       C   C    -	Start:	User2: Information:  Date dd-mmm 18-26-apr 18-27-apr	Time hh:mm:ss 0:00:08 0:00:05	Mass Conce Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol:  Mass Conc:	ntration Data: 6 mg mg 0.000 mg 24.04 m^3
Notes 2:	المنازعة ا		***********	• • • • • • • • • • • • • • • • • • • •	
			5		•••••
				2	
Overheat, TF-					

0:05:08	594	6.7	5.3	-1.4	27	16.71
1:05:08	593	5.3	4.2	-1.1	27	16.71
2:05:08	593	4.2	3.0	-1.2	27	16.72
3:05:08	593	5.3	3.3	-2.1	28	16.71
4:05:08	593	5.3	3.5	-1.8	28	16.71
5:05:08	593	5.7	3.9	-1.8	28	16.71
6:05:08	594	10.0	7.2	-2.8	28	16.71
7:05:08	594	14.4	12.9	-1.5	30	16.71
8:05:08	594	17.1	16.9	-0.2	30	16.71
9:05:08	594	19.0	19.9	0.9	31	16.70
10:05:08	594	20.6	22.0	1.4	32	16.72
11:05:08	594	21.6	23.2	1.6	32	16.71
12:05:08	593	22.6	24.2	1.6	32	16.71
13:05:08	593	23.0	25.0	2.0	32	16.72
14:05:08	593	23.3	25.4	2.1	32	16.70
15:05:08	592	22.5	24.6	2.0	33	16.71
16:05:08	592	22.2	23.8	1.5	32	16.71
17:05:08	592	21.5	22.2	0.7	32	16.71
18:05:08	592	19.8	20.4	0.6	32	16.72
19:05:08	592	16.4	16.3	-0.1	32	16.71
20:05:08	593	13.9	12.9	-1.0	31	16.72
21:05:08	593	10.6	10.2	-0.5	31	16.70
22:05:08	593	8.0	7.4	-0.6	31	16.73
23:05:08	593	7.1	5.9	-1.1	31	16.71
	1:05:08 2:05:08 3:05:08 4:05:08 5:05:08 6:05:08 7:05:08 8:05:08 9:05:08 10:05:08 12:05:08 13:05:08 14:05:08 15:05:08 17:05:08 18:05:08 19:05:08 2:05:08	1:05:08     593       2:05:08     593       3:05:08     593       4:05:08     593       5:05:08     593       6:05:08     594       7:05:08     594       8:05:08     594       9:05:08     594       10:05:08     594       11:05:08     594       12:05:08     593       13:05:08     593       15:05:08     593       15:05:08     592       16:05:08     592       17:05:08     592       19:05:08     592       20:05:08     593       21:05:08     593       22:05:08     593       22:05:08     593	1:05:08     593     5.3       2:05:08     593     4.2       3:05:08     593     5.3       4:05:08     593     5.3       5:05:08     593     5.7       6:05:08     594     10.0       7:05:08     594     14.4       8:05:08     594     17.1       9:05:08     594     19.0       10:05:08     594     20.6       11:05:08     594     21.6       12:05:08     593     22.6       13:05:08     593     23.0       14:05:08     593     23.3       15:05:08     592     22.5       16:05:08     592     22.2       17:05:08     592     21.5       18:05:08     592     19.8       19:05:08     592     16.4       20:05:08     593     13.9       21:05:08     593     10.6       22:05:08     593     8.0	1:05:08       593       5.3       4.2         2:05:08       593       4.2       3.0         3:05:08       593       5.3       3.3         4:05:08       593       5.3       3.5         5:05:08       593       5.7       3.9         6:05:08       594       10.0       7.2         7:05:08       594       14.4       12.9         8:05:08       594       17.1       16.9         9:05:08       594       19.0       19.9         10:05:08       594       20.6       22.0         11:05:08       594       21.6       23.2         12:05:08       593       22.6       24.2         13:05:08       593       23.0       25.0         14:05:08       593       23.3       25.4         15:05:08       592       22.5       24.6         16:05:08       592       22.5       24.6         16:05:08       592       21.5       22.2         18:05:08       592       19.8       20.4         19:05:08       592       16.4       16.3         20:05:08       593       13.9       12.9	1:05:08       593       5.3       4.2       -1.1         2:05:08       593       4.2       3.0       -1.2         3:05:08       593       5.3       3.3       -2.1         4:05:08       593       5.3       3.5       -1.8         5:05:08       593       5.7       3.9       -1.8         6:05:08       594       10.0       7.2       -2.8         7:05:08       594       10.0       7.2       -2.8         7:05:08       594       14.4       12.9       -1.5         8:05:08       594       17.1       16.9       -0.2         9:05:08       594       19.0       19.9       0.9         10:05:08       594       20.6       22.0       1.4         11:05:08       594       21.6       23.2       1.6         12:05:08       593       23.0       25.0       2.0         14:05:08       593       23.0       25.0       2.0         14:05:08       593       23.3       25.4       2.1         15:05:08       592       22.5       24.6       2.0         16:05:08       592       22.2       23.8       1.5	1:05:08         593         5.3         4.2         -1.1         27           2:05:08         593         4.2         3.0         -1.2         27           3:05:08         593         5.3         3.3         -2.1         28           4:05:08         593         5.3         3.5         -1.8         28           5:05:08         593         5.7         3.9         -1.8         28           6:05:08         594         10.0         7.2         -2.8         28           7:05:08         594         10.0         7.2         -2.8         28           7:05:08         594         14.4         12.9         -1.5         30           8:05:08         594         17.1         16.9         -0.2         30           9:05:08         594         19.0         19.9         0.9         31           10:05:08         594         20.6         22.0         1.4         32           11:05:08         594         21.6         23.2         1.6         32           12:05:08         593         23.0         25.0         2.0         32           14:05:08         593         23.3         25.4

BGI PQ200 Air Sar	nplir	ng Syste	m Downloaded	2018 04 may 1	3:00:52
Job Details:		Job Cod	de:		
Job Name: 18May04C.JOB		Site Nam			
Version: 5.62		Station Cod			
Serial No: 964		Operato			
Pump Time: 1327:33		Use			
Flags: Q T		Use			
Max Min Avg Units	Timer	Information:	12.	Mass Concen	tration Data:
BP 589 585 587 mmHg		illioilliation.		Filter ID:	12
TA 3.7 -0.3 1.2 °C		Date	Time	Final Wt:	
Q   16.71 Lpm		dd-mmm	hh:mm:ss	Initial Wt:	mg mg
Q [ ] 10.71] Lpill	Ctort.	18-02-may		Delta Wt:	mg 0.000 mg
QCV 0 %			0:00:08		0.000 mg
QCV 0 % Max overheat 2.4 °C	Stop:	18-03-may	0:00:05	Total Vol:	13.378 m^3
	ET:	13:24		Mass Canai	0
occured 03-may 15:28:00 Notes 1:	<u> </u>	13.24		Mass Conc:	0 μg/m3
Notes 1: Notes 2:					
					— та
Temps, 'C					TF
7					
3			A	\ AM	
			~~~	W W Y	
2				1	
1			~		•
1		1 ~/			
0	/	W V			
	المعارية				
0 2 4		6	8 10	12	14
0 2 4	1	Elapsed Time, Hr	s	12	14
Overheat, TF-					
5 TA, 'C			T	1-:	
4 3					
2					
1				~~~~	
0			~~~		
-2	- 1				
-3					
-5				3	
0 2 4		6 Elapsed Time, Hrs	8 10	12	14
		,			
SP, cmH20					
120					
90					
60					
30					
0					
0 2 4		6 Elapsed Time, Hrs	8 10	12	14

18-02-may	0:05:08	587	0.5	-0.1	-0.6	25	16.71
18-02-may	1:05:08	587	1.1	0.2	-0.9	26	16.71
18-02-may	2:05:08	587	1.0	0.2	-0.8	26	16.71
18-02-may	3:05:08	587	0.3	-0.2	-0.6	26	16.73
18-02-may	4:05:08	587	-0.1	-0.7	-0.7	26	16.70
18-02-may	5:05:08	587	0.0	-0.6	-0.6	26	16.71
18-02-may	6:05:08	587	0.3	-0.1	-0.4	26	16.71
18-02-may	7:05:08	587	0.7	0.4	-0.3	26	16.71
18-02-may	8:05:08	588	1.9	1.3	-0.6	26	16.71
18-02-may	9:05:08	588	2.7	2.6	-0.2	27	16.71
18-02-may	10:05:08	588	2.8	3.2	0.4	27	16.70
18-02-may	11:05:08	588	2.9	3.7	8.0	27	16.70
18-02-may	12:05:08	588	1.3	2.0	0.7	27	16.71
18-02-may	13:05:08	588	0.6	0.8	0.2	27	16.70

BG	I PQ200	Air S	Sam	plir	ng Syster	n Downloade	d 2018 09	may 09	9:39:41
,	ob Name: 18ľ Version: Serial No: mp Time: 13٤	5.62 964	JOB		Job Cod Site Nam Station Cod Operator User	e: le: rs: -1:		· · · · · · · · · · · · · · · · · · ·	
TA 28 Q QCV Max overhe	96 592 3.7 4.7 eat ed 08-may 13	17.7 °C 16.7 Lpn 0.54 % 3.1 °C :37:59	nHg m	Start:	User Information: Date dd-mmm 18-08-may 18-09-may	Time hh:mm:ss 0:00:08 0:00:04	Filte Fina Initia	er ID:	ration Data: 24 mg mg 0.000 24.041 m/3
	mps, 'C	5		1	0 Elapsed Time, Hrs	15	ZO ZO	نكنىم	— TA — TF
5 4 3 2 1 0 -1 -2 -3 -4 -5	Overheat, TF- TA, 'C	5	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	10	Elapsed Time, Hrs	15	20	w.W.	25
150 120 90 60 30 0	P, cmH20	5			10 Elapsed Time, Hrs	15	20		25

18-08-may	0:05:08 5	95 8.4	6.2	-2.2	28	16.70
18-08-may	1:05:08 5	95 8.4	6.5	-1.9	28	16.71
18-08-may	2:05:08 5	94 6.6	5.4	-1.3	29	16.71
18-08-may	3:05:08 5	95 7.0	5.0	-2.0	29	16.71
18-08-may	4:05:08 5	94 6.9	5.0	-1.9	29	16.71
18-08-may	5:05:08 5	95 8.5	5.2	-3.3	29	16.70
18-08-may	6:05:08 5	95 13.0	10.7	-2.3	30	16.71
18-08-may	7:05:08 5	95 18.3	16.1	-2.2	31	16.71
18-08-may	8:05:08 5	95 22.0	21.4	-0.6	33	16.71
18-08-may	9:05:08 5	95 24.2	24.5	0.3	33	16.71
18-08-may	10:05:08 5	95 24.9	26.2	1.2	34	16.70
18-08-may	11:05:08 5	95 25.8	27.2	1.4	34	16.70
18-08-may	12:05:08 5	95 26.6	28.0	1.4	35	16.71
18-08-may	13:05:08 5	94 27.1	28.6	1.5	35	16.72
18-08-may	14:05:08 5	94 27.6	28.9	1.3	35	16.70
18-08-may	15:05:08 5	93 27.5	28.9	1.5	35	16.70
18-08-may	16:05:08 5	93 26.8	28.3	1.4	35	16.71
18-08-may	17:05:08 5	93 25.8	26.9	1.1	35	16.71
18-08-may	18:05:08 5	93 23.0	23.4	0.4	35	16.71
18-08-may	19:05:08 5	94 17.9	18.6	0.7	35	16.71
18-08-may	20:05:08 5	94 14.0	14.1	0.1	34	16.71
18-08-may	21:05:08 5	94 12.3	11.6	-0.7	34	16.71
18-08-may	22:05:08 5	94 11.4	10.2	-1.2	34	16.71
18-08-may	23:05:08 5	94 9.8	8.8	-1.0	34	16.71

BGI PQ200 Air Sampling System Downloaded 2018 15 may 10:55:50									
Job Details: Job Name: 18May15C.JOB Version: 5.62 Serial No: 964 Pump Time: 1375:31		Job Code: Site Name: Station Code: Operators: User1:							
Flags:	Start:	User2: Information: Date dd-mmm 18-14-may 18-15-may 23:59	Time hh:mm:ss 0:00:08 0:00:04	Mass Concen Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol: Mass Conc:	mg mg 0.000 mg 24.035 m^3				
Notes 1: Notes 2:		20.00		Timado Gorio.	орданно				
Temps, 'C 25 20 15 10 5 0 0 5	10	Elapsed Time, Hrs	15	20	25				
	~~~	wyr.lly Mr.	MWWA						
			24						

18-14-may	0:05:08	590	5.1	3.5	-1.6	26	16.71
18-14-may	1:05:08	590	4.4	3.2	-1.2	27	16.71
18-14-may	2:05:08	590	3.9	2.7	-1.2	27	16.70
18-14-may	3:05:08	590	3.4	2.3	-1.1	27	16.71
18-14-may	4:05:08	590	3.2	2.0	-1.2	27	16.71
18-14-may	5:05:08	591	2.9	1.7	-1.1	27	16.72
18-14-may	6:05:08	591	7.2	4.9	-2.3	27	16.71
18-14-may	7:05:08	591	11.0	10.5	-0.5	29	16.70
18-14-may	8:05:08	591	12.3	13.1	0.8	29	16.71
18-14-may	9:05:08	591	13.6	14.9	1.3	30	16.71
18-14-may	10:05:08	592	13.9	14.6	0.7	30	16.71
18-14-may	11:05:08	592	14.9	15.4	0.4	30	16.71
18-14-may	12:05:08	591	16.3	17.0	0.7	30	16.70
18-14-may	13:05:08	591	17.8	19.0	1.2	31	16.71
18-14-may	14:05:08	591	18.3	20.1	1.8	31	16.72
18-14-may	15:05:08	590	17.6	18.9	1.3	31	16.70
18-14-may	16:05:08	590	17.5	18.6	1.0	31	16.71
18-14-may	17:05:08	590	17.3	18.4	1.1	31	16.71
18-14-may	18:05:08	590	16.4	16.9	0.5	30	16.70
18-14-may	19:05:08	590	12.0	12.9	0.9	30	16.70
18-14-may	20:05:08	591	8.0	8.3	0.3	30	16.70
18-14-may	21:05:08	591	11.3	8.8	-2.5	30	16.71
18-14-may	22:05:08	591	10.4	8.9	-1.5	30	16.71
18-14-may	23:05:08	591	9.3	8.0	-1.3	30	16.70

	BGI PQ200 Air Sampling System Downloaded 2018 22 may 12:17:03								
Job D	Version Serial No Pump Time	964 1382:29	C.JOB	=	Job Coo Site Nam Station Coo Operator User	ne: de: rs: r1:			
	Max Min 592 588 12 3.9	9 590 r 9 7 16.71 L 0.17 9	Lpm % °C	Start:	User Information:  Date dd-mmm 18-20-may 18-21-may 6:58	Time hh:mm:ss 0:00:08 0:00:05	Mass Concer Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol:	ntration Data: 19 mg mg 0.000 6.994 m/3	
	Notes 1: Notes 2:							— та	
12 10 8 6 4 2 5 4 - 2 1 - 0 - 1 2 - 3 - 4	O Overhead TA, 'C		2		3 Elapsed Time, Hrs	4 5	6	7	
-5 -	0 1		2		3 Elapsed Time, Hrs	4 5	6	7	
150 120 90 60 30					3				
	0	1	2		3 Elapsed Time, Hrs	4	5 6	7	

18-20-ma	ay 0:05:08	591	9.1	8.1	-1.0	30	16.71
18-20-ma	ay 1:05:08	591	7.4	6.4	-1.1	30	16.72
18-20-ma	2:05:08	591	6.6	5.2	-1.4	30	16.71
18-20-ma	ay 3:05:08	591	6.3	4.7	-1.6	30	16.71
18-20-ma	4:05:08	591	5.7	4.2	-1.4	30	16.72
18-20-ma	5:05:08	591	4.9	3.7	-1.2	30	16.71
18-20-ma	6:05:08	591	8.9	6.9	-2.0	30	16.71

BGI PQ200 Air Sampling System Downloaded 2018 29 may 11:03:17								
Job Details: Job Name: 18May29C.JOB Version: 5.62 Serial No: 964 Pump Time: 1388:30			ame: ode: itors: ser1:					
Flags:   Units   BP   592   590   591   mmHg   °C   Lpm           16.7   Lpm         QCV	Start:	Date dd-mmm 18-29-may	Time hh:mm: 10:56	:ss ::00	Mass Concen Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol:  Mass Conc:	mg mg 0.000 mg 6.025 m^3		
Notes 1: Notes 2:					Mass Conc:	O[µg/m3		
Overheat, TF-						_		

1.2.2.2							
18-29-may	11:02:49	590	9.3	7.3	-2.0	30	16.47

BGI PQ200 Air Sar	nplir	ng System	Downloaded	2018 04 jun 15:17:2	24
Job Details: Job Name: 18Jun04C.JOB Version: 5.62 Serial No: 964 Pump Time: 1412:29 Flags:		Job Code: Site Name: Station Code: Operators: User1: User2:			
Max         Min         Avg         Units           BP         595         588         592         mmHg           TA         25.5         3.7         15.9         °C         Lpm           QCV         0.56         %           Max overheat occured 03-jun 12:49:25         3.1         °C           Notes 1:         Notes 1:         Notes         Notes	Start:	Date dd-mmm 18-01-jun 18-02-jun	Time hh:mm:ss 0:00:08 0:00:05		mg mg .000 mg 4.04 m^3
Notes 2:  Temps, 'C  30					— та тғ
25 20 15 10 5	لنمنتنند.	ېښتنت <b>ن</b> نتن کېښتر کې			
0 5	10	) Elapsed Time, Hrs	15	20	25
Overheat, TF- TA, 'C  4 3 2 1 0 -1 -2 -3 -4 -5 0 5	10	Elapsed Time, Hrs	15	20	25
SP, cmH20  120  90  60  30  0  5		10 Elapsed Time, Hrs	15	20	25

0:05:08	590	8.7	8.8	0.1	26	16.72
1:05:08	590	6.9	6.5	-0.5	26	16.71
2:05:08	590	6.5	5.4	-1.1	26	16.71
3:05:08	591	5.8	4.8	-1.0	27	16.71
4:05:08	591	5.3	4.2	-1.2	27	16.72
5:05:08	591	5.2	3.8	-1.4	27	16.71
6:05:08	592	10.8	8.3	-2.6	27	16.71
7:05:08	592	14.8	14.1	-0.7	29	16.71
8:05:08	593	16.2	16.9	0.7	29	16.71
9:05:08	593	17.4	18.8	1.4	30	16.71
10:05:08	593	19.2	20.6	1.4	30	16.71
11:05:08	593	20.7	21.9	1.1	31	16.71
12:05:08	593	22.1	23.0	1.0	31	16.71
13:05:08	593	23.2	24.2	1.1	31	16.71
14:05:08	593	23.7	25.3	1.6	32	16.71
15:05:08	593	24.2	25.7	1.6	31	16.71
16:05:08	593	24.3	25.9	1.6	32	16.71
17:05:08	593	24.0	25.2	1.2	31	16.70
18:05:08	593	22.9	23.9	1.0	31	16.70
19:05:08	594	19.8	20.0	0.2	31	16.71
20:05:08	594	17.9	17.0	-0.9	31	16.71
21:05:08	595	15.7	14.9	-0.8	31	16.71
22:05:08	595	13.2	12.3	-1.0	30	16.71
23:05:08	595	13.1	11.3	-1.7	30	16.71
	1:05:08 2:05:08 3:05:08 4:05:08 5:05:08 6:05:08 7:05:08 8:05:08 9:05:08 10:05:08 11:05:08 12:05:08 13:05:08 15:05:08 16:05:08 17:05:08 17:05:08 19:05:08 20:05:08 20:05:08	1:05:08     590       2:05:08     590       3:05:08     591       4:05:08     591       5:05:08     591       6:05:08     592       7:05:08     592       8:05:08     593       9:05:08     593       10:05:08     593       11:05:08     593       12:05:08     593       13:05:08     593       14:05:08     593       15:05:08     593       16:05:08     593       17:05:08     593       17:05:08     593       19:05:08     593       19:05:08     594       20:05:08     594       21:05:08     595       22:05:08     595	1:05:08       590       6.9         2:05:08       590       6.5         3:05:08       591       5.8         4:05:08       591       5.3         5:05:08       591       5.2         6:05:08       592       10.8         7:05:08       592       14.8         8:05:08       593       16.2         9:05:08       593       17.4         10:05:08       593       19.2         11:05:08       593       20.7         12:05:08       593       22.1         13:05:08       593       23.2         14:05:08       593       23.2         15:05:08       593       24.2         16:05:08       593       24.2         16:05:08       593       24.3         17:05:08       593       24.0         18:05:08       593       22.9         19:05:08       594       19.8         20:05:08       595       15.7         22:05:08       595       13.2	1:05:08       590       6.9       6.5         2:05:08       590       6.5       5.4         3:05:08       591       5.8       4.8         4:05:08       591       5.3       4.2         5:05:08       591       5.2       3.8         6:05:08       592       10.8       8.3         7:05:08       592       14.8       14.1         8:05:08       593       16.2       16.9         9:05:08       593       17.4       18.8         10:05:08       593       17.4       18.8         10:05:08       593       19.2       20.6         11:05:08       593       20.7       21.9         12:05:08       593       22.1       23.0         13:05:08       593       23.2       24.2         14:05:08       593       23.2       24.2         14:05:08       593       24.2       25.7         16:05:08       593       24.2       25.7         16:05:08       593       24.0       25.2         18:05:08       593       24.0       25.2         18:05:08       593       24.0       25.2	1:05:08       590       6.9       6.5       -0.5         2:05:08       590       6.5       5.4       -1.1         3:05:08       591       5.8       4.8       -1.0         4:05:08       591       5.3       4.2       -1.2         5:05:08       591       5.2       3.8       -1.4         6:05:08       592       10.8       8.3       -2.6         7:05:08       592       14.8       14.1       -0.7         8:05:08       593       16.2       16.9       0.7         9:05:08       593       17.4       18.8       1.4         10:05:08       593       19.2       20.6       1.4         11:05:08       593       20.7       21.9       1.1         12:05:08       593       22.1       23.0       1.0         13:05:08       593       23.2       24.2       1.1         14:05:08       593       23.7       25.3       1.6         15:05:08       593       24.2       25.7       1.6         16:05:08       593       24.3       25.9       1.6         17:05:08       593       24.0       25.2       1.2	1:05:08       590       6.9       6.5       -0.5       26         2:05:08       590       6.5       5.4       -1.1       26         3:05:08       591       5.8       4.8       -1.0       27         4:05:08       591       5.3       4.2       -1.2       27         5:05:08       591       5.2       3.8       -1.4       27         6:05:08       592       10.8       8.3       -2.6       27         7:05:08       592       14.8       14.1       -0.7       29         8:05:08       593       16.2       16.9       0.7       29         9:05:08       593       17.4       18.8       1.4       30         10:05:08       593       19.2       20.6       1.4       30         11:05:08       593       20.7       21.9       1.1       31         12:05:08       593       22.1       23.0       1.0       31         13:05:08       593       23.2       24.2       1.1       31         14:05:08       593       23.7       25.3       1.6       32         15:05:08       593       24.2       25.7 <td< td=""></td<>

BGI PQ200 Air Sar	pling Syst	em Downloaded	2018 08 jun 12	2:09:24
Job Details: Job Name: 18Jun08C.JOB Version: 5.62 Serial No: 964 Pump Time: 1436:28	Site N Station ( Opera U	Code: ators: lser1:		
Second Reserved Flags:   Hags:   Wax   Min   Avg   Units   Second Flags:   Units   Second Flags:   Units   Second Flags:   Second Flags:   Second Flags:   Units   Second Flags:   Second Flags:   Units   Units   Second Flags:   Units   Second Flags:   Units   Units   Units   Second Flags:   Units   U	Date dd-mmm Start: 18-07-jun Stop: 18-08-jun ET: 23:59	Time hh:mm:ss 0:00:08 0:00:04	Mass Concen Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol:  Mass Conc:	tration Data:  13  mg  mg  0.000 mg  24.042 m^3
Notes 2: Temps, 'C				—— ТА TF
30 25 20 15 10 5 0	10 Elapsed Time,	15	20	25
0 -1 -2 -3 -4 -5 0 5 SP, cmH20	10 Elapsed Time, I	15	20	25
0 0 5	10 Elapsed Time, F	15 Irs	20	25

18-07-jun	0:05:08	591	10.4	8.9	-1.5	24	16.71
18-07-jun	1:05:08	591	9.4	8.1	-1.3	25	16.71
18-07-jun	2:05:08	591	8.7	7.4	-1.4	25	16.72
18-07-jun	3:05:08	591	8.4	6.9	-1.5	24	16.71
18-07-jun	4:05:08	592	8.1	6.5	-1.6	25	16.71
18-07-jun	5:05:08	592	8.2	6.7	-1.5	25	16.71
18-07-jun	6:05:08	592	14.2	11.4	-2.7	26	16.70
18-07-jun	7:05:08	592	18.4	17.5	-0.9	26	16.70
18-07-jun	8:05:08	593	20.1	20.4	0.2	27	16.71
18-07-jun	9:05:08	593	21.2	21.9	0.7	27	16.71
18-07-jun	10:05:08	593	22.7	23.4	0.6	28	16.71
18-07-jun	11:05:08	593	23.4	24.3	0.9	28	16.70
18-07-jun	12:05:08	593	24.8	25.3	0.5	28	16.71
18-07-jun	13:05:08	592	25.9	26.7	0.7	28	16.71
18-07-jun	14:05:08	592	26.5	27.6	1.0	28	16.72
18-07-jun	15:05:08	592	26.6	28.0	1.4	28	16.71
18-07-jun	16:05:08	592	26.4	27.7	1.3	28	16.71
18-07-jun	17:05:08	592	25.8	26.7	0.9	28	16.70
18-07-jun	18:05:08	592	23.0	23.2	0.2	28	16.71
18-07-jun	19:05:08	592	20.3	20.1	-0.1	28	16.71
18-07-jun	20:05:08	593	15.1	15.8	0.7	28	16.71
18-07-jun	21:05:08	593	13.1	12.8	-0.3	27	16.71
18-07-jun	22:05:08	593	11.7	10.9	-0.8	27	16.71
18-07-jun	23:05:08	593	10.5	9.6	-1.0	27	16.71

BGI PQ200 Air Sai	mplir	ng Syste	m Downloaded	2018 14 jun 14	:19:52
Job Details: Job Name: 18Jun14C.JOB Version: 5.62 Serial No: 964 Pump Time: 1460:27		Station Cod Operato Use	ne: 964C de: ors: KN or1:		
Flags:	Start:	Date dd-mmm 18-13-jun 18-14-jun 23:59	Time hh:mm:ss 0:00:08 0:00:04	Mass Concent Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol:  Mass Conc:	mg 0.000 mg 24.035 m^3
	نستنگر م	THERE	in the same of the		••••
Overheat, TF-					

18-13-jun	0:05:08	593	12.6	11.3	-1.4	22	16.71
18-13-jun	1:05:08	593	11.9	10.5	-1.5	22	16.71
18-13-jun	2:05:08	593	10.5	9.3	-1.2	22	16.70
18-13-jun	3:05:08	593	9.6	8.2	-1.4	22	16.72
18-13-jun	4:05:08	593	8.9	7.6	-1.3	21	16.70
18-13-jun	5:05:08	593	9.6	7.8	-1.9	21	16.70
18-13-jun	6:05:08	593	16.5	13.2	-3.3	22	16.71
18-13-jun	7:05:08	593	22.0	20.1	-1.9	23	16.70
18-13-jun	8:05:08	593	25.6	25.5	-0.2	24	16.71
18-13-jun	9:05:08	593	27.5	28.3	0.8	25	16.72
18-13-jun	10:05:08	593	28.8	29.3	0.5	25	16.70
18-13-jun	11:05:08	593	29.4	29.8	0.5	25	16.70
18-13-jun	12:05:08	593	29.7	30.4	0.7	25	16.70
18-13-jun	13:05:08	592	30.2	31.2	1.0	26	16.70
18-13-jun	14:05:08	592	30.3	31.5	1.2	26	16.71
18-13-jun	15:05:08	592	30.0	31.3	1.2	26	16.72
18-13-jun	16:05:08	591	30.2	31.6	1.4	26	16.72
18-13-jun	17:05:08	591	28.8	30.0	1.2	26	16.70
18-13-jun	18:05:08	591	26.5	26.9	0.3	25	16.71
18-13-jun	19:05:08	591	23.2	23.8	0.6	25	16.70
18-13-jun	20:05:08	592	16.8	17.4	0.6	25	16.71
18-13-jun	21:05:08	592	14.8	14.3	-0.5	25	16.71
18-13-jun	22:05:08	592	13.7	12.6	-1.1	24	16.71
18-13-jun	23:05:08	592	12.8	11.6	-1.3	24	16.71

BGI PQ200 Air Sar	mpling System Downloaded 2018 22 jun 09:42:18	
Job Details: Job Name: 18Jun22C.JOB Version: 5.62 Serial No: 964 Pump Time: 1484:26	Station Code: Operators: KN User1:	
Flags:    Max   Min   Avg   Units	Date dd-mmm         Time hh:mm:ss         Final Wt: Initial Wt: Initial Wt: Delta Wt:	Data: 6 mg mg 0 mg 1 m^3
Temps, 'C  30  25  20  15  0  0  5	10 15 20 Elapsed Time, Hrs	TA TF
Muhamm	J. M.	

18-19-jun         0:05:08         593         9.0         7.3         -1.7         32         16.71           18-19-jun         1:05:08         592         6.0         5.5         -0.5         33         16.70           18-19-jun         2:05:08         593         6.6         5.0         -1.6         32         16.71           18-19-jun         3:05:08         593         5.6         4.4         -1.2         33         16.71           18-19-jun         4:05:08         593         4.3         3.2         -1.1         33         16.71           18-19-jun         5:05:08         593         5.7         3.7         -1.9         33         16.70           18-19-jun         6:05:08         593         12.3         9.6         -2.7         34         16.71           18-19-jun         8:05:08         594         18.6         16.8         -1.8         35         16.72           18-19-jun         8:05:08         594         20.5         21.0         0.4         37         16.71           18-19-jun         9:05:08         594         23.4         24.7         1.2         38         16.71           18-19-jun         1								
18-19-jun         2:05:08         593         6.6         5.0         -1.6         32         16.71           18-19-jun         3:05:08         593         5.6         4.4         -1.2         33         16.71           18-19-jun         4:05:08         593         4.3         3.2         -1.1         33         16.71           18-19-jun         5:05:08         593         5.7         3.7         -1.9         33         16.70           18-19-jun         6:05:08         593         12.3         9.6         -2.7         34         16.71           18-19-jun         7:05:08         594         18.6         16.8         -1.8         35         16.72           18-19-jun         8:05:08         594         20.5         21.0         0.4         37         16.71           18-19-jun         9:05:08         594         21.9         23.3         1.4         37         16.71           18-19-jun         10:05:08         594         23.4         24.7         1.2         38         16.71           18-19-jun         12:05:08         593         25.2         26.2         1.0         38         16.71           18-19-jun         <	18-19-j	un 0:05:08	593	9.0	7.3	-1.7	32	16.71
18-19-jun         3:05:08         593         5.6         4.4         -1.2         33         16.71           18-19-jun         4:05:08         593         4.3         3.2         -1.1         33         16.71           18-19-jun         5:05:08         593         5.7         3.7         -1.9         33         16.70           18-19-jun         6:05:08         593         12.3         9.6         -2.7         34         16.71           18-19-jun         7:05:08         594         18.6         16.8         -1.8         35         16.72           18-19-jun         8:05:08         594         20.5         21.0         0.4         37         16.71           18-19-jun         9:05:08         594         20.5         21.0         0.4         37         16.71           18-19-jun         10:05:08         594         21.9         23.3         1.4         37         16.71           18-19-jun         10:05:08         594         23.4         24.7         1.2         38         16.71           18-19-jun         12:05:08         593         25.2         26.2         1.0         38         16.71           18-19-jun	18-19-j	un 1:05:08	592	6.0	5.5	-0.5	33	16.70
18-19-jun       4:05:08       593       4.3       3.2       -1.1       33       16.71         18-19-jun       5:05:08       593       5.7       3.7       -1.9       33       16.70         18-19-jun       6:05:08       593       12.3       9.6       -2.7       34       16.71         18-19-jun       7:05:08       594       18.6       16.8       -1.8       35       16.72         18-19-jun       8:05:08       594       20.5       21.0       0.4       37       16.71         18-19-jun       9:05:08       594       20.5       21.0       0.4       37       16.71         18-19-jun       10:05:08       594       21.9       23.3       1.4       37       16.71         18-19-jun       10:05:08       594       23.4       24.7       1.2       38       16.71         18-19-jun       11:05:08       593       24.5       25.5       1.1       38       16.71         18-19-jun       13:05:08       593       25.2       26.2       1.0       38       16.71         18-19-jun       14:05:08       593       26.5       27.8       1.3       38       16.71 <t< td=""><td>18-19-j</td><td>un 2:05:08</td><td>593</td><td>6.6</td><td>5.0</td><td>-1.6</td><td>32</td><td>16.71</td></t<>	18-19-j	un 2:05:08	593	6.6	5.0	-1.6	32	16.71
18-19-jun         5:05:08         593         5.7         3.7         -1.9         33         16.70           18-19-jun         6:05:08         593         12.3         9.6         -2.7         34         16.71           18-19-jun         7:05:08         594         20.5         21.0         0.4         37         16.71           18-19-jun         9:05:08         594         20.5         21.0         0.4         37         16.71           18-19-jun         9:05:08         594         21.9         23.3         1.4         37         16.71           18-19-jun         10:05:08         594         23.4         24.7         1.2         38         16.71           18-19-jun         11:05:08         593         24.5         25.5         1.1         38         16.71           18-19-jun         12:05:08         593         25.2         26.2         1.0         38         16.71           18-19-jun         13:05:08         593         25.9         27.0         1.1         38         16.71           18-19-jun         14:05:08         593         26.5         27.8         1.3         38         16.71           18-19-jun	18-19-j	un 3:05:08	593	5.6	4.4	-1.2	33	16.71
18-19-jun         6:05:08         593         12.3         9.6         -2.7         34         16.71           18-19-jun         7:05:08         594         18.6         16.8         -1.8         35         16.72           18-19-jun         8:05:08         594         20.5         21.0         0.4         37         16.71           18-19-jun         9:05:08         594         21.9         23.3         1.4         37         16.71           18-19-jun         10:05:08         594         23.4         24.7         1.2         38         16.71           18-19-jun         11:05:08         593         24.5         25.5         1.1         38         16.71           18-19-jun         12:05:08         593         25.2         26.2         1.0         38         16.71           18-19-jun         13:05:08         593         25.9         27.0         1.1         38         16.71           18-19-jun         14:05:08         593         26.5         27.8         1.3         38         16.71           18-19-jun         15:05:08         593         26.6         28.1         1.5         38         16.71           18-19-jun	18-19-j	un 4:05:08	593	4.3	3.2	-1.1	33	16.71
18-19-jun       7:05:08       594       18.6       16.8       -1.8       35       16.72         18-19-jun       8:05:08       594       20.5       21.0       0.4       37       16.71         18-19-jun       9:05:08       594       21.9       23.3       1.4       37       16.71         18-19-jun       10:05:08       594       23.4       24.7       1.2       38       16.71         18-19-jun       11:05:08       593       24.5       25.5       1.1       38       16.71         18-19-jun       12:05:08       593       25.2       26.2       1.0       38       16.71         18-19-jun       13:05:08       593       25.9       27.0       1.1       38       16.71         18-19-jun       14:05:08       593       26.5       27.8       1.3       38       16.71         18-19-jun       15:05:08       593       26.6       28.1       1.5       38       16.71         18-19-jun       16:05:08       593       26.4       27.8       1.4       38       16.71         18-19-jun       17:05:08       593       25.9       27.3       1.4       39       16.71	18-19-j	un 5:05:08	593	5.7	3.7	-1.9	33	16.70
18-19-jun       8:05:08       594       20.5       21.0       0.4       37       16.71         18-19-jun       9:05:08       594       21.9       23.3       1.4       37       16.71         18-19-jun       10:05:08       594       23.4       24.7       1.2       38       16.71         18-19-jun       11:05:08       593       24.5       25.5       1.1       38       16.71         18-19-jun       12:05:08       593       25.2       26.2       1.0       38       16.71         18-19-jun       13:05:08       593       25.9       27.0       1.1       38       16.71         18-19-jun       14:05:08       593       26.5       27.8       1.3       38       16.71         18-19-jun       15:05:08       593       26.6       28.1       1.5       38       16.72         18-19-jun       16:05:08       593       26.4       27.8       1.4       38       16.71         18-19-jun       17:05:08       593       25.9       27.3       1.4       39       16.71         18-19-jun       18:05:08       593       24.7       25.6       1.0       39       16.71	18-19-j	un 6:05:08	593	12.3	9.6	-2.7	34	16.71
18-19-jun       9:05:08       594       21.9       23.3       1.4       37       16.71         18-19-jun       10:05:08       594       23.4       24.7       1.2       38       16.71         18-19-jun       11:05:08       593       24.5       25.5       1.1       38       16.71         18-19-jun       12:05:08       593       25.2       26.2       1.0       38       16.71         18-19-jun       13:05:08       593       25.9       27.0       1.1       38       16.71         18-19-jun       14:05:08       593       26.5       27.8       1.3       38       16.71         18-19-jun       15:05:08       593       26.6       28.1       1.5       38       16.72         18-19-jun       16:05:08       593       26.4       27.8       1.4       38       16.71         18-19-jun       17:05:08       593       25.9       27.3       1.4       39       16.71         18-19-jun       17:05:08       593       24.7       25.6       1.0       39       16.71         18-19-jun       19:05:08       593       21.8       22.2       0.4       38       16.71	18-19-j	un 7:05:08	594	18.6	16.8	-1.8	35	16.72
18-19-jun       10:05:08       594       23.4       24.7       1.2       38       16.71         18-19-jun       11:05:08       593       24.5       25.5       1.1       38       16.71         18-19-jun       12:05:08       593       25.2       26.2       1.0       38       16.71         18-19-jun       13:05:08       593       25.9       27.0       1.1       38       16.71         18-19-jun       14:05:08       593       26.5       27.8       1.3       38       16.71         18-19-jun       15:05:08       593       26.6       28.1       1.5       38       16.72         18-19-jun       16:05:08       593       26.4       27.8       1.4       38       16.71         18-19-jun       17:05:08       593       25.9       27.3       1.4       39       16.71         18-19-jun       18:05:08       593       24.7       25.6       1.0       39       16.71         18-19-jun       19:05:08       593       21.8       22.2       0.4       38       16.71         18-19-jun       20:05:08       594       16.9       17.4       0.5       38       16.71	18-19-j	un 8:05:08	594	20.5	21.0	0.4	37	16.71
18-19-jun     11:05:08     593     24.5     25.5     1.1     38     16.71       18-19-jun     12:05:08     593     25.2     26.2     1.0     38     16.71       18-19-jun     13:05:08     593     25.9     27.0     1.1     38     16.71       18-19-jun     14:05:08     593     26.5     27.8     1.3     38     16.71       18-19-jun     15:05:08     593     26.6     28.1     1.5     38     16.72       18-19-jun     16:05:08     593     26.4     27.8     1.4     38     16.71       18-19-jun     17:05:08     593     25.9     27.3     1.4     39     16.71       18-19-jun     18:05:08     593     24.7     25.6     1.0     39     16.71       18-19-jun     19:05:08     593     21.8     22.2     0.4     38     16.71       18-19-jun     20:05:08     594     16.9     17.4     0.5     38     16.71       18-19-jun     21:05:08     594     14.0     13.5     -0.4     37     16.71       18-19-jun     22:05:08     594     13.1     11.8     -1.3     37     16.70	18-19-j	un 9:05:08	594	21.9	23.3	1.4	37	16.71
18-19-jun     12:05:08     593     25.2     26.2     1.0     38     16.71       18-19-jun     13:05:08     593     25.9     27.0     1.1     38     16.71       18-19-jun     14:05:08     593     26.5     27.8     1.3     38     16.71       18-19-jun     15:05:08     593     26.6     28.1     1.5     38     16.72       18-19-jun     16:05:08     593     26.4     27.8     1.4     38     16.71       18-19-jun     17:05:08     593     25.9     27.3     1.4     39     16.71       18-19-jun     18:05:08     593     24.7     25.6     1.0     39     16.71       18-19-jun     19:05:08     593     21.8     22.2     0.4     38     16.71       18-19-jun     20:05:08     594     16.9     17.4     0.5     38     16.71       18-19-jun     21:05:08     594     14.0     13.5     -0.4     37     16.71       18-19-jun     22:05:08     594     13.1     11.8     -1.3     37     16.70	18-19-j	un 10:05:08	594	23.4	24.7	1.2	38	16.71
18-19-jun     13:05:08     593     25.9     27.0     1.1     38     16.71       18-19-jun     14:05:08     593     26.5     27.8     1.3     38     16.71       18-19-jun     15:05:08     593     26.6     28.1     1.5     38     16.72       18-19-jun     16:05:08     593     26.4     27.8     1.4     38     16.71       18-19-jun     17:05:08     593     25.9     27.3     1.4     39     16.71       18-19-jun     18:05:08     593     24.7     25.6     1.0     39     16.71       18-19-jun     19:05:08     593     21.8     22.2     0.4     38     16.71       18-19-jun     20:05:08     594     16.9     17.4     0.5     38     16.71       18-19-jun     21:05:08     594     14.0     13.5     -0.4     37     16.71       18-19-jun     22:05:08     594     13.1     11.8     -1.3     37     16.70	18-19-j	un 11:05:08	593	24.5	25.5	1.1	38	16.71
18-19-jun     14:05:08     593     26.5     27.8     1.3     38     16.71       18-19-jun     15:05:08     593     26.6     28.1     1.5     38     16.72       18-19-jun     16:05:08     593     26.4     27.8     1.4     38     16.71       18-19-jun     17:05:08     593     25.9     27.3     1.4     39     16.71       18-19-jun     18:05:08     593     24.7     25.6     1.0     39     16.71       18-19-jun     19:05:08     593     21.8     22.2     0.4     38     16.71       18-19-jun     20:05:08     594     16.9     17.4     0.5     38     16.71       18-19-jun     21:05:08     594     14.0     13.5     -0.4     37     16.71       18-19-jun     22:05:08     594     13.1     11.8     -1.3     37     16.70	18-19-j	un 12:05:08	593	25.2	26.2	1.0	38	16.71
18-19-jun     15:05:08     593     26.6     28.1     1.5     38     16.72       18-19-jun     16:05:08     593     26.4     27.8     1.4     38     16.71       18-19-jun     17:05:08     593     25.9     27.3     1.4     39     16.71       18-19-jun     18:05:08     593     24.7     25.6     1.0     39     16.71       18-19-jun     19:05:08     593     21.8     22.2     0.4     38     16.71       18-19-jun     20:05:08     594     16.9     17.4     0.5     38     16.71       18-19-jun     21:05:08     594     14.0     13.5     -0.4     37     16.71       18-19-jun     22:05:08     594     13.1     11.8     -1.3     37     16.70	18-19-j	un 13:05:08	593	25.9	27.0	1.1	38	16.71
18-19-jun     16:05:08     593     26.4     27.8     1.4     38     16.71       18-19-jun     17:05:08     593     25.9     27.3     1.4     39     16.71       18-19-jun     18:05:08     593     24.7     25.6     1.0     39     16.71       18-19-jun     19:05:08     593     21.8     22.2     0.4     38     16.71       18-19-jun     20:05:08     594     16.9     17.4     0.5     38     16.71       18-19-jun     21:05:08     594     14.0     13.5     -0.4     37     16.71       18-19-jun     22:05:08     594     13.1     11.8     -1.3     37     16.70	18-19-j	un 14:05:08	593	26.5	27.8	1.3	38	16.71
18-19-jun     17:05:08     593     25.9     27.3     1.4     39     16.71       18-19-jun     18:05:08     593     24.7     25.6     1.0     39     16.71       18-19-jun     19:05:08     593     21.8     22.2     0.4     38     16.71       18-19-jun     20:05:08     594     16.9     17.4     0.5     38     16.71       18-19-jun     21:05:08     594     14.0     13.5     -0.4     37     16.71       18-19-jun     22:05:08     594     13.1     11.8     -1.3     37     16.70	18-19-j	un 15:05:08	593	26.6	28.1	1.5	38	16.72
18-19-jun     18:05:08     593     24.7     25.6     1.0     39     16.71       18-19-jun     19:05:08     593     21.8     22.2     0.4     38     16.71       18-19-jun     20:05:08     594     16.9     17.4     0.5     38     16.71       18-19-jun     21:05:08     594     14.0     13.5     -0.4     37     16.71       18-19-jun     22:05:08     594     13.1     11.8     -1.3     37     16.70	18-19-j	un 16:05:08	593	26.4	27.8	1.4	38	16.71
18-19-jun     19:05:08     593     21.8     22.2     0.4     38     16.71       18-19-jun     20:05:08     594     16.9     17.4     0.5     38     16.71       18-19-jun     21:05:08     594     14.0     13.5     -0.4     37     16.71       18-19-jun     22:05:08     594     13.1     11.8     -1.3     37     16.70	18-19-j	un 17:05:08	593	25.9	27.3	1.4	39	16.71
18-19-jun     20:05:08     594     16.9     17.4     0.5     38     16.71       18-19-jun     21:05:08     594     14.0     13.5     -0.4     37     16.71       18-19-jun     22:05:08     594     13.1     11.8     -1.3     37     16.70	18-19-j	un 18:05:08	593	24.7	25.6	1.0	39	16.71
18-19-jun     21:05:08     594     14.0     13.5     -0.4     37     16.71       18-19-jun     22:05:08     594     13.1     11.8     -1.3     37     16.70	18-19-j	un 19:05:08	593	21.8	22.2	0.4	38	16.71
18-19-jun 22:05:08 594 13.1 11.8 -1.3 37 16.70	18-19-j	un 20:05:08	594	16.9	17.4	0.5	38	16.71
	18-19-j	un 21:05:08	594	14.0	13.5	-0.4	37	16.71
18-19-jun 23:05:08 594 11.8 10.5 -1.3 37 16.71	18-19-jı	un 22:05:08	594	13.1	11.8	-1.3	37	16.70
	18-19-jı	un 23:05:08	594	11.8	10.5	-1.3	37	16.71

# **Compliance Monitor 2366D**

#### PM₁₀ Sampler Summary

#### April 1, 2018 - June 30, 2018

**Network: Alton Coal Development** 

Site: Coal Hollow

Sampler ID: Coal Hollow-D AQS ID:

Sampler Type: BGI FRM Single

	Filter	Concentration (µg/m3)	Concentration (µg/m3)	Sample Period	Sample Volume	Std Volume	Tare	Mass Gross	Net		
Date	ID	LTP	STP	(hr:min)	(m3)	(m3)	(mg)	(mg)	(mg)	Flag	Comments
04/02/18	P2946891	47.9	58.8	24:00	24.0	19.6	379.145	380.298	1.153	HT	
04/08/18	P2947091	7.2	8.8	23:59	24.0	19.7	371.451	371.626	0.175	HT	
04/14/18	P2947096	7.1	8.6	23:59	24.0	20.0	371.289	371.462	0.173		
04/20/18	P2947101	22.1	26.4	23:59	24.0	20.1	377.581	378.113	0.532		
04/26/18	P2947326	57.0	70.8	23:59	24.0	19.4	391.077	392.449	1.372		
05/02/18	P2947332	6.9	8.2	23:59	24.0	20.1	373.581	373.747	0.166	HT	
05/08/18	P2947560	38.1	47.8	23:59	24.0	19.2	378.016	378.932	0.916		
05/14/18	P2947566	36.7	45.2	23:59	24.0	19.5		369.169	0.884		
05/20/18	P2947772	6.9	8.6	23:59	24.0	19.3		374.324	0.167		
05/26/18	P2947777	34.4	42.6	23:59	24.0	19.4		382.659	0.828		
06/01/18	P2947782	38.6	48.2	23:59	24.0	19.2	371.598		0.929		
06/07/18	P2948035	47.7	60.0	23:59	24.0	19.1		365.845	1.148		
06/13/18	P2948040	322.5	410.1	23:59	24.0	18.9		373.192	7.750		Loose particles
06/19/18	P2948233	135.6	170.3	23:59	24.0	19.1		365.424	3.261		Loose particles
06/25/18	P2948239	Invalid - AG	Invalid - AG	63:11	63.3	49.6	370.842	379.812	8.970	SP,CI	Loose particles
06/04/18	P2948034		Field Bla	nk			365.733	365.758	0.025		
	# Valid	Recovery	Average	St. Dev.	Max	Min					
	14	93%	72.5	105.7	410.1	8.2					

BGI PQ200 Air Sar	mpling System Downloaded	2018 05 apr 11:00:18
Job Details: Job Name: 18Apr05D.JOB Version: 5.62 Serial No: 2366 Pump Time: 3228:11 Flags:	User2: ÿÿÿÿÿÿÿÿÿÿÿÿ	ÿÿyÿyÿÿÿÿÿÿÿÿÿ <u>y</u> yvvyyyyyyyyÿÿ
Max Min Avg Units BP 586 582 584 mmHg TA 18.2 -1.7 8.1 °C Q 16.71 Lpm  QCV 0.54 %	Date         Time           dd-mmm         hh:mm:ss           Start:         18-02-apr         0:00:00	Mass Concentration Data:  Filter ID: 19  Final Wt: mg  Initial Wt: mg  Delta Wt: 0.000 mg  Total Vol: 24.042 m^3
QCV 0.54 %  Max overheat 4 °C	Stop: 18-03-apr 0:00:05  ET: 24:00:00	Mass Conc: 0 µg/m3
Notes 2: Temps, 'C		— та тғ
15	month of the same	
5		J. Janes
o www.		
-5 0 5	10 15 Elapsed Time, Hrs	20 25
Overheat, TF- TA, 'C  4 3 2 1 0 -1 -2 -3 -4 -5 0 5	10 Elapsed Time, Hrs	20 25
SP, cmH20  120  90  60  30  0  5	10 15 Elapsed Time, Hrs	20 25

0:05:00	586	1.4	0.2	-1.2	30	16.71
1:05:00	586	0.5	-0.5	-1.0	30	16.69
2:05:00	585	0.3	-1.1	-1.4	30	16.71
3:05:00	585	-0.5	-1.7	-1.2	30	16.71
4:05:00	585	-0.4	-1.7	-1.4	30	16.72
5:05:00	585	-1.0	-2.3	-1.3	30	16.71
6:05:00	585	1.1	-1.3	-2.4	30	16.71
7:05:00	584	8.2	5.3	-2.9	32	16.71
8:05:00	584	11.2	11.3	0.0	33	16.71
9:05:00	584	12.6	13.9	1.3	34	16.70
10:05:00	584	14.0	15.6	1.6	35	16.72
11:05:00	583	14.9	16.6	1.7	35	16.71
12:05:00	583	15.9	17.6	1.6	35	16.71
13:05:00	583	16.3	18.6	2.3	35	16.71
14:05:00	583	14.9	16.4	1.5	35	16.72
15:05:00	582	15.1	16.8	1.7	35	16.71
16:05:00	582	13.5	14.2	0.7	35	16.71
17:05:00	583	12.8	12.8	0.0	35	16.71
18:05:00	583	11.8	11.5	-0.3	35	16.71
19:05:00	583	9.7	8.8	-0.8	35	16.71
20:05:00	584	6.9	6.3	-0.7	35	16.70
21:05:00	584	7.9	7.4	-0.5	35	16.71
22:05:00	585	4.7	4.9	0.2	34	16.71
23:05:00	586	3.0	2.8	-0.3	34	16.72
	1:05:00 2:05:00 3:05:00 4:05:00 5:05:00 6:05:00 7:05:00 8:05:00 10:05:00 11:05:00 13:05:00 14:05:00 15:05:00 16:05:00 17:05:00 18:05:00 19:05:00 20:05:00 21:05:00	1:05:00       586         2:05:00       585         3:05:00       585         4:05:00       585         5:05:00       585         6:05:00       585         7:05:00       584         8:05:00       584         9:05:00       584         10:05:00       584         11:05:00       583         12:05:00       583         13:05:00       583         15:05:00       582         16:05:00       582         17:05:00       583         19:05:00       583         19:05:00       583         20:05:00       584         21:05:00       584         22:05:00       585	1:05:00       586       0.5         2:05:00       585       0.3         3:05:00       585       -0.5         4:05:00       585       -0.4         5:05:00       585       -1.0         6:05:00       585       1.1         7:05:00       584       8.2         8:05:00       584       11.2         9:05:00       584       12.6         10:05:00       584       14.0         11:05:00       583       14.9         12:05:00       583       15.9         13:05:00       583       16.3         14:05:00       583       14.9         15:05:00       582       15.1         16:05:00       582       15.1         16:05:00       582       13.5         17:05:00       583       12.8         18:05:00       583       11.8         19:05:00       583       9.7         20:05:00       584       6.9         21:05:00       585       4.7	1:05:00       586       0.5       -0.5         2:05:00       585       0.3       -1.1         3:05:00       585       -0.5       -1.7         4:05:00       585       -0.4       -1.7         5:05:00       585       -1.0       -2.3         6:05:00       585       1.1       -1.3         7:05:00       584       8.2       5.3         8:05:00       584       11.2       11.3         9:05:00       584       12.6       13.9         10:05:00       584       14.0       15.6         11:05:00       583       14.9       16.6         12:05:00       583       15.9       17.6         13:05:00       583       15.9       17.6         13:05:00       583       16.3       18.6         14:05:00       583       14.9       16.4         15:05:00       582       15.1       16.8         16:05:00       582       13.5       14.2         17:05:00       583       12.8       12.8         18:05:00       583       11.8       11.5         19:05:00       584       6.9       6.3	1:05:00       586       0.5       -0.5       -1.0         2:05:00       585       0.3       -1.1       -1.4         3:05:00       585       -0.5       -1.7       -1.2         4:05:00       585       -0.4       -1.7       -1.4         5:05:00       585       -1.0       -2.3       -1.3         6:05:00       585       1.1       -1.3       -2.4         7:05:00       584       8.2       5.3       -2.9         8:05:00       584       11.2       11.3       0.0         9:05:00       584       12.6       13.9       1.3         10:05:00       584       14.0       15.6       1.6         11:05:00       583       14.9       16.6       1.7         12:05:00       583       15.9       17.6       1.6         13:05:00       583       14.9       16.4       1.5         15:05:00       582       15.1       16.8       1.7         16:05:00       582       15.1       16.8       1.7         17:05:00       583       12.8       12.8       0.0         18:05:00       583       11.8       11.5       -0.	1:05:00         586         0.5         -0.5         -1.0         30           2:05:00         585         0.3         -1.1         -1.4         30           3:05:00         585         -0.5         -1.7         -1.2         30           4:05:00         585         -0.4         -1.7         -1.4         30           5:05:00         585         -1.0         -2.3         -1.3         30           6:05:00         585         1.1         -1.3         -2.4         30           7:05:00         584         8.2         5.3         -2.9         32           8:05:00         584         11.2         11.3         0.0         33           9:05:00         584         12.6         13.9         1.3         34           10:05:00         584         14.0         15.6         1.6         35           11:05:00         583         14.9         16.6         1.7         35           12:05:00         583         15.9         17.6         1.6         35           13:05:00         583         14.9         16.4         1.5         35           15:05:00         582         15.1 <t< td=""></t<>

BGI PQ200 Air Sar	nplir	ng System	Downloaded	2018 10 apr 11:	33:49
Job Details:         Job Name: 18Apr10D.JOB         Version: 5.62         Serial No: 2366         Pump Time: 3252:10         Flags:         Max Min Avg Units         BP       591       584       587       mmHg         TA       16.1       -0.5       7.7       °C         Q         16.7       Lpm		Job Code: Site Name: Station Code: Operators: User1: User2: Information:  Date dd-mmm 18-08-apr	<i>ÿ</i> ÿÿÿÿÿÿÿÿÿÿÿ	//////////////////////////////////////	ŸŸŸŸ
QCV 0.55 %		18-09-apr	0:00:05	Total Vol:	24.041 m^3
Max overheat 2.9 °C			-		
occured 08-apr 14:08:17	ET:	23:59	ome til reducitien var kennen Kallina om Lance och	Mass Conc:	0 µg/m3
Notes 1:					-
Notes 2:					
Temps, 'C					— TA
15		***************************************	M		
10	MAN	ww.		j.	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	•			Jun	
0				Jer's	\h_\\\
-5 0 5	10	)	15	20	25
		Elapsed Time, Hrs			

18-08-apr	0:05:08	585	8.7	7.6	-1.2	29	16.71
18-08-apr	1:05:08	585	5.4	5.1	-0.3	29	16.71
18-08-apr	2:05:08	585	4.1	3.1	-1.0	29	16.71
18-08-apr	3:05:08	585	4.1	2.2	-1.9	28	16.71
18-08-apr	4:05:08	586	1.7	1.0	-0.7	29	16.70
18-08-apr	5:05:08	586	0.4	-0.5	-0.9	28	16.71
18-08-apr	6:05:08	587	0.3	-0.6	-0.9	29	16.70
18-08-apr	7:05:08	587	4.1	2.4	-1.7	29	16.71
18-08-apr	8:05:08	587	9.5	8.6	-1.0	30	16.70
18-08-apr	9:05:08	587	10.2	11.5	1.3	31	16.71
18-08-apr	10:05:08	587	11.7	13.6	1.8	32	16.71
18-08-apr	11:05:08	588	12.7	14.7	2.0	32	16.71
18-08-apr	12:05:08	587	13.3	15.0	1.7	32	16.71
18-08-apr	13:05:08	588	14.8	16.4	1.6	32	16.71
18-08-apr	14:05:08	588	14.4	16.3	1.9	32	16.70
18-08-apr	15:05:08	588	14.6	16.5	1.9	32	16.71
18-08-apr	16:05:08	588	14.0	15.8	1.8	32	16.70
18-08-apr	17:05:08	588	13.3	14.6	1.3	32	16.71
18-08-apr	18:05:08	588	10.9	11.7	0.7	31	16.70
18-08-apr	19:05:08	589	5.7	6.1	0.4	30	16.71
18-08-apr	20:05:08	589	3.7	3.0	-0.7	30	16.71
18-08-apr	21:05:08	590	3.4	2.2	-1.2	30	16.70
18-08-apr	22:05:08	590	0.9	0.2	-0.6	30	16.71
18-08-apr	23:05:08	590	1.4	0.1	-1.3	30	16.71

BGI PQ200 Air Sar	nplir	ng System	Downloaded :	2018 16 apr 14	:27:46
Job Details: Job Name: 18Apr16D.JOB Version: 5.62 Serial No: 2366 Pump Time: 3276:09			ÿÿÿÿÿÿÿÿÿÿÿÿ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Flags:    Max   Min   Avg   Units	Start:	Date dd-mmm 18-14-apr 18-15-apr 23:59	Time hh:mm:ss 0:00:08 0:00:04	Mass Concent Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol: Mass Conc:	
Notes 2: Temps, 'C					— ТА
20					TF
15		~~~~	Manny	:.	
10		Jan Marie	-	Li.	
5	سنتهر			Every 1	
0				Princepair / W	<b>&gt;</b> ->
-5 0 5	10	) Elapsed Time, Hrs	15	20	25
Overheat, TF- TA, 'C					
	10	Elapsed Time, Hrs	15	20	25
SP, cmH20		T			
120					
90					
60					
30					
0 5		10 Elapsed Time, Hrs	15	20	25

18-14-apr	0:05:08	593	-0.4	-1.1	-0.7	25	16.71
18-14-apr	1:05:08	593	-0.7	-1.6	-0.9	26	16.71
18-14-apr	2:05:08	594	-1.0	-2.1	-1.1	26	16.72
18-14-apr	3:05:08	594	-1.4	-2.7	-1.3	26	16.71
18-14-apr	4:05:08	594	-2.2	-3.6	-1.3	26	16.71
18-14-apr	5:05:08	594	-2.6	-4.2	-1.6	26	16.72
18-14-apr	6:05:08	594	-2.2	-3.5	-1.3	26	16.71
18-14-apr	7:05:08	594	1.7	0.7	-1.0	27	16.70
18-14-apr	8:05:08	594	4.2	4.2	0.0	27	16.72
18-14-apr	9:05:08	594	6.5	7.4	0.9	28	16.70
18-14-apr	10:05:08	594	9.1	10.3	1.2	29	16.71
18-14-apr	11:05:08	594	11.2	13.2	2.0	29	16.71
18-14-apr	12:05:08	593	13.2	15.0	1.9	29	16.71
18-14-apr	13:05:08	592	14.9	16.8	1.9	30	16.71
18-14-apr	14:05:08	592	15.1	17.5	2.5	30	16.72
18-14-apr	15:05:08	591	15.3	17.7	2.4	30	16.71
18-14-apr	16:05:08	591	14.7	16.9	2.2	30	16.70
18-14-apr	17:05:08	591	14.0	15.4	1.5	30	16.70
18-14-apr	18:05:08	591	11.5	12.6	1.0	29	16.71
18-14-apr	19:05:08	592	6.8	7.0	0.2	29	16.71
18-14-apr	20:05:08	592	4.8	4.1	-0.7	28	16.71
18-14-apr	21:05:08	592	3.2	2.4	-0.7	28	16.71
18-14-apr	22:05:08	592	1.1	0.7	-0.5	28	16.71
18-14-apr	23:05:08	592	1.0	0.0	-1.0	28	16.71

BGI PQ200 Air Sar	mpling System Downloaded 2018 23 apr 13:29:29	
Job Details:  Job Name: 18Apr23D.JOB  Version: 5.62  Serial No: 2366	Job Code: Site Name: 2366D Station Code: Operators: KN	
Pump Time: 3300:08 Flags:	User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ	
Max Min Avg Units BP 591 582 586 mmHg TA 9.1 -6.1 1.9 °C Q 16.7 Lpm  QCV 0.53 %  Max overheat 3.2 °C occured 20-apr 13:10:24  Notes 1:	Timer Information:   Mass Concentration Data:   Date	3 3 9
Notes 2:  Temps, 'C  10  5  0  -5	- I white the same of the same	TA TF
-10 0 5	10 15 20 25 Elapsed Time, Hrs	
Mary.		

0:05:08	584	-2.6	-3.6	-1.0	31	16.71
1:05:08	584	-3.8	-4.7	-0.8	31	16.71
2:05:08	584	-5.2	-5.9	-0.8	32	16.71
3:05:08	584	-3.3	-4.4	-1.1	32	16.71
4:05:08	583	-1.5	-2.3	-0.8	33	16.72
5:05:08	583	-1.2	-1.4	-0.2	33	16.71
6:05:08	584	-1.1	-1.2	-0.1	33	16.71
7:05:08	584	-0.8	-0.7	0.1	33	16.72
8:05:08	584	0.2	0.7	0.5	34	16.72
9:05:08	585	3.6	4.3	0.7	34	16.70
10:05:08	585	3.4	4.6	1.3	34	16.71
11:05:08	586	3.8	4.0	0.2	34	16.72
12:05:08	586	6.0	6.6	0.6	35	16.70
13:05:08	588	2.1	2.8	0.7	35	16.72
14:05:08	588	6.3	6.7	0.4	35	16.70
15:05:08	588	7.3	7.9	0.7	35	16.71
16:05:08	588	8.5	9.7	1.2	35	16.71
17:05:08	589	7.7	9.0	1.3	35	16.71
18:05:08	589	6.0	6.6	0.7	35	16.71
19:05:08	590	4.6	4.1	-0.5	34	16.71
20:05:08	590	2.9	2.1	-0.8	34	16.71
21:05:08	591	1.1	0.1	-1.0	34	16.71
22:05:08	591	0.3	-1.1	-1.4	34	16.71
23:05:08	591	0.8	-1.3	-2.1	34	16.71
	1:05:08 2:05:08 3:05:08 4:05:08 5:05:08 6:05:08 7:05:08 8:05:08 9:05:08 10:05:08 11:05:08 12:05:08 14:05:08 15:05:08 17:05:08 17:05:08 19:05:08 19:05:08 20:05:08 21:05:08	1:05:08       584         2:05:08       584         3:05:08       584         4:05:08       583         5:05:08       583         6:05:08       584         7:05:08       584         8:05:08       584         9:05:08       585         10:05:08       585         11:05:08       586         12:05:08       586         13:05:08       588         14:05:08       588         15:05:08       588         16:05:08       588         17:05:08       589         19:05:08       590         20:05:08       591         22:05:08       591	1:05:08       584       -3.8         2:05:08       584       -5.2         3:05:08       584       -3.3         4:05:08       583       -1.5         5:05:08       583       -1.2         6:05:08       584       -1.1         7:05:08       584       -0.8         8:05:08       584       -0.2         9:05:08       585       3.6         10:05:08       585       3.4         11:05:08       586       3.8         12:05:08       586       6.0         13:05:08       588       2.1         14:05:08       588       6.3         15:05:08       588       7.3         16:05:08       588       7.7         18:05:08       589       7.7         18:05:08       589       6.0         19:05:08       590       4.6         20:05:08       591       1.1         22:05:08       591       0.3	1:05:08         584         -3.8         -4.7           2:05:08         584         -5.2         -5.9           3:05:08         584         -3.3         -4.4           4:05:08         583         -1.5         -2.3           5:05:08         583         -1.2         -1.4           6:05:08         584         -1.1         -1.2           7:05:08         584         -0.8         -0.7           8:05:08         584         0.2         0.7           9:05:08         585         3.6         4.3           10:05:08         585         3.4         4.6           11:05:08         586         3.8         4.0           12:05:08         586         6.0         6.6           13:05:08         588         2.1         2.8           14:05:08         588         6.3         6.7           15:05:08         588         7.3         7.9           16:05:08         588         7.7         9.0           18:05:08         589         7.7         9.0           18:05:08         590         4.6         4.1           20:05:08         591         1.1         0.1 <td>1:05:08       584       -3.8       -4.7       -0.8         2:05:08       584       -5.2       -5.9       -0.8         3:05:08       584       -3.3       -4.4       -1.1         4:05:08       583       -1.5       -2.3       -0.8         5:05:08       583       -1.2       -1.4       -0.2         6:05:08       584       -1.1       -1.2       -0.1         7:05:08       584       -0.8       -0.7       0.1         8:05:08       584       0.2       0.7       0.5         9:05:08       585       3.6       4.3       0.7         10:05:08       585       3.4       4.6       1.3         11:05:08       586       3.8       4.0       0.2         12:05:08       586       3.8       4.0       0.2         12:05:08       586       6.0       6.6       0.6         13:05:08       588       2.1       2.8       0.7         14:05:08       588       6.3       6.7       0.4         15:05:08       588       7.3       7.9       0.7         16:05:08       588       8.5       9.7       1.2</td> <td>1:05:08       584       -3.8       -4.7       -0.8       31         2:05:08       584       -5.2       -5.9       -0.8       32         3:05:08       584       -3.3       -4.4       -1.1       32         4:05:08       583       -1.5       -2.3       -0.8       33         5:05:08       583       -1.2       -1.4       -0.2       33         6:05:08       584       -1.1       -1.2       -0.1       33         7:05:08       584       -0.8       -0.7       0.1       33         8:05:08       584       -0.8       -0.7       0.1       33         8:05:08       584       -0.8       -0.7       0.1       33         8:05:08       584       -0.8       -0.7       0.1       33         8:05:08       584       -0.8       -0.7       0.1       33         8:05:08       585       3.6       4.3       0.7       34         10:05:08       585       3.4       4.6       1.3       34         11:05:08       586       3.8       4.0       0.2       34         12:05:08       588       6.3       6.7</td>	1:05:08       584       -3.8       -4.7       -0.8         2:05:08       584       -5.2       -5.9       -0.8         3:05:08       584       -3.3       -4.4       -1.1         4:05:08       583       -1.5       -2.3       -0.8         5:05:08       583       -1.2       -1.4       -0.2         6:05:08       584       -1.1       -1.2       -0.1         7:05:08       584       -0.8       -0.7       0.1         8:05:08       584       0.2       0.7       0.5         9:05:08       585       3.6       4.3       0.7         10:05:08       585       3.4       4.6       1.3         11:05:08       586       3.8       4.0       0.2         12:05:08       586       3.8       4.0       0.2         12:05:08       586       6.0       6.6       0.6         13:05:08       588       2.1       2.8       0.7         14:05:08       588       6.3       6.7       0.4         15:05:08       588       7.3       7.9       0.7         16:05:08       588       8.5       9.7       1.2	1:05:08       584       -3.8       -4.7       -0.8       31         2:05:08       584       -5.2       -5.9       -0.8       32         3:05:08       584       -3.3       -4.4       -1.1       32         4:05:08       583       -1.5       -2.3       -0.8       33         5:05:08       583       -1.2       -1.4       -0.2       33         6:05:08       584       -1.1       -1.2       -0.1       33         7:05:08       584       -0.8       -0.7       0.1       33         8:05:08       584       -0.8       -0.7       0.1       33         8:05:08       584       -0.8       -0.7       0.1       33         8:05:08       584       -0.8       -0.7       0.1       33         8:05:08       584       -0.8       -0.7       0.1       33         8:05:08       585       3.6       4.3       0.7       34         10:05:08       585       3.4       4.6       1.3       34         11:05:08       586       3.8       4.0       0.2       34         12:05:08       588       6.3       6.7

	BGI PQ200	Air San	nplir	ng System	Downloaded	2018 27 apr 09	9:18:54
Job De	Job Name: 18A Version:	5.62 2366			ÿÿÿÿÿÿÿÿÿÿÿÿÿ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
100000000000000000000000000000000000000	Max Min A 592 588 24.5 4.9 	vg Units 590 mmHg 14.3 °C 16.7 Lpm 0.53 % 4 °C	Start: Stop:	Date dd-mmm 18-26-apr 18-27-apr	Time hh:mm:ss 0:00:08 0:00:04	Mass Concen Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol:	tration Data:  7  mg  mg  0.000 mg  24.041 m^3
N	ccured 26-apr 15:1 otes 1: otes 2:	3:21	ET:	23:59		Mass Conc:	0 µg/m3
30 - 25 - 20 - 15 - 10 - 5 -	Temps, 'C  Overheat, TF- TA, 'C	<u>, w</u>		Elapsed Time, Hrs	15	20	25
150 120 90 60 30	SP, cmH20	5		10 Elapsed Time, Hrs	15	20	25

0:05:08	591	7.0	6.0	-1.0	28	16.71
1:05:08	591	7.0	5.8	-1.2	29	16.71
2:05:08	591	7.0	5.7	-1.3	29	16.71
3:05:08	591	6.7	5.7	-1.0	29	16.71
4:05:08	591	6.2	5.0	-1.2	29	16.71
5:05:08	591	5.6	4.3	-1.3	29	16.71
6:05:08	591	9.1	7.0	-2.0	30	16.71
7:05:08	591	14.2	12.6	-1.6	30	16.72
8:05:08	591	16.4	16.4	0.0	31	16.71
9:05:08	591	18.9	19.6	0.7	32	16.70
10:05:08	591	20.3	21.8	1.5	32	16.71
11:05:08	591	21.3	22.8	1.6	33	16.69
12:05:08	590	22.1	23.8	1.7	33	16.71
13:05:08	590	22.3	24.7	2.4	33	16.71
14:05:08	589	22.9	25.7	2.8	33	16.71
15:05:08	589	22.6	25.2	2.6	33	16.71
16:05:08	589	22.0	23.6	1.5	33	16.71
17:05:08	589	20.5	21.6	1.1	33	16.71
18:05:08	589	18.8	19.7	0.8	33	16.71
19:05:08	589	14.7	15.0	0.3	33	16.72
20:05:08	590	10.1	10.3	0.1	33	16.71
21:05:08	590	9.7	8.7	-1.0	33	16.70
22:05:08	590	8.5	7.3	-1.2	32	16.70
23:05:08	590	9.1	7.3	-1.8	32	16.70
	1:05:08 2:05:08 3:05:08 4:05:08 5:05:08 6:05:08 7:05:08 8:05:08 9:05:08 10:05:08 11:05:08 12:05:08 13:05:08 14:05:08 15:05:08 17:05:08 18:05:08 19:05:08 20:05:08 21:05:08	1:05:08 591 2:05:08 591 3:05:08 591 4:05:08 591 5:05:08 591 6:05:08 591 7:05:08 591 8:05:08 591 9:05:08 591 10:05:08 591 11:05:08 591 12:05:08 590 13:05:08 590 14:05:08 589 15:05:08 589 17:05:08 589 17:05:08 589 17:05:08 589 17:05:08 589 17:05:08 589 17:05:08 589 17:05:08 589 17:05:08 589 17:05:08 589 17:05:08 589 17:05:08 589 17:05:08 589 17:05:08 589 19:05:08 589 20:05:08 590 21:05:08 590	1:05:08       591       7.0         2:05:08       591       7.0         3:05:08       591       6.7         4:05:08       591       6.2         5:05:08       591       5.6         6:05:08       591       9.1         7:05:08       591       14.2         8:05:08       591       16.4         9:05:08       591       18.9         10:05:08       591       20.3         11:05:08       591       21.3         12:05:08       590       22.1         13:05:08       590       22.3         14:05:08       589       22.9         15:05:08       589       22.6         16:05:08       589       22.0         17:05:08       589       20.5         18:05:08       589       14.7         20:05:08       590       10.1         21:05:08       590       9.7         22:05:08       590       8.5	1:05:08       591       7.0       5.8         2:05:08       591       7.0       5.7         3:05:08       591       6.7       5.7         4:05:08       591       6.2       5.0         5:05:08       591       5.6       4.3         6:05:08       591       9.1       7.0         7:05:08       591       14.2       12.6         8:05:08       591       16.4       16.4         9:05:08       591       18.9       19.6         10:05:08       591       20.3       21.8         11:05:08       591       20.3       21.8         12:05:08       590       22.1       23.8         13:05:08       590       22.1       23.8         13:05:08       590       22.3       24.7         14:05:08       589       22.9       25.7         15:05:08       589       22.0       23.6         17:05:08       589       22.0       23.6         17:05:08       589       20.5       21.6         18:05:08       589       14.7       15.0         20:05:08       590       10.1       10.3	1:05:08       591       7.0       5.8       -1.2         2:05:08       591       7.0       5.7       -1.3         3:05:08       591       6.7       5.7       -1.0         4:05:08       591       6.2       5.0       -1.2         5:05:08       591       5.6       4.3       -1.3         6:05:08       591       9.1       7.0       -2.0         7:05:08       591       14.2       12.6       -1.6         8:05:08       591       14.2       12.6       -1.6         8:05:08       591       16.4       16.4       0.0         9:05:08       591       18.9       19.6       0.7         10:05:08       591       20.3       21.8       1.5         11:05:08       591       21.3       22.8       1.6         12:05:08       590       22.1       23.8       1.7         13:05:08       590       22.1       23.8       1.7         13:05:08       589       22.9       25.7       2.8         15:05:08       589       22.0       23.6       1.5         17:05:08       589       20.5       21.6       1.1	1:05:08       591       7.0       5.8       -1.2       29         2:05:08       591       7.0       5.7       -1.3       29         3:05:08       591       6.7       5.7       -1.0       29         4:05:08       591       6.2       5.0       -1.2       29         5:05:08       591       5.6       4.3       -1.3       29         6:05:08       591       9.1       7.0       -2.0       30         7:05:08       591       14.2       12.6       -1.6       30         8:05:08       591       16.4       16.4       0.0       31         9:05:08       591       18.9       19.6       0.7       32         10:05:08       591       20.3       21.8       1.5       32         11:05:08       591       21.3       22.8       1.6       33         12:05:08       590       22.1       23.8       1.7       33         13:05:08       590       22.3       24.7       2.4       33         15:05:08       589       22.9       25.7       2.8       33         15:05:08       589       22.0       23.6

BGI PQ200 Air Sar	nplir	ng Syster	<b>n</b> Downloaded	2018 04 may 1	3:09:06
Job Details:	Start:		e: e: s: 1: ÿÿÿÿÿÿÿÿÿÿÿÿÿ	Mass Concent Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol:	
Max overheat 3.6 °C occured 03-may 13:56:00	ET:	23:59		Mass Conc:	0 µg/m3
Notes 1: Notes 2:					
Temps, 'C  5 4 3 2 1 0 -1	μ	Myn			— TA TF
-2 - 5	10	) Elapsed Time, Hrs	15	20	25
	<b>~</b> ^~	mmy	mm	<b></b>	

							and the second s
18-02-may	0:05:08	585	0.5	0.0	-0.6	26	16.71
18-02-may	1:05:08	585	0.6	0.0	-0.6	26	16.71
18-02-may	2:05:08	585	0.3	-0.1	-0.4	27	16.71
18-02-may	3:05:08	585	-0.1	-0.6	-0.5	27	16.71
18-02-may	4:05:08	585	-0.6	-1.2	-0.6	27	16.72
18-02-may	5:05:08	585	-0.2	-1.0	-0.8	27	16.71
18-02-may	6:05:08	585	0.5	-0.1	-0.6	27	16.71
18-02-may	7:05:08	585	0.8	0.6	-0.3	27	16.70
18-02-may	8:05:08	585	1.9	1.8	-0.2	27	16.72
18-02-may	9:05:08	585	2.3	2.6	0.3	28	16.72
18-02-may	10:05:08	585	3.3	4.4	1.1	28	16.70
18-02-may	11:05:08	586	2.9	4.3	1.4	28	16.71
18-02-may	12:05:08	586	0.7	1.4	0.7	28	16.71
18-02-may	13:05:08	586	0.9	1.3	0.3	28	16.70
18-02-may	14:05:08	586	2.2	2.7	0.4	28	16.71
18-02-may	15:05:08	586	2.9	3.2	0.3	28	16.71
18-02-may	16:05:08	586	2.7	2.7	0.0	28	16.70
18-02-may	17:05:08	587	1.4	1.4	0.0	29	16.71
18-02-may	18:05:08	587	0.7	0.6	-0.1	29	16.71
18-02-may	19:05:08	588	1.1	0.6	-0.5	29	16.71
18-02-may	20:05:08	588	1.1	0.6	-0.5	29	16.72
18-02-may	21:05:08	588	1.5	0.9	-0.7	29	16.71
18-02-may	22:05:08	589	1.5	1.0	-0.5	29	16.71
18-02-may	23:05:08	589	1.3	0.8	-0.5	29	16.71

BGI PQ200 Air Sar	npling Sys	tem Downloaded	I 2018 09 may 09:52:1	9
Job Details: Job Name: 18May09D.JOB Version: 5.62 Serial No: 2366 Pump Time: 3372:05 Flags:	Site Station Ope	rators: User1: ÿÿÿÿÿÿÿÿÿÿÿÿ User2: ÿÿÿÿÿÿÿÿÿÿÿ	///////////////////////////////////////	
Max Min Avg Units BP 593 589 591 mmHg TA 29 6.8 17.7 °C 16.7 Lpm  QCV 0.56 %  Max overheat 3.3 °C occured 08-may 12:30:17	Date dd-mmm Start: 18-08-ma Stop: 18-09-ma	Time hh:mm:ss y 0:00:08 y 0:00:04	Final Wt: Initial Wt: Delta Wt: 0.0	mg mg mg mg 000 mg 038 m^3
Notes 1: Notes 2:				TA
Temps, 'C		wwww		TA TF
25 20 15	- Andrew Market		it.	
10			Marining Nie	
0 5	10 Elapsed Tim	15 e, Hrs	20	25
Overheat, TF- TA, 'C  4 3 2 1 0 -1 -2 -3 -4 -5 0 5	10 Elapsed Time	15 a, Hrs	20	25
SP, cmH20  120  90  60  30  0  5	10 Elapsed Time	h, Hrs	20	25

18-08-may	0:05:08	592	9.0	7.7	-1.3	26	16.71
18-08-may	1:05:08	592	8.8	7.8	-1.0	27	16.71
18-08-may	2:05:08	592	8.0	7.1	-0.9	27	16.70
18-08-may	3:05:08	592	8.9	7.3	-1.6	27	16.71
18-08-may	4:05:08	592	8.9	7.6	-1.3	27	16.72
18-08-may	5:05:08	592	8.7	7.5	-1.2	27	16.70
18-08-may	6:05:08	592	11.5	9.2	-2.3	27	16.71
18-08-may	7:05:08	592	17.0	15.0	-2.0	28	16.71
18-08-may	8:05:08	592	21.9	21.1	-0.8	29	16.71
18-08-may	9:05:08	592	24.1	24.4	0.3	30	16.70
18-08-may	10:05:08	592	25.2	26.3	1.1	30	16.71
18-08-may	11:05:08	592	25.6	27.6	1.9	31	16.71
18-08-may	12:05:08	591	26.8	28.6	1.9	31	16.71
18-08-may	13:05:08	591	27.3	29.3	2.0	31	16.71
18-08-may	14:05:08	590	27.0	29.3	2.3	32	16.72
18-08-may	15:05:08	590	27.2	29.2	2.1	31	16.72
18-08-may	16:05:08	590	26.8	28.6	1.8	32	16.71
18-08-may	17:05:08	590	25.8	27.2	1.4	31	16.71
18-08-may	18:05:08	590	23.1	23.9	0.8	31	16.71
18-08-may	19:05:08	591	15.4	16.5	1.1	31	16.72
18-08-may	20:05:08	591	13.0	12.7	-0.2	31	16.71
18-08-may	21:05:08	591	12.6	11.6	-0.9	31	16.71
18-08-may	22:05:08	591	11.6	10.9	-0.7	31	16.72
18-08-may	23:05:08	591	10.1	9.4	-0.6	31	16.71

BGI PQ200 Air Sam	plir	ng Syste	<b>m</b> Downloaded	2018 15 may 11	:04:51
Job Details:		Job Cod			
Job Name: 18May15D.JOB		Site Nam			
Version: 5.62		Station Cod			
Serial No: 2366		Operato			
Pump Time: 3396:04		Use	r1: ÿÿÿÿÿÿÿÿÿÿÿÿ	/yyyyyyyyyyyyy	<b>/</b> yyy
Flags:			r2: үүүүүүүүү		
	imer	Information:		Mass Concentr	
BP <u>589 587 588</u> mmHg		_ 1 700		Filter ID:	31
TA 19.3 1.2 10.9 °C		Date	Time	Final Wt:	mg
Q   16.7 Lpm		dd-mmm	hh:mm:ss	Initial Wt:	mg
	Start:	18-14-may	0:00:08	Delta Wt:	0.000 mg
QCV 0.53 %	Stop:	18-15-may	0:00:05	Total Vol:	24.035 m^3
Max overheat 3.6 °C					
occured 14-may 10:27:02	ET:	23:59		Mass Conc:	0 µg/m3
Notes 1:					
Notes 2:					
Temps, 'C					— та
25 Temps, C					TF
20			***********		
		· Am mm	www.	~	
15	~~~	MAN		1	
10	w••			-100	
10				M. Mah	m
5					-
www.					
0					
0 5	10	) Elapsed Time, Hr	15 s	20	25
		11010	a Almha nersh		
	<b>√</b> \\	MAY WAY.	M MINAN A CA	M	
warming as N	-			M 1.1	- M - F
			-	Ww	~~~
-4					
-5					

					11-12-11-11-11-11-11-11-11-11-11-11-11-1		
18-14-may	0:05:08	588	4.7	3.9	-0.7	25	16.72
18-14-may	1:05:08	588	3.7	3.2	-0.5	25	16.71
18-14-may	2:05:08	588	2.0	1.6	-0.4	25	16.71
18-14-may	3:05:08	588	1.9	0.9	-1.0	25	16.71
18-14-may	4:05:08	588	2.8	1.5	-1.2	25	16.71
18-14-may	5:05:08	588	2.2	1.3	-0.9	25	16.71
18-14-may	6:05:08	589	6.9	5.3	-1.6	26	16.71
18-14-may	7:05:08	589	10.9	11.0	0.2	27	16.71
18-14-may	8:05:08	589	12.3	13.5	1.2	28	16.72
18-14-may	9:05:08	588	13.8	15.2	1.5	28	16.71
18-14-may	10:05:08	589	14.9	16.6	1.6	28	16.70
18-14-may	11:05:08	589	15.5	17.2	1.7	28	16.70
18-14-may	12:05:08	588	16.6	18.1	1.5	29	16.70
18-14-may	13:05:08	588	17.2	19.5	2.3	29	16.70
18-14-may	14:05:08	588	17.6	19.7	2.1	29	16.71
18-14-may	15:05:08	587	17.6	19.4	1.8	29	16.70
18-14-may	16:05:08	587	17.6	19.8	2.1	29	16.70
18-14-may	17:05:08	587	17.2	18.8	1.6	29	16.70
18-14-may	18:05:08	587	16.6	17.7	1.1	29	16.70
18-14-may	19:05:08	588	11.1	12.1	1.1	29	16.71
18-14-may	20:05:08	588	8.5	7.9	-0.6	28	16.71
18-14-may	21:05:08	589	10.0	8.5	-1.6	28	16.71
18-14-may	22:05:08	589	9.3	8.2	-1.1	28	16.71
18-14-may	23:05:08	589	8.7	7.7	-1.0	28	16.72

remove to						BANALUS BIA HISTORIA (ESANALUS ANTRA DE CARTO ESTADO ES	
	BGI PQ200	Air San	nplir	ng Syster	n Downloaded	2018 22 may 12	::27:44
Joh	Details:			Job Cod			
000	Job Name: 18N	May22D JOB		Site Nam			
	Version:	5.62		Station Cod			
		2366		Operator			
	Pump Time: 342					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Flags:	.0.00				//////////////////////////////////////	
D-11748-7-2915		vg Units	Timer	Information:	<i>2.</i>	Mass Concentr	
BP	589 586	587 mmHg				Filter ID:	20
TA	22 5.4	13.6 °C		Date	Time	Final Wt:	mg
Q		16.7 Lpm		dd-mmm	hh:mm:ss	Initial Wt:	mg
_		тол	Start:	18-20-may	0:00:08	Delta Wt:	0.000 mg
QCV		0.54 %		18-21-may	0:00:04	Total Vol:	24.038 m^3
	overheat	4 °C	Оюр.	10 21 may	0.00.04	10(01 701.	24.000 m 0
Max	occured 20-may 15	2000 20000	ET:	23:59		Mass Conc:	0 µg/m3
-	Notes 1:	.07.77	<u> </u>	20.00		mass sone.	Ордунно
	Notes 1:						
							— ТА
25	Temps, 'C	т			-		TF
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20	+			$\sim \sim $	my		
45		أتتم	had			):	
15	-	1				tion	
10	M.	Į.				- tu	
	Jumes of the same					V.	M2
5							
0			3				
U	0	5	10	0	15	20	25
				Elapsed Time, Hrs			
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	my	~~~					
		-	-		-		
		1					

18-20-may	0:05:08	588	8.7	8.0	-0.7	31	16.70
18-20-may	1:05:08	588	7.8	6.8	-1.0	31	16.71
18-20-may	2:05:08	588	7.7	6.5	-1.2	31	16.71
18-20-may	3:05:08	588	6.9	5.9	-1.0	31	16.71
18-20-may	4:05:08	588	6.5	5.3	-1.2	31	16.71
18-20-may	5:05:08	589	6.5	5.4	-1.1	31	16.72
18-20-may	6:05:08	589	9.9	9.2	-0.7	32	16.71
18-20-may	7:05:08	589	14.9	15.1	0.2	33	16.71
18-20-may	8:05:08	589	17.2	18.5	1.3	33	16.70
18-20-may	9:05:08	588	18.2	19.8	1.7	34	16.71
18-20-may	10:05:08	588	19.6	21.7	2.1	35	16.71
18-20-may	11:05:08	588	19.6	21.2	1.6	34	16.71
18-20-may	12:05:08	587	20.0	21.3	1.3	34	16.71
18-20-may	13:05:08	587	20.3	21.6	1.2	34	16.70
18-20-may	14:05:08	587	20.2	21.3	1.1	35	16.70
18-20-may	15:05:08	587	19.7	21.5	1.8	35	16.70
18-20-may	16:05:08	586	18.4	19.9	1.5	35	16.72
18-20-may	17:05:08	586	18.1	18.9	8.0	34	16.70
18-20-may	18:05:08	586	16.7	18.1	1.3	34	16.71
18-20-may	19:05:08	587	13.0	12.9	-0.1	34	16.73
18-20-may	20:05:08	587	9.7	9.9	0.2	34	16.71
18-20-may	21:05:08	587	8.4	7.8	-0.6	34	16.71
18-20-may	22:05:08	588	8.3	7.4	-1.0	34	16.71
18-20-may	23:05:08	588	7.7	7.0	-0.7	34	16.71

	BGI PQ200 Air S	ampli	ng Syste	<b>m</b> Downloaded	2018 29 may 11	1:14:11
Job E	Details: Job Name: 18May29D.J0 Version: 5.62 Serial No: 2366	DВ	Job Coo Site Nam Station Coo Operato	ne: de: rs:		
	Pump Time: 3444:02 Flags:				<i></i>	
BP TA Q	Max         Min         Avg         Units           589         583         586         mml           21.9         0.1         11.8         °C            16.7         Lpm	Hg Start:	Date dd-mmm 18-26-may 18-27-may	Time hh:mm:ss 0:00:08 0:00:04	Mass Concent Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol:	
Max c	overheat 3.7 °C			0.00.04		
1	occured 28-may 13:52:21 Notes 1: Notes 2:	ET	23:59		Mass Conc:	0 µg/m3
	Temps, 'C					— ТА ••• ТР
25 20			- sinh ribin	· · · · · · · · · · · · · · · · · · ·		
15	(	mannam	, , , , , , , , , , , , , , , , , , ,		and the same	
10		-			Jan Ju	<u>.</u>
5 0	Minne					
-5	0 5	1	0 Elapsed Time, Hr	15	20	25
1					1	

18-26-may	0:05:08	589	3.1	2.3	-0.8	31	16.70
18-26-may	1:05:08	588	2.4	1.2	-1.2	31	16.72
18-26-may	2:05:08	588	1.8	0.6	-1.2	31	16.72
18-26-may	3:05:08	588	1.8	0.4	-1.4	31	16.71
18-26-may	4:05:08	588	1.9	-0.1	-2.0	31	16.71
18-26-may	5:05:08	588	1.7	0.1	-1.6	31	16.71
18-26-may	6:05:08	587	10.3	7.6	-2.7	32	16.71
18-26-may	7:05:08	587	14.0	13.9	-0.1	33	16.69
18-26-may	8:05:08	587	15.3	16.1	0.8	34	16.71
18-26-may	9:05:08	587	16.0	17.0	1.0	34	16.71
18-26-may	10:05:08	587	17.2	17.8	0.7	35	16.72
18-26-may	11:05:08	586	18.0	18.9	0.9	34	16.71
18-26-may	12:05:08	586	18.9	19.6	0.7	34	16.71
18-26-may	13:05:08	585	19.6	20.7	1.1	35	16.71
18-26-may	14:05:08	585	20.6	22.0	1.4	35	16.71
18-26-may	15:05:08	584	20.7	22.6	1.9	35	16.71
18-26-may	16:05:08	584	19.1	20.6	1.5	35	16.71
18-26-may	17:05:08	584	17.0	17.8	8.0	35	16.71
18-26-may	18:05:08	585	16.5	17.7	1.2	35	16.71
18-26-may	19:05:08	585	13.4	13.8	0.4	35	16.72
18-26-may	20:05:08	585	11.8	11.3	-0.5	35	16.71
18-26-may	21:05:08	586	9.1	8.7	-0.3	34	16.71
18-26-may	22:05:08	587	6.9	7.1	0.2	35	16.73
18-26-may	23:05:08	587	4.1	4.2	0.2	34	16.71

BGI PQ200 Air Sar	npling System Downloaded 201	8 04 jun 15:24:17
Job Details: Job Name: 18Jun04D.JOB Version: 5.62 Serial No: 2366 Pump Time: 3468:01 Flags:	Job Code: Site Name: Station Code: Operators: User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ	
Max Min Avg Units BP 593 586 589 TA 25 3.2 15.6 Q 16.7  QCV 0.5 %  Max overheat	Timer Information:         Ma           Date         Time           dd-mmm         hh:mm:ss           Start:         18-01-jun         0:00:08           Stop:         18-02-jun         0:00:05	Filter ID: 41 Final Wt: mg Initial Wt: mg Delta Wt: 0.000 mg Total Vol: 24.04 m^3  ass Conc: 0 µg/m3
30 25 20 15 10 5		in the second se
0 5	10 15	20 25
Overheat, TF-		

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18-01-jun	0:05:08	587	11.7	10.5	-1.2	27	16.71
18-01-jun	1:05:08	588	4.9	5.4	0.5	27	16.71
18-01-jun	2:05:08	588	4.8	3.8	-0.9	26	16.71
18-01-jun	3:05:08	588	4.2	3.2	-1.0	26	16.71
18-01-jun	4:05:08	589	3.7	2.7	-1.0	27	16.71
18-01-jun	5:05:08	589	4.8	3.3	-1.5	27	16.72
18-01-jun	6:05:08	589	9.8	8.3	-1.5	28	16.71
18-01-jun	7:05:08	590	14.4	14.4	0.1	29	16.71
18-01-jun	8:05:08	590	16.7	17.7	1.1	29	16.72
18-01-jun	9:05:08	590	18.2	19.9	1.7	30	16.71
18-01-jun	10:05:08	590	19.3	20.8	1.5	30	16.71
18-01-jun	11:05:08	590	20.7	22.1	1.4	31	16.71
18-01-jun	12:05:08	590	22.1	23.2	1.1	31	16.71
18-01-jun	13:05:08	590	22.7	24.3	1.7	31	16.71
18-01-jun	14:05:08	590	23.5	25.2	1.7	31	16.71
18-01-jun	15:05:08	590	23.8	25.8	2.0	32	16.70
18-01-jun	16:05:08	590	24.1	26.2	2.1	32	16.71
18-01-jun	17:05:08	590	23.7	25.5	1.8	32	16.71
18-01-jun	18:05:08	590	21.8	23.1	1.3	32	16.71
18-01-jun	19:05:08	591	18.2	18.7	0.5	31	16.72
18-01-jun	20:05:08	591	16.4	15.8	-0.6	31	16.71
18-01-jun	21:05:08	592	15.4	14.3	-1.1	31	16.71
18-01-jun	22:05:08	592	14.0	13.1	-0.8	31	16.70
18-01-jun	23:05:08	593	13.8	12.5	-1.3	31	16.71

В	GI PQ200	Air Sar	nplir	ng Syster	n Downloaded	2018 08 jun 12:21:18	3
Job Deta	ils:			Job Cod	e:		
- 1	Job Name: 18Ju	un08D.JOB		Site Nam			
		5.62		Station Cod			
		2366		Operator			
	Pump Time: 3492					, , , , , , , , , , , , , , , , , , ,	
'	Flags:	2.00				//////////////////////////////////////	
M	lax Min A	vg Units	Timor	Information:	Z. <b>Y</b> YYYYYYYYYYY	Mass Concentration	n Data:
		589 mmHg		illioilliation.		Filter ID:	15
		17.2 °C		Date	Time	Final Wt:	
				dd-mmm			mg
Q <u> </u>		16.7 Lpm	٠		hh:mm:ss	Initial Wt:	mg
				18-07-jun	0:00:08		000 mg
QCV		0.52 %	Stop:	18-08-jun	0:00:05	Total Vol: 24.0	037 m^3
Max overh		2.9 °C				l	
THE RESERVE TO SERVE THE PARTY OF THE PARTY	ured 07-jun 15:0	1:45	ET:	23:59		Mass Conc:	0 µg/m3
Note							
Note	es 2:						
	Temps, 'C						— ТА
30							TF
25				air M	money		
			m	m			
20		شممير	•			M	
15						Šį.	
		/				March March	
10	minima						
5		<u>ب.</u>					
0							
0	5	5	10	0 Elapsed Time, Hrs	15	20	25
	Overheat, TF- TA, 'C				:		
5	17, 0						
3			-				
2			NY	myny	MMy		
0	*	4	VW	A. O. Alv. al.		my my	
-1 ~N	mym	7.00				A MWW	
-2							
-4	-		-			*	
-5	-				15	20	
0	5		10	Elapsed Time, Hrs	15	20	25
150	SP, cmH20						
120				-			
90							
60							
30		+					
0							
0		5		10 Elapsed Time, Hrs	15	20	25

18-07-jun	0:05:08	589	9.6	8.5	-1.1	24	16.71
18-07-jun	1:05:08	589	8.9	7.8	-1.1	24	16.71
18-07-jun	2:05:08	589	8.2	7.3	-0.9	24	16.72
18-07-jun	3:05:08	589	7.3	6.5	-0.8	24	16.71
18-07-jun	4:05:08	589	6.4	5.6	-0.8	24	16.72
18-07-jun	5:05:08	589	7.2	5.7	-1.4	24	16.71
18-07-jun	6:05:08	590	13.2	11.5	-1.7	25	16.71
18-07-jun	7:05:08	590	18.4	17.9	-0.4	26	16.72
18-07-jun	8:05:08	590	20.3	21.0	0.8	26	16.72
18-07-jun	9:05:08	590	21.4	22.7	1.3	27	16.71
18-07-jun	10:05:08	590	22.6	23.8	1.2	27	16.72
18-07-jun	11:05:08	590	23.2	24.5	1.3	27	16.71
18-07-jun	12:05:08	589	24.2	25.4	1.2	27	16.70
18-07-jun	13:05:08	589	25.3	26.5	1.3	27	16.70
18-07-jun	14:05:08	589	25.9	27.5	1.6	27	16.70
18-07-jun	15:05:08	589	26.1	28.0	1.9	28	16.70
18-07-jun	16:05:08	588	26.0	27.8	1.8	28	16.71
18-07-jun	17:05:08	588	25.3	26.8	1.6	28	16.71
18-07-jun	18:05:08	589	22.6	22.9	0.3	28	16.71
18-07-jun	19:05:08	589	19.7	19.7	0.0	27	16.72
18-07-jun	20:05:08	590	14.4	15.0	0.6	28	16.70
18-07-jun	21:05:08	590	12.6	12.2	-0.4	27	16.71
18-07-jun	22:05:08	591	11.7	11.1	-0.6	27	16.70
18-07-jun	23:05:08	591	10.7	10.0	-0.7	27	16.69

BGI PQ200 Air San	mpling System Downloaded 2018 14 jun 14:27:59
Job Details: Job Name: 18Jun14D.JOB Version: 5.62 Serial No: 2366 Pump Time: 3515:59 Flags:	Job Code: Site Name: 2366D Station Code: Operators: KN User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
Max Min Avg Units BP 591 587 589 mmHg TA 31.7 9.5 20.7 °C Q 16.7 Lpm  QCV 0.52 %  Max overheat 3.5 °C occured 13-jun 15:01:09  Notes 1: Notes 2:	Timer Information: Mass Concentration Data:
35 30 25 20 15 10 5	10 15 20 25
Overheat, TF-	

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18-13-jun	0:05:08 590	12.5	11.7	-0.8	23	16.71
18-13-jun	1:05:08 590	12.1	10.9	-1.3	23	16.70
18-13-jun	2:05:08 590	11.6	10.6	-1.0	23	16.71
18-13-jun	3:05:08 590	12.4	10.9	-1.5	23	16.70
18-13-jun	4:05:08 590	10.6	9.6	-1.0	23	16.71
18-13-jun	5:05:08 59	1 11.5	10.3	-1.3	23	16.70
18-13-jun	6:05:08 59	1 16.2	15.1	-1.1	24	16.72
18-13-jun	7:05:08 590	21.5	21.3	-0.2	25	16.70
18-13-jun	8:05:08 590	25.9	26.6	0.8	26	16.69
18-13-jun	9:05:08 590	27.3	29.1	1.7	26	16.71
18-13-jun	10:05:08 590	28.3	29.5	1.2	27	16.72
18-13-jun	11:05:08 590	29.0	29.8	0.8	27	16.70
18-13-jun	12:05:08 589	29.3	30.4	1.1	27	16.70
18-13-jun	13:05:08 589	30.1	31.7	1.6	28	16.70
18-13-jun	14:05:08 588	3 29.6	31.2	1.7	28	16.69
18-13-jun	15:05:08 588	3 29.4	31.3	1.9	28	16.71
18-13-jun	16:05:08 588	3 29.5	31.5	2.0	29	16.71
18-13-jun	17:05:08 588	3 28.0	29.6	1.5	29	16.70
18-13-jun	18:05:08 588	3 26.4	26.8	0.4	28	16.71
18-13-jun	19:05:08 588	3 22.5	23.2	0.7	28	16.71
18-13-jun	20:05:08 589	15.2	15.5	0.3	28	16.70
18-13-jun	21:05:08 589	13.8	13.2	-0.6	28	16.70
18-13-jun	22:05:08 589	12.3	11.6	-0.7	28	16.71
18-13-jun	23:05:08 589	11.2	10.3	-0.9	27	16.71

BGI PQ200 Air Sar	mplir	ng Syster	<b>n</b> Downloaded	2018 27 jun 15:	14:12
Job Details: Job Name: 18Jun27D.JOB Version: 5.62 Serial No: 2366 Pump Time: 3603:09 Flags:			e: e: s: 1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿ	yyyyyyyyyyyyyyyyyy	
Max Min Avg Units BP 592 589 590 mmHg TA 33.1 10 22.2 °C Q 16.7 Lpm  QCV 0.55 %  Max overheat 3.4 °C occured 26-jun 15:10:26  Notes 1: Notes 2:	Start:	Date dd-mmm 18-25-jun 18-27-jun	Time hh:mm:ss 0:00:08 15:11:45	Mass Concenting Filter ID: JB Final Wt: Initial Wt: Delta Wt: Total Vol: Mass Conc:	ration Data:
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Overheat, TF-					

18-25-jun	0:05:08	591	13.0	11.7	-1.3	34	16.71
18-25-jun	1:05:08	591	12.8	11.5	-1.3	34	16.71
18-25-jun	2:05:08	591	12.2	11.0	-1.2	35	16.72
18-25-jun	3:05:08	591	11.4	10.2	-1.2	35	16.71
18-25-jun	4:05:08	591	10.9	9.6	-1.3	35	16.72
18-25-jun	5:05:08	591	12.0	10.6	-1.4	35	16.71
18-25-jun	6:05:08	591	15.7	14.9	-0.8	36	16.71
18-25-jun	7:05:08	592	21.3	21.0	-0.3	37	16.71
18-25-jun	8:05:08	591	24.8	25.8	1.0	38	16.71
18-25-jun	9:05:08	591	25.8	27.7	1.8	39	16.71
18-25-jun	10:05:08	591	27.1	28.5	1.4	40	16.71
18-25-jun	11:05:08	591	28.5	29.6	1.1	40	16.70
18-25-jun	12:05:08	590	29.5	30.5	1.0	41	16.71
18-25-jun	13:05:08	590	30.0	31.2	1.2	41	16.71
18-25-jun	14:05:08	590	31.1	32.5	1.5	41	16.70
18-25-jun	15:05:08	589	30.9	32.8	1.9	42	16.71
18-25-jun	16:05:08	589	30.0	31.8	1.8	42	16.71
18-25-jun	17:05:08	589	29.2	30.5	1.3	42	16.70
18-25-jun	18:05:08	590	28.0	29.1	1.1	42	16.71
18-25-jun	19:05:08	590	25.2	25.5	0.2	41	16.70
18-25-jun	20:05:08	591	18.0	18.7	0.7	42	16.71
18-25-jun	21:05:08	591	16.6	15.9	-0.7	42	16.71
18-25-jun	22:05:08	591	16.7	15.4	-1.3	42	16.71
18-25-jun	23:05:08	591	15.9	14.9	-1.1	42	16.71
18-26-jun	0:05:08	591	15.6	14.5	-1.1	42	16.71
18-26-jun	1:05:08	591	14.6	13.7	-1.0	42	16.71
18-26-jun	2:05:08	591	13.8	12.8	-1.0	42	16.71
18-26-jun	3:05:08	591	13.7	12.5	-1.2	42	16.71
18-26-jun	4:05:08	591	13.5	12.4	-1.2	42	16.71
18-26-jun	5:05:08	592	14.1	13.0	-1.1	42	16.71
18-26-jun	6:05:08	592	17.8	16.8	-1.0	43	16.71
18-26-jun	7:05:08	592	23.2	22.6	-0.6	43	16.71
18-26-jun	8:05:08	592	27.8	28.2	0.4	43	16.71
18-26-jun	9:05:08	591	28.8	30.6	1.7	44	16.70
18-26-jun	10:05:08	591	30.0	31.5	1.5	44	16.71
18-26-jun	11:05:08	591	30.7	32.0	1.3	44	16.71
18-26-jun	12:05:08	591	31.2	32.3	1.2	44	16.71
18-26-jun	13:05:08	591	31.2	32.8	1.6	44	16.71
18-26-jun	14:05:08	590	31.4	33.6	2.2	44	16.71
18-26-jun	15:05:08	590	31.4	33.5	2.1	44	16.72
18-26-jun	16:05:08	590	31.4	33.2	1.8	44	16.71
18-26-jun	17:05:08	590	30.5	32.3	1.7	45	16.70
18-26-jun	18:05:08	590	29.3	30.5	1.3	44	16.71
18-26-jun	19:05:08	590	25.2	26.3	1.1	44	16.70
18-26-jun	20:05:08	591	19.0	19.6	0.6	45	16.71
18-26-jun	21:05:08	591	17.1	16.8	-0.4	45	16.70
18-26-jun	22:05:08	591	16.1	15.2	-0.9	45	16.71
18-26-jun	23:05:08	592	15.1	14.2	-0.9	45	16.71
18-27-jun	0:05:08	592	14.3	13.2	-1.1	45	16.71
18-27-jun	1:05:08	592	13.6	12.5	-1.1	45	16.71
18-27-jun	2:05:08	591	13.4	12.1	-1.3	45	16.71
18-27-jun	3:05:08	591	13.2	12.0	-1.3	45	16.71
18-27-jun	4:05:08	591	13.0	11.8	-1.2	45	16.71
18-27-jun	5:05:08	591	13.3	12.1	-1.2	45	16.71
18-27-jun	6:05:08	592	16.8	15age 1	-0.9	46	16.71

18-27-jun	7:05:08	592	22.3	21.6	-0.7	46	16.71
18-27-jun	8:05:08	591	25.6	26.3	0.7	47	16.70
18-27-jun	9:05:08	591	27.5	28.9	1.4	47	16.70
18-27-jun	10:05:08	591	28.3	29.9	1.6	47	16.71
18-27-jun	11:05:08	591	29.6	30.9	1.4	47	16.71
18-27-jun	12:05:08	590	30.4	31.6	1.2	47	16.70
18-27-jun	13:05:08	590	30.9	32.2	1.3	47	16.71
18-27-jun	14:05:08	590	31.1	32.7	1.6	48	16.70
18-27-jun	15:05:08	589	31.3	32.7	1.4	48	16.69

# Collocated Monitor 2398E

# PM₁₀ Sampler Summary

April 1, 2018 - June 30, 2018

**Network: Alton Coal Development** 

Site: Coal Hollow

Sampler ID: Coal Hollow-E

AQS ID:

Sampler Type: BGI FRM Single

	Filter	Concentration (µg/m3)	Concentration (µg/m3)	Sample Period	Sample Volume	Std Volume	Tare	Mass Gross	Net		
Date	Ω	LTP	STP	(hr:min)	(m3)	(m3)	(mg)	(bu)	(mg)	Flag	Comments
04/02/18	P2946892	45.4	55.7	23:59	24.0	19.6	375.474	376.565	1.091	H	
04/08/18	P2947092		9.4	23:59	24.0	19.7	369.764	369.950	0.186	Ħ	
04/14/18	P2947097	7.7	9.2	23:59	24.0	20.0	374.444	374.630	0.186		
04/20/18	P2947102		26.0	23:59	24.0	20.1	370.355	370.879	0.524		
04/26/18	P2947327	50.9	63.2	23:59	24.0	19.4	374.426	375.651	1.225		
05/02/18	P2947333		8.4	23:59	24.0	20.1	371.247	371.416	0.169	Ħ	
05/08/18	P2947561	41.7	52.3	23:59	24.0	19.2	375.566	376.570	1.004		
05/14/18	P2947567	52.0	64.0	23:59	24.0	19.5	378.420	379.670	1.250		
05/20/18	P2947773		10.9	23:59	24.0	19.3	372.113	372.325	0.212		
05/26/18	P2947778		42.5	23:59	24.0	19.4	379.713	380.540	0.827		
06/01/18	P2947783		34.6	23:59	24.0	19.3	368.730	369.398	0.668		
06/07/18	P2948036		88.6	23:59	24.0	19.2	380.173	381.871	1.698		
06/13/18	P2948041	317.0	402.6	23:59	24.0	18.9	369.487	377.110	7.623		Loose particles
06/19/18	P2948234	165.3	207.2	23:59	24.0	19.2	373.745	377.720	3.975		Loose particles
06/25/18	P2948240	115.6	146.7	23:59	24.0	18.9	368.360	371.139	2.779		Loose particles
06/13/18	P2948042		Field Blank	논			371.379 371.379	371.379	0.000		
	# Valid 15	Recovery 100%	Average 81.4	St. Dev. 104.5	Max 402.6	Min 8.4					

Inter-Mountain Laboratories' (IML) data validation is limited by the provided information. Data have been validated based on laboratory QC, field observations and other information available to IML. Additional data validation based on information not provided to IML may be required. According to 40 CFR 58.15 final responsibilities for data review and validation lies with each agency submitting data to AQS.

<b>BGI PQ200 Air San</b>	mpling System Downloaded 2018 05 apr 11:01:08	
Job Details: Job Name: 18Apr05E.JOB Version: 5.62 Serial No: 2398 Pump Time: 910:23 Flags:	Job Code: Site Name: Station Code: Operators: User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ	
Max Min Avg Units  SP 588 584 585 mmHg  TA 18.7 -1.2 8.7 °C  QCV 0.53 %  Max overheat 4 °C  occured 04-apr 19:24:42  Notes 1:  Notes 2:	Timer Information: Mass Concentration Data	g g g ^3
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Overheat, TF-		

18-02-apr	0:05:08	587	1.9	0.6	-1.3	31	16.71
18-02-apr	1:05:08	587	1.0	0.0	-1.1	31	16.71
18-02-apr	2:05:08	586	0.8	-0.7	-1.4	32	16.72
18-02-apr	3:05:08	586	0.0	-1.3	-1.3	32	16.70
18-02-apr	4:05:08	586	0.2	-1.3	-1.5	32	16.72
18-02-apr	5:05:08	586	-0.5	-1.8	-1.3	32	16.71
18-02-apr	6:05:08	586	1.8	-0.7	-2.5	32	16.71
18-02-apr	7:05:08	586	8.7	6.5	-2.2	34	16.71
18-02-apr	8:05:08	586	11.7	11.9	0.2	35	16.71
18-02-apr	9:05:08	586	13.1	14.3	1.3	36	16.71
18-02-apr	10:05:08	586	14.6	16.0	1.4	36	16.72
18-02-apr	11:05:08	586	15.4	17.0	1.6	37	16.71
18-02-apr	12:05:08	585	16.2	18.0	1.9	37	16.71
18-02-apr	13:05:08	585	16.7	19.1	2.4	37	16.70
18-02-apr	14:05:08	585	15.4	16.9	1.5	37	16.70
18-02-apr	15:05:08	585	15.7	17.2	1.5	37	16.71
18-02-apr	16:05:08	585	14.1	14.7	0.7	37	16.71
18-02-apr	17:05:08	585	13.4	13.3	-0.1	37	16.72
18-02-apr	18:05:08	585	12.3	11.8	-0.5	37	16.71
18-02-apr	19:05:08	585	10.3	9.3	-1.0	37	16.71
18-02-apr	20:05:08	585	7.5	6.7	-0.8	37	16.70
18-02-apr	21:05:08	586	8.3	7.8	-0.5	37	16.71
18-02-apr	22:05:08	587	5.2	5.3	0.1	37	16.70
18-02-apr	23:05:08	587	3.6	3.1	-0.5	36	16.72

<b>BGI PQ200 Air Sar</b>	nplin	g System	Downloaded :	2018 10 apr 11:	34:24
Job Details:  Job Name: 18Apr10E.JOB  Version: 5.62  Serial No: 2398  Pump Time: 934:22		Job Code: Site Name: Station Code: Operators: User1:		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ÿÿÿÿ
Flags:    Max   Min   Avg   Units	Start:	Date dd-mmm 18-08-apr 18-09-apr	Time hh:mm:ss 0:00:08 0:00:05	Mass Concent Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol:  Mass Conc:	
Notes 2:					
Overheat, TF-					

18-08-apr	0:05:08	587	9.2	8.0	-1.2	29	16.71
18-08-apr	1:05:08	587	5.9	5.5	-0.4	29	16.72
18-08-apr	2:05:08	587	4.8	3.5	-1.3	29	16.71
18-08-apr	3:05:08	587	4.6	2.6	-2.0	29	16.71
18-08-apr	4:05:08	587	2.2	1.4	-0.8	29	16.72
18-08-apr	5:05:08	587	1.0	-0.2	-1.2	29	16.71
18-08-apr	6:05:08	588	8.0	-0.1	-0.9	29	16.71
18-08-apr	7:05:08	588	4.6	3.7	-0.8	30	16.71
18-08-apr	8:05:08	589	10.1	10.1	0.0	31	16.71
18-08-apr	9:05:08	589	10.8	12.7	1.9	32	16.71
18-08-apr	10:05:08	590	12.2	14.3	2.1	32	16.71
18-08-apr	11:05:08	590	13.2	15.4	2.2	32	16.71
18-08-apr	12:05:08	590	13.8	15.6	1.7	32	16.72
18-08-apr	13:05:08	590	15.4	16.9	1.5	32	16.71
18-08-apr	14:05:08	590	14.9	16.8	2.0	32	16.71
18-08-apr	15:05:08	590	15.0	17.0	2.0	32	16.71
18-08-apr	16:05:08	590	14.5	16.2	1.7	32	16.71
18-08-apr	17:05:08	590	13.8	14.8	1.0	32	16.71
18-08-apr	18:05:08	590	11.4	11.4	-0.1	31	16.71
18-08-apr	19:05:08	591	6.1	6.3	0.2	31	16.71
18-08-apr	20:05:08	591	4.2	3.3	-0.9	30	16.72
18-08-apr	21:05:08	591	3.9	2.6	-1.3	30	16.71
18-08-apr	22:05:08	592	1.4	0.6	-0.8	30	16.71
18-08-apr	23:05:08	592	2.0	0.6	-1.4	30	16.71

	BGI PQ200	Air San	nplir	ng Systen	n Downloaded 2	2018 10 apr 11	:34:24
Job D	etails:			Job Code	e:		
0000	Job Name: 18/	Apr10E.JOB		Site Name			
	Version:	5.62		Station Code			
		2398		Operators			
		34:22				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ÿÿÿÿ
	Flags:					//////////////////////////////////////	
		Avg Units	Timer	Information:		Mass Concent	
BP	592 585	589 mmHg				Filter ID:	32
TA	16.6 0	8.2 °C	275	Date	Time	Final Wt:	mg
Q		16.71 Lpm		dd-mmm	hh:mm:ss	Initial Wt:	mg
_			Start:	18-08-apr	0:00:08	Delta Wt:	0.000 mg
QCV		0.55 %		18-09-apr	0:00:05	Total Vol:	24.041 m^3
	verheat	3 °C					
	occured 08-apr 11:	17:40	ET:	23:59		Mass Conc:	0 µg/m3
	Notes 1:					-	
	Notes 2:						
	Temps, 'C						TA
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	0	5	1	0 Elapsed Time, Hrs	15	20	25
	Overheat, TF-						
5	TA, 'C						
3							
2		-	MM	WWW WWW	my Vamor		
1 0	I.V.		N		1	$\triangle A \triangle A$	
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-2 -3	, MM	1				V	
-4			-				- 7
-5	•	5	1	0	15	20	25
	0	•	11	Elapsed Time, Hrs			
	SP, cmH20						
15	50						
12	20						
9	90						
	50						
3	30						
	0 +	5		10	15	20	25
	U	5		Elapsed Time, Hrs			

18-08-apr	0:05:08	587	9.2	8.0	-1.2	29	16.71
18-08-apr	1:05:08	587	5.9	5.5	-0.4	29	16.72
18-08-apr	2:05:08	587	4.8	3.5	-1.3	29	16.71
18-08-apr	3:05:08	587	4.6	2.6	-2.0	29	16.71
18-08-apr	4:05:08	587	2.2	1.4	-0.8	29	16.72
18-08-apr	5:05:08	587	1.0	-0.2	-1.2	29	16.71
18-08-apr	6:05:08	588	8.0	-0.1	-0.9	29	16.71
18-08-apr	7:05:08	588	4.6	3.7	-0.8	30	16.71
18-08-apr	8:05:08	589	10.1	10.1	0.0	31	16.71
18-08-apr	9:05:08	589	10.8	12.7	1.9	32	16.71
18-08-apr	10:05:08	590	12.2	14.3	2.1	32	16.71
18-08-apr	11:05:08	590	13.2	15.4	2.2	32	16.71
18-08-apr	12:05:08	590	13.8	15.6	1.7	32	16.72
18-08-apr	13:05:08	590	15.4	16.9	1.5	32	16.71
18-08-apr	14:05:08	590	14.9	16.8	2.0	32	16.71
18-08-apr	15:05:08	590	15.0	17.0	2.0	32	16.71
18-08-apr	16:05:08	590	14.5	16.2	1.7	32	16.71
18-08-apr	17:05:08	590	13.8	14.8	1.0	32	16.71
18-08-apr	18:05:08	590	11.4	11.4	-0.1	31	16.71
18-08-apr	19:05:08	591	6.1	6.3	0.2	31	16.71
18-08-apr	20:05:08	591	4.2	3.3	-0.9	30	16.72
18-08-apr	21:05:08	591	3.9	2.6	-1.3	30	16.71
18-08-apr	22:05:08	592	1.4	0.6	-0.8	30	16.71
18-08-apr	23:05:08	592	2.0	0.6	-1.4	30	16.71

	mpling System Downloaded 2018 23 apr 13:33:35
Job Details:	Job Code:
Job Name: 18Apr23E.JOB	
Version: 5.62	Station Code:
Serial No: 2366	Operators: KN
Pump Time: 3300:08	User1: ÿÿyÿyÿyÿyÿyÿyÿyÿyÿyÿyÿyÿyÿyÿyÿy
Flags:	User2: \(vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv
Max Min Avg Units	Timer Information: Mass Concentration Data:
BP <u>591 582 586</u> mmHg	
TA 9.1 -6.1 1.9 °C	Date Time mg
Q 16.7 Lpm	dd-mmm hh:mm:ss Initial Wt: mg
	Start: 18-20-apr 0:00:08 Delta Wt: 0.000 mg
QCV 0.53 %	Stop: 18-21-apr 0:00:05 Total Vol: 24.041 m^3
Max overheat 3.2 °C	
occured 20-apr 13:10:24	ET: 23:59 Mass Conc: 0 µg/m3
Notes 1:	
Notes 2:	
Temps, 'C	— TA
10	
5	in the second second
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mm m	
5	
-10	
0 5	10 15 20 25
	Elapsed Time, Hrs
Overheat, TF- TA, 'C	
5 TA, C	
3	
2	
0 1	
1 1 1	
-2	
-2	
-3	
-4	10 15 20 25
-4	10 15 20 25 Elapsed Time, Hrs
-4 -5 0 5	
-4	
-4 -5 0 5 SP, cmH20	
-4 -5 0 5 SP, cmH20	
-4 -5 0 5 SP, cmH20 120 90	
-4 -5 0 5 SP, cmH20	
-4 -5 0 5 SP, cmH20 120 90	
-4 -5 0 5 SP, cmH20 120 90 60	

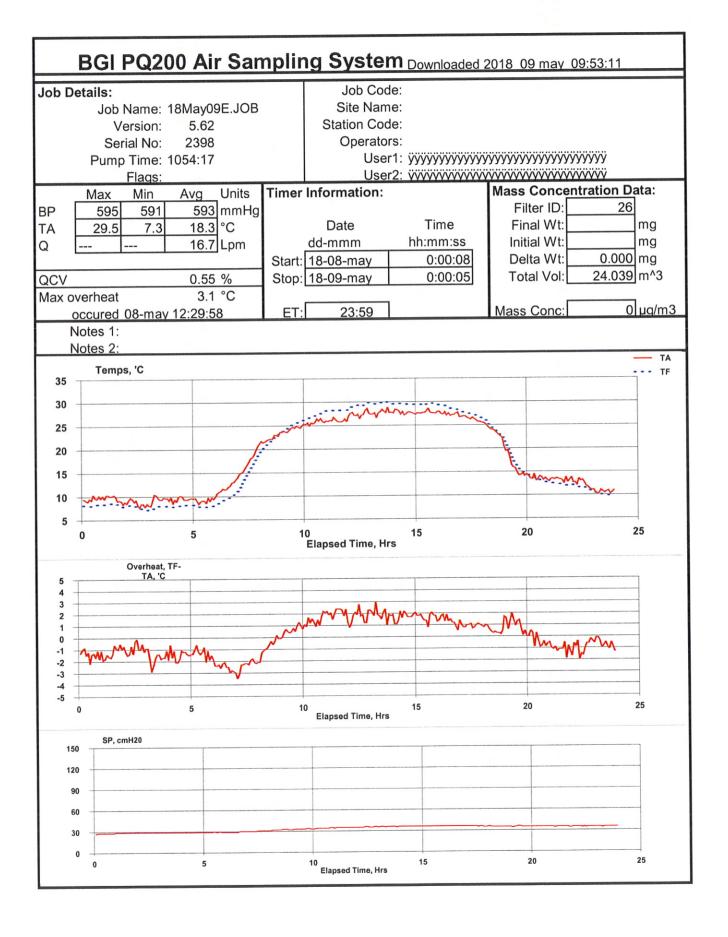
18-20-apr	0:05:08	584	-2.6	-3.6	-1.0	31	16.71
18-20-apr	1:05:08	584	-3.8	-4.7	-0.8	31	16.71
18-20-apr	2:05:08	584	-5.2	-5.9	-0.8	32	16.71
18-20-apr	3:05:08	584	-3.3	-4.4	-1.1	32	16.71
18-20-apr	4:05:08	583	-1.5	-2.3	-0.8	33	16.72
18-20-apr	5:05:08	583	-1.2	-1.4	-0.2	33	16.71
18-20-apr	6:05:08	584	-1.1	-1.2	-0.1	33	16.71
18-20-apr	7:05:08	584	-0.8	-0.7	0.1	33	16.72
18-20-apr	8:05:08	584	0.2	0.7	0.5	34	16.72
18-20-apr	9:05:08	585	3.6	4.3	0.7	34	16.70
18-20-apr	10:05:08	585	3.4	4.6	1.3	34	16.71
18-20-apr	11:05:08	586	3.8	4.0	0.2	34	16.72
18-20-apr	12:05:08	586	6.0	6.6	0.6	35	16.70
18-20-apr	13:05:08	588	2.1	2.8	0.7	35	16.72
18-20-apr	14:05:08	588	5.7	5.9	0.2	35	16.71

BGI PQ200 Air San	npling System Downloaded	2018 27 apr 09:19:31
Job Details: Job Name: 18Apr27E.JOB Version: 5.62 Serial No: 2398 Pump Time: 1006:19 Flags:	Job Code: Site Name: Station Code: Operators: User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ	
Max Min Avg Units BP 595 591 592 mmHg TA 25.1 5.4 14.9 °C Lpm QCV 0.53 % Max overheat 3.6 °C	Timer Information:	Mass Concentration Data: Filter ID: 8 Final Wt: mg Initial Wt: 0.000 Total Vol: 24.04 m^3 Mass Conc: 0 µg/m3
occured 26-apr 13:08:04 Notes 1:	E1. 23.59	Wass Conc.
Notes 2: Temps, 'C 30 25	in Ammin	— TA
20	in many with	i Vingy
15		hann
5		. s. s. Liner
0 5	10 15 Elapsed Time, Hrs	20 25
Overheat, TF- TA, 'C 4 3 2 1 0 -1 -2 -3 -4 -5 0 5	10 Elapsed Time, Hrs	20 25
SP, cmH20 120 90 60 30 0 5	10 15 Elapsed Time, Hrs	20 25

18-26-apr	0:05:08	593	7.6	6.5	-1.1	26	16.71
18-26-apr	1:05:08	593	7.6	6.2	-1.4	26	16.71
18-26-apr	2:05:08	593	7.6	6.2	-1.4	26	16.71
18-26-apr	3:05:08	593	7.1	6.1	-1.0	27	16.71
18-26-apr	4:05:08	593	6.8	5.4	-1.3	26	16.71
18-26-apr	5:05:08	593	6.2	4.8	-1.4	27	16.72
18-26-apr	6:05:08	593	9.7	7.9	-1.8	27	16.71
18-26-apr	7:05:08	594	14.8	13.9	-0.9	28	16.72
18-26-apr	8:05:08	594	16.8	17.6	0.8	29	16.71
18-26-apr	9:05:08	594	19.4	20.8	1.4	29	16.70
18-26-apr	10:05:08	594	20.8	22.7	1.9	30	16.71
18-26-apr	11:05:08	594	21.8	23.5	1.7	30	16.71
18-26-apr	12:05:08	594	22.7	24.4	1.8	30	16.71
18-26-apr	13:05:08	593	23.0	25.2	2.3	31	16.71
18-26-apr	14:05:08	593	23.5	26.0	2.5	31	16.72
18-26-apr	15:05:08	592	23.3	25.5	2.3	31	16.71
18-26-apr	16:05:08	592	22.6	23.9	1.3	31	16.70
18-26-apr	17:05:08	592	21.1	21.9	0.9	31	16.70
18-26-apr	18:05:08	592	19.3	19.9	0.6	31	16.72
18-26-apr	19:05:08	592	15.1	15.2	0.1	31	16.71
18-26-apr	20:05:08	593	10.7	10.5	-0.2	30	16.71
18-26-apr	21:05:08	593	10.3	9.1	-1.2	30	16.71
18-26-apr	22:05:08	593	9.1	7.8	-1.3	30	16.71
18-26-apr	23:05:08	593	9.5	7.7	-1.8	30	16.71

BGI PQ200 Air San	mpling System Downloaded 2018 04 may 13:09:53
Job Details: Job Name: 18May04E.JOB Version: 5.62 Serial No: 2398 Pump Time: 1030:18 Flags:	Station Code: Operators: User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
Max Min Avg Units BP 590 583 586 mmHg TA 4.5 -0.3 1.8 °C Q 16.71 Lpm QCV 0.54 %	Timer Information: Mass Concentration Data: Filter ID:
Max overheat 3.7 °C occured 03-may 13:52:01 Notes 1: Notes 2:	ET: 23:59 Mass Conc: 0 µg/m3
Temps, 'C 6 5 4 3 2 1 0 5 Overheat, TF- TA, 'C 4 3 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TA TF 10 15 20 25 Elapsed Time, Hrs
-1 -2 -3 -4 -5 0 5	10 15 20 25 Elapsed Time, Hrs
SP, cmH20 120 90 60 30 0 5	10 Elapsed Time, Hrs

18-02-may	0:05:08	585	1.1	0.3	-0.7	27	16.72
18-02-may	1:05:08	585	1.1	0.4	-0.7	28	16.72
18-02-may	2:05:08	585	0.9	0.2	-0.6	28	16.72
18-02-may	3:05:08	585	0.3	-0.2	-0.5	28	16.71
18-02-may	4:05:08	585	-0.1	-0.8	-0.7	28	16.72
18-02-may	5:05:08	585	0.3	-0.5	-0.8	28	16.71
18-02-may	6:05:08	586	1.1	0.3	-0.7	28	16.72
18-02-may	7:05:08	586	1.4	1.0	-0.4	28	16.72
18-02-may	8:05:08	586	2.4	2.2	-0.2	29	16.71
18-02-may	9:05:08	586	2.8	3.0	0.3	29	16.71
18-02-may	10:05:08	587	3.8	4.8	1.0	29	16.72
18-02-may	11:05:08	587	3.4	4.7	1.3	29	16.71
18-02-may	12:05:08	587	1.2	1.8	0.5	29	16.71
18-02-may	13:05:08	587	1.5	1.7	0.2	29	16.70
18-02-may	14:05:08	587	2.7	3.1	0.5	29	16.71
18-02-may	15:05:08	587	3.4	3.7	0.2	29	16.71
18-02-may	16:05:08	587	3.2	3.1	0.0	29	16.72
18-02-may	17:05:08	588	1.9	1.9	0.0	30	16.70
18-02-may	18:05:08	588	1.2	1.0	-0.2	30	16.71
18-02-may	19:05:08	589	1.6	1.1	-0.5	30	16.70
18-02-may	20:05:08	589	1.6	1.1	-0.6	30	16.71
18-02-may	21:05:08	589	2.1	1.4	-0.7	30	16.71
18-02-may	22:05:08	590	2.0	1.5	-0.5	30	16.73
18-02-may	23:05:08	590	1.8	1.3	-0.5	30	16.71



18-08-may	0:05:08	593	9.6	8.2	-1.4	28	16.71
18-08-may	1:05:08	593	9.5	8.3	-1.2	29	16.71
18-08-may	2:05:08	593	8.6	7.6	-0.9	29	16.71
18-08-may	3:05:08	594	9.5	7.7	-1.7	29	16.72
18-08-may	4:05:08	594	9.4	8.0	-1.4	29	16.71
18-08-may	5:05:08	594	9.2	7.8	-1.3	29	16.71
18-08-may	6:05:08	594	12.1	9.5	-2.6	29	16.70
18-08-may	7:05:08	594	17.6	15.3	-2.3	31	16.70
18-08-may	8:05:08	595	22.4	21.7	-0.7	32	16.71
18-08-may	9:05:08	595	24.5	25.1	0.6	33	16.71
18-08-may	10:05:08	595	25.7	27.2	1.4	34	16.71
18-08-may	11:05:08	595	26.1	28.2	2.1	35	16.71
18-08-may	12:05:08	594	27.5	29.3	1.8	35	16.71
18-08-may	13:05:08	594	27.8	29.7	1.9	36	16.71
18-08-may	14:05:08	594	27.7	29.5	1.7	36	16.71
18-08-may	15:05:08	593	27.8	29.4	1.6	36	16.71
18-08-may	16:05:08	593	27.4	28.7	1.4	36	16.71
18-08-may	17:05:08	593	26.3	27.2	0.9	36	16.71
18-08-may	18:05:08	593	23.6	24.2	0.6	35	16.71
18-08-may	19:05:08	593	16.0	17.0	1.0	35	16.71
18-08-may	20:05:08	593	13.6	13.2	-0.3	35	16.72
18-08-may	21:05:08	593	13.3	12.1	-1.2		16.71
18-08-may	22:05:08	593	12.2	11.3	-0.9		16.72
18-08-may	23:05:08	593	10.6	9.9	-0.7	35	16.71

Q 16.7 Lpm dd-mmm hh:mm:ss Initial Wt: mg Start: 18-14-may 0:00:08 Delta Wt: 0.000 mg QCV 0.52 % Stop: 18-15-may 0:00:05 Total Vol: 24.037 m^3	BGI PQ200 Air Sar	npling System Downloaded 2018 15 may 11:06:31
Job Name: 18May15E.JOB Site Name: Station Code: Operators: User1: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy	Job Details:	Job Code:
Version: 5.62 Station Code: Operators: User1:		
Pump Time: 1078:16 User1: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy		Station Code:
Pump Time: 1078:16 User1: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy	Serial No: 2398	Operators:
Max Min Avg Units Filter ID: 32 Final Wt: mg Mass Concentration Data: Filter ID: 32 Final Wt: mg Mass overheat 3.6 °C occured 14-may 10:26:31 ET: 23:59 Mass Concentration Data: Filter ID: 32 Final Wt: mg Mg Delta Wt: 0.000 mg Total Vol: 24.037 m^3 Mass Conc: 0 μα/m3 Mass Conc: 0 μα/m3 Mass Conc: 15 10 10 10 10 10 10 10		User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
Section Sect	Flags:	
TA 19.9 1.8 11.4 °C dd-mmm hh:mm:ss Start: 18-14-may 0:00:08 Stop: 18-15-may 0:00:05 Max overheat 3.6 °C occured 14-may 10:26:31 ET: 23:59 Mass Conc: 0 µq/m3 Notes 1: Notes 2:		Times internation
Company Comp		
Start: 18-14-may 0:00:08 Stop: 18-15-may 0:00:05 Total Vol: 24.037 m^3		
QCV 0.52 % Stop: 18-15-may 0:00:05 Total Vol: 24.037 m^3 Max overheat 3.6 °C occured 14-may 10:26:31 ET: 23:59 Mass Conc: 0 μg/m3 Notes 1: Notes 2:	Q 16.7 Lpm	
Max overheat 3.6 °C occured 14-may 10:26:31 ET: 23:59 Mass Conc: 0 μg/m3 Notes 1: Notes 2:		
Occured 14-may 10:26:31 ET: 23:59 Mass Conc: 0 µg/m3 Notes 1: Notes 2:		Stop: [18-15-may 0:00:05] Total Vol: [24.037] m^3
Notes 1: Notes 2: 25 20 15 10 5		Mass Canal 01.15/m2
Notes 2: 25 20 15 10 5		E1: 23:59
25 20 15 10 5		
20 15 10 5	Notes 2:	
20 15 10 5	25	
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0 5 10 15 20 25	0	
	0 5	10 15 20 25
Overheat, TF-	Overheat TE-	
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18-14-may	0:05:08	589	5.2	4.4	-0.8	24	16.71
18-14-may	1:05:08	588	4.2	3.6	-0.6	25	16.71
18-14-may	2:05:08	589	2.5	2.0	-0.5	25	16.71
18-14-may	3:05:08	589	2.4	1.3	-1.1	24	16.70
18-14-may	4:05:08	589	3.4	2.0	-1.4	25	16.70
18-14-may	5:05:08	589	2.7	1.8	-1.0	25	16.70
18-14-may	6:05:08	589	7.7	5.7	-2.0	25	16.72
18-14-may	7:05:08	590	11.4	11.5	0.1	27	16.71
18-14-may	8:05:08	590	12.7	14.1	1.3	27	16.71
18-14-may	9:05:08	590	14.4	15.8	1.5	28	16.71
18-14-may	10:05:08	590	15.4	17.2	1.8	28	16.71
18-14-may	11:05:08	591	16.0	17.8	1.8	28	16.72
18-14-may	12:05:08	590	17.2	18.6	1.4	28	16.70
18-14-may	13:05:08	590	17.9	20.1	2.2	29	16.71
18-14-may	14:05:08	590	18.1	20.1	2.1	29	16.70
18-14-may	15:05:08	589	18.1	19.8	1.7	29	16.70
18-14-may	16:05:08	589	18.1	19.9	1.8	29	16.71
18-14-may	17:05:08	589	17.6	18.9	1.3	29	16.71
18-14-may	18:05:08	589	17.1	18.0	0.9	29	16.71
18-14-may	19:05:08	589	11.6	12.6	1.0	28	16.71
18-14-may	20:05:08	589	9.1	8.4	-0.7	28	16.70
18-14-may	21:05:08	590	10.5	8.9	-1.6	28	16.71
18-14-may	22:05:08	590	9.9	8.7	-1.2	28	16.71
18-14-may	23:05:08	590	9.2	8.2	-1.1	28	16.68

BGI PQ200 Air San	nplir	ng Systen	1 Downloaded 2	2018 22 may 12	2:29:03
Job Details: Job Name: 18May22E.JOB Version: 5.62 Serial No: 2398 Pump Time: 1102:15 Flags:			e: e: s: l: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿ	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ	
Max Min Avg Units BP 590 587 588 mmHg TA 22.6 6 14.1 Q 1 16.7 Lpm QCV 0.55 % Max overheat 3.7 °C occured 20-may 10:41:15 Notes 1:	Start:	Date dd-mmm 18-20-may 18-21-may	Time hh:mm:ss 0:00:08 0:00:05	Mass Concent Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol: Mass Conc:	
Notes 2:	<i>,/</i>				
Overheat, TF-					

0:05:08	589	9.2	8.4	-0.8	28	16.72
1:05:08	589	8.3	7.2	-1.2	28	16.71
2:05:08	589	8.3	6.9	-1.3	28	16.71
3:05:08	589	7.4	6.3	-1.1	28	16.71
4:05:08	589	7.1	5.7	-1.4	28	16.71
5:05:08	589	7.0	5.8	-1.2	28	16.71
6:05:08	590	10.6	9.5	-1.1	29	16.71
7:05:08	590	15.7	15.4	-0.3	30	16.71
8:05:08	590	17.7	19.0	1.3	30	16.71
9:05:08	590	18.7	20.4	1.7	31	16.72
10:05:08	590	20.2	22.4	2.1	31	16.71
11:05:08	589	20.1	21.8	1.7	31	16.71
12:05:08	589	20.6	21.8	1.3	31	16.70
13:05:08	589	20.9	22.0	1.2	31	16.71
14:05:08	589	20.8	21.7	0.9	31	16.71
15:05:08	589	20.2	21.8	1.7	31	16.72
16:05:08	588	18.9	20.3	1.3	31	16.70
17:05:08	588	18.5	19.2	0.7	31	16.71
18:05:08	588	17.2	18.4	1.2	31	16.71
19:05:08	588	13.6	13.4	-0.2	30	16.71
20:05:08	588	10.2	10.4	0.2	30	16.71
21:05:08	588	8.9	8.3	-0.7	30	16.71
22:05:08	589	8.8	7.8	-1.1	30	16.71
23:05:08	589	8.2	7.4	-0.8	30	16.72
	1:05:08 2:05:08 3:05:08 4:05:08 5:05:08 6:05:08 7:05:08 8:05:08 9:05:08 10:05:08 11:05:08 12:05:08 15:05:08 16:05:08 17:05:08 17:05:08 19:05:08 20:05:08 21:05:08	1:05:08 589 2:05:08 589 3:05:08 589 4:05:08 589 5:05:08 589 6:05:08 590 7:05:08 590 8:05:08 590 9:05:08 590 10:05:08 590 11:05:08 589 12:05:08 589 13:05:08 589 15:05:08 589 15:05:08 589 16:05:08 588 17:05:08 588 18:05:08 588 19:05:08 588 20:05:08 588 21:05:08 589	1:05:08 589 8.3 2:05:08 589 8.3 3:05:08 589 7.4 4:05:08 589 7.1 5:05:08 589 7.0 6:05:08 590 10.6 7:05:08 590 15.7 8:05:08 590 17.7 9:05:08 590 18.7 10:05:08 590 20.2 11:05:08 589 20.1 12:05:08 589 20.6 13:05:08 589 20.9 14:05:08 589 20.8 15:05:08 589 20.2 16:05:08 589 20.2 16:05:08 588 18.9 17:05:08 588 18.5 18:05:08 588 13.6 20:05:08 588 10.2 21:05:08 589 8.8 22:05:08 589 8.8	1:05:08 589 8.3 7.2 2:05:08 589 8.3 6.9 3:05:08 589 7.4 6.3 4:05:08 589 7.1 5.7 5:05:08 589 7.0 5.8 6:05:08 590 10.6 9.5 7:05:08 590 15.7 15.4 8:05:08 590 17.7 19.0 9:05:08 590 18.7 20.4 10:05:08 590 20.2 22.4 11:05:08 589 20.1 21.8 12:05:08 589 20.1 21.8 13:05:08 589 20.9 22.0 14:05:08 589 20.2 21.8 16:05:08 589 20.2 21.8 16:05:08 589 20.2 21.8 16:05:08 588 18.9 20.3 17:05:08 588 18.5 19.2 18:05:08 588 13.6 13.4 20:05:08 588 10.2 10.4	1:05:08 589 8.3 7.2 -1.2 2:05:08 589 8.3 6.9 -1.3 3:05:08 589 7.4 6.3 -1.1 4:05:08 589 7.1 5.7 -1.4 5:05:08 589 7.0 5.8 -1.2 6:05:08 590 10.6 9.5 -1.1 7:05:08 590 15.7 15.4 -0.3 8:05:08 590 17.7 19.0 1.3 9:05:08 590 18.7 20.4 1.7 10:05:08 590 20.2 22.4 2.1 11:05:08 589 20.1 21.8 1.7 12:05:08 589 20.6 21.8 1.3 12:05:08 589 20.8 21.7 0.9 15:05:08 589 20.2 21.8 1.7 16:05:08 589 20.2 21.8 1.7 16:05:08 589 20.2 21.8 1.7 16:05:08 588 18.5 19.2 0.7	1:05:08 589 8.3 7.2 -1.2 28 2:05:08 589 8.3 6.9 -1.3 28 3:05:08 589 7.4 6.3 -1.1 28 4:05:08 589 7.0 5.8 -1.2 28 6:05:08 590 10.6 9.5 -1.1 29 7:05:08 590 15.7 15.4 -0.3 30 8:05:08 590 17.7 19.0 1.3 30 9:05:08 590 18.7 20.4 1.7 31 10:05:08 590 20.2 22.4 2.1 31 11:05:08 589 20.1 21.8 1.7 31 12:05:08 589 20.1 21.8 1.7 31 12:05:08 589 20.6 21.8 1.3 31 13:05:08 589 20.9 22.0 1.2 31 14:05:08 589 20.8 21.7 0.9 31 15:05:08 588 18.9 20.3 <

BGI PQ200 Air Sampling System Downloaded 2018 29 may 11:15:34 Job Code: Job Details: Job Name: 18May29E.JOB Site Name: Station Code: 5.62 Version: Serial No: 2398 Operators: User1: ÿÿyÿyyyyyyyyyyyyyyyyyyyyyyyyyyyyy Pump Time: 1126:14 Flags: Mass Concentration Data: Min Avg Units Timer Information: Max Filter ID: 588 mmHg BP 585 590 Time Final Wt: Date TA 22.5 0.6 12.3 °C ma dd-mmm hh:mm:ss Initial Wt: mg 16.71 Lpm Q 0.000 mg 0:00:08 Delta Wt: Start: 18-26-may 24.04 m^3 Stop: 18-27-may 0:00:05 Total Vol: QCV 0.53 % 3.8 °C Max overheat 0 ug/m3 23:59 Mass Conc: occured 28-may 13:52:08 ET: Notes 1: Notes 2: TA Temps, 'C TF 25 20 15 10 5 0 -5 10 Elapsed Time, Hrs 15 20 25 5 Overheat, TF-3 0 -1 -2 -3 -4 -5 25 10

18-26-may	0:05:08	589	3.7	2.9	-0.8	30	16.72
18-26-may	1:05:08	589	3.1	1.7	-1.4	31	16.71
18-26-may	2:05:08	589	2.4	1.1	-1.3	31	16.71
18-26-may	3:05:08	589	2.4	0.9	-1.5	31	16.71
18-26-may	4:05:08	589	2.4	0.4	-2.1	31	16.71
18-26-may	5:05:08	588	2.2	0.5	-1.7	31	16.71
18-26-may	6:05:08	588	11.0	7.8	-3.1	32	16.72
18-26-may	7:05:08	589	14.6	14.3	-0.3	34	16.71
18-26-may	8:05:08	589	15.8	16.6	0.7	35	16.71
18-26-may	9:05:08	589	16.5	17.5	1.0	35	16.72
18-26-may	10:05:08	589	17.6	18.6	0.9	35	16.71
18-26-may	11:05:08	588	18.5	19.6	1.0	35	16.71
18-26-may	12:05:08	588	19.6	20.2	0.6	35	16.71
18-26-may	13:05:08	588	20.4	21.3	0.8	36	16.70
18-26-may	14:05:08	587	21.2	22.5	1.3	36	16.70
18-26-may	15:05:08	586	21.3	23.0	1.7	36	16.70
18-26-may	16:05:08	586	19.5	21.0	1.4	36	16.71
18-26-may	17:05:08	587	17.5	18.2	0.7	36	16.71
18-26-may	18:05:08	587	17.0	18.0	1.0	36	16.71
18-26-may	19:05:08	587	13.9	14.2	0.2	35	16.71
18-26-may	20:05:08	587	12.4	11.8	-0.6	35	16.71
18-26-may	21:05:08	588	9.6	9.2	-0.4	35	16.70
18-26-may	22:05:08	588	7.5	7.6	0.1	35	16.71
18-26-may	23:05:08	588	4.6	4.7	0.1	35	16.71

BGI PQ200 Air Sai	mpling System Downloaded 2018 04 jun 15	26:47
Job Details: Job Name: 18Jun04E.JOB Version: 5.62 Serial No: 2398 Pump Time: 1150:13 Flags:	Station Code: Operators: User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ	ŸŸŸŸ
Max Min Avg Units BP 595 587 592 mmHg TA 25.5 3.7 16.1 °C Q 16.7 Lpm	Date Time Final Wt: dd-mmm hh:mm:ss Initial Wt: Start: 18-01-jun 0:00:08 Delta Wt:	42 mg mg 0.000 mg
QCV 0.54 % Max overheat 5.7 °C	Stop: 18-02-jun 0:00:05 Total Vol:	24.041 m^3 0 µg/m3
Notes 1:		— та
Temps, 'C 30 25 20 15	marking the same of the same o	TF
10 5 0 0 0 5	10 15 20	25
Overheat, TF-	Elapsed Time, Hrs	
4 TA, 'C 2	mymymymmmy	
2 4	M m	hap.
-6 0 5	10 15 20 Elapsed Time, Hrs	25
SP, cmH20		
90		
30	10 15 20	25
0 5	10 15 20 Elapsed Time, Hrs	23

18-01-jun	0:05:08	589	12.2	11.6	-0.6	26	16.71
18-01-jun	1:05:08	589	5.4	6.7	1.3	26	16.71
18-01-jun	2:05:08	589	5.4	4.6	-0.7	26	16.71
18-01-jun	3:05:08	589	4.8	3.9	-1.0	26	16.71
18-01-jun	4:05:08	590	4.3	3.3	-1.0	26	16.71
18-01-jun	5:05:08	590	5.3	3.4	-1.9	26	16.70
18-01-jun	6:05:08	591	10.5	6.7	-3.8	26	16.71
18-01-jun	7:05:08	592	15.0	12.7	-2.3	27	16.71
18-01-jun	8:05:08	592	17.0	16.9	-0.2	28	16.71
18-01-jun	9:05:08	592	18.5	19.6	1.1	29	16.71
18-01-jun	10:05:08	592	19.9	21.0	1.1	29	16.71
18-01-jun	11:05:08	593	21.2	22.5	1.3	29	16.71
18-01-jun	12:05:08	593	22.6	23.6	1.0	30	16.71
18-01-jun	13:05:08	593	23.2	24.6	1.4	30	16.70
18-01-jun	14:05:08	593	24.0	25.3	1.3	30	16.71
18-01-jun	15:05:08	593	24.4	25.7	1.3	30	16.71
18-01-jun	16:05:08	593	24.6	25.8	1.2	30	16.71
18-01-jun	17:05:08	593	24.2	25.2	1.0	30	16.71
18-01-jun	18:05:08	593	22.2	23.6	1.3	30	16.71
18-01-jun	19:05:08	594	18.8	19.4	0.7	30	16.71
18-01-jun	20:05:08	594	17.0	16.5	-0.5	30	16.70
18-01-jun	21:05:08	594	16.0	15.0	-1.0	30	16.71
18-01-jun	22:05:08	595	14.5	13.8	-0.7	30	16.70
18-01-jun	23:05:08	595	14.4	13.0	-1.4	30	16.71

BGI PQ200 Air Sampling System Downloaded 2018 08 jun 12:23:29												
Job Details: Job Name: 18Jun08E.JOB Version: 5.62 Serial No: 2398 Pump Time: 1174:12			ÿÿÿÿÿÿÿÿÿÿÿÿÿ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
Flags: Wax Min Avg Units	Start:	Date dd-mmm 18-07-jun 18-08-jun	Time hh:mm:ss 0:00:08 0:00:05	Mass Concer Filter ID: Final Wt: Initial Wt: Delta Wt: Total Vol: Mass Conc:								
Notes 2:												
Overheat, TF-												

18-07-jun	0:05:08	590	10.2	8.9	-1.2	25	16.71
18-07-jun	1:05:08	590	9.4	8.3	-1.1	26	16.72
18-07-jun	2:05:08	590	8.8	7.7	-1.1	26	16.71
18-07-jun	3:05:08	590	7.9	7.0	-1.0	26	16.71
18-07-jun	4:05:08	591	6.9	6.0	-0.9	26	16.71
18-07-jun	5:05:08	591	7.7	6.2	-1.5	26	16.71
18-07-jun	6:05:08	591	14.0	11.9	-2.1	27	16.71
18-07-jun	7:05:08	592	19.2	18.4	-0.8	28	16.71
18-07-jun	8:05:08	593	20.7	21.5	0.7	29	16.71
18-07-jun	9:05:08	593	21.9	23.2	1.3	30	16.71
18-07-jun	10:05:08	593	23.1	24.5	1.4	30	16.71
18-07-jun	11:05:08	593	23.8	25.1	1.4	30	16.71
18-07-jun	12:05:08	593	24.8	25.9	1.1	30	16.71
18-07-jun	13:05:08	592	25.8	27.1	1.2	31	16.71
18-07-jun	14:05:08	592	26.5	28.0	1.5	31	16.72
18-07-jun	15:05:08	592	26.7	28.3	1.6	31	16.71
18-07-jun	16:05:08	592	26.6	27.9	1.4	32	16.71
18-07-jun	17:05:08	592	25.8	27.0	1.2	31	16.71
18-07-jun	18:05:08	592	23.2	23.4	0.1	31	16.71
18-07-jun	19:05:08	592	20.3	20.1	-0.2	31	16.71
18-07-jun	20:05:08	592	14.9	15.5	0.5	31	16.71
18-07-jun	21:05:08	593	13.1	12.7	-0.5	31	16.71
18-07-jun	22:05:08	593	12.4	11.6	-0.8	30	16.71
18-07-jun	23:05:08	593	11.3	10.5	-0.8	30	16.71

BGI PQ200 Air Sampling System Downloaded 2018 14 jun 14:29:58												
Job Details: Job Name: 18Jun14E.	.JOB		ne: 2398E									
Version: 5.62		Station Cod										
Serial No: 2398		Operato										
Pump Time: 1198:11		Use	r1: ÿÿÿÿÿÿÿÿÿÿÿÿÿ	ууууууууууууууууу	γÿÿ							
Flags:				<u> </u>								
Max Min Avg U	Inits Timer	Information:		Mass Concentra	tion Data:							
BP 593 590 591 m	nmHg			Filter ID:	26							
TA 32.1 10.1 21.3 °C		Date	Time	Final Wt:	mg							
Q 16.71 L	pm	dd-mmm	hh:mm:ss	Initial Wt:	mg							
		18-13-jun	0:00:08	Delta Wt:	0.000 mg							
QCV 0.54 %		18-14-jun	0:00:05	Total Vol:	24.041 m^3							
Max overheat 3.3 °C			- 7									
occured 13-jun 15:01:02	ET:	23:59	-	Mass Conc:	0 µg/m3							
Notes 1:												
Notes 2:												
Temps, 'C	AND THE PARTY OF T				— ТА ТF							
35												
30	- ~ ~	mystim	whom									
25	المنتهي		<u> </u>	~ iq								
23	J. C.			1								
20	/											
15	<i>(-</i> -			Con								
10				شنعور	ستس							
5												
0 5	10) Elapsed Time, Hr	15 s	20	25							
Overheat, TF- TA, 'C												
4			7. 2.									
3			M A									
1		$\sqrt{M}\sqrt{M}\sqrt{M}$	M halow	~ /\								
· Man a · Ma	~~~	Ψ		and power								
-1	~				7.							
-3												
-4												
0 5	10	Elapsed Time, Hrs	15	20	25							
SP, cmH20												
150												
120												
90												
60												
30	~											
0												
0 5		10 Elapsed Time, Hrs	15	20	25							

18-13-jun	0:05:08	592	13.1	12.2	-0.9	27	16.71
18-13-jun	1:05:08	591	12.7	11.4	-1.3	27	16.71
18-13-jun	2:05:08	591	12.1	11.0	-1.1	27	16.71
18-13-jun	3:05:08	592	12.9	11.3	-1.6	27	16.71
18-13-jun	4:05:08	592	11.1	10.0	-1.1	27	16.71
18-13-jun	5:05:08	592	12.1	10.7	-1.4	27	16.71
18-13-jun	6:05:08	592	16.7	15.3	-1.4	28	16.71
18-13-jun	7:05:08	592	22.3	21.5	-0.8	29	16.71
18-13-jun	8:05:08	593	26.4	27.0	0.6	30	16.71
18-13-jun	9:05:08	593	27.8	29.5	1.7	31	16.72
18-13-jun	10:05:08	592	28.7	30.1	1.3	32	16.71
18-13-jun	11:05:08	592	29.4	30.2	0.9	32	16.70
18-13-jun	12:05:08	592	29.8	30.9	1.2	32	16.71
18-13-jun	13:05:08	592	30.6	32.1	1.6	33	16.72
18-13-jun	14:05:08	591	30.1	31.6	1.5	33	16.71
18-13-jun	15:05:08	591	29.9	31.6	1.7	34	16.71
18-13-jun	16:05:08	591	30.0	31.6	1.6	34	16.71
18-13-jun	17:05:08	591	28.5	29.9	1.3	34	16.71
18-13-jun	18:05:08	591	26.9	27.3	0.4	33	16.71
18-13-jun	19:05:08	591	23.1	23.7	0.6	33	16.71
18-13-jun	20:05:08	591	15.7	16.1	0.3	33	16.71
18-13-jun	21:05:08	591	14.3	13.7	-0.6	32	16.71
18-13-jun	22:05:08	591	12.9	12.1	-0.8	32	16.71
18-13-jun	23:05:08	591	11.8	10.8	-1.0	32	16.72

BGI PQ200 Air Sampling System Downloaded 2018 27 jun 15:16:38												
ata:	Mass Concentration Data			Timer	Units	5.62 2398 46:09 Avg	n: o:	Version erial No p Time Flags Min	Se Pump Max			
_	Initial Wt: mg Delta Wt: 0.000 mg	Time hh:mm:ss 0:00:08	Date dd-mmm 18-25-jun	Start:	Lpm	22.1 16.7	5		594 32.9	BP TA Q		
m^3 µg/m3	Total Vol: 24.04 m/	0:00:05	23:59	Stop:	°C				verheat			
ТА									Notes 1: Notes 2:			
TA		main	· · · · · · · · · · · · · · · · · · ·					ps, 'C	Temp	35		
	Nick of Let			min	J. F.					25		
	Far Viv					~~	w	www	ww	15 10		
5	20 25	15	0 Elapsed Time, Hrs	1		5		30	0	5		
						-		.:				
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	WM	Mymmy W	m	~							
	VW				M	<b>^</b> ~	ΜΛ	√ ¹ ረγ _γ ⁄M	<b>\</b> \\\			
	<u></u>	J					7					
	Frail Will	1.440	0 Elapsed Time, Hrs	1		5	·····	ps, 'C	Notes 1: Notes 2: Temp	35 30 25 20 15		

18-25-jun	0:05:08	592	13.5	12.1	-1.4	27	16.72
18-25-jun	1:05:08	592	13.4	12.0	-1.4	28	16.71
18-25-jun	2:05:08	592	12.7	11.4	-1.3	28	16.72
18-25-jun	3:05:08	593	11.9	10.7	-1.3	28	16.70
18-25-jun	4:05:08	593	11.4	10.1	-1.3	28	16.71
18-25-jun	5:05:08	593	12.5	11.0	-1.5	28	16.71
18-25-jun	6:05:08	593	16.2	15.2	-1.0	29	16.71
18-25-jun	7:05:08	594	22.0	21.3	-0.7	30	16.72
18-25-jun	8:05:08	594	25.3	26.1	0.8	31	16.71
18-25-jun	9:05:08	594	26.3	27.9	1.6	32	16.71
18-25-jun	10:05:08	594	27.6	28.8	1.2	33	16.70
18-25-jun	11:05:08	594	28.9	29.9	1.0	33	16.71
18-25-jun	12:05:08	593	30.0	31.0	1.0	34	16.72
18-25-jun	13:05:08	593	30.5	31.7	1.2	34	16.71
18-25-jun	14:05:08	593	31.6	33.1	1.5	34	16.71
18-25-jun	15:05:08	593	31.5	33.4	1.9	34	16.70
18-25-jun	16:05:08	593	30.5	32.2	1.7	34	16.71
18-25-jun	17:05:08	593	29.6	30.8	1.2	34	16.71
18-25-jun	18:05:08	593	28.4	29.4	1.0	34	16.72
18-25-jun	19:05:08	593	25.8	25.9	0.0	34	16.70
18-25-jun	20:05:08	593	18.6	19.2	0.6	34	16.71
18-25-jun	21:05:08	593	17.2	16.3	-0.9	33	16.71
18-25-jun	22:05:08	593	17.3	15.8	-1.4	33	16.72
18-25-jun	23:05:08	593	16.4	15.3	-1.1	33	16.72

### APPENDIX C

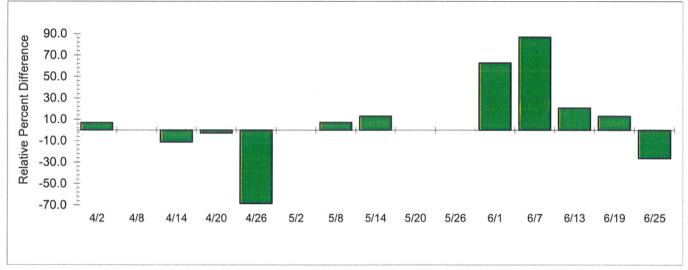
Precision and Single-Point Flow Rate Checks

### **Alton Coal Development Coal Hollow**

Precision Report For Collocated Samplers

STP PM10 Concentrations(µg/m³) April 1, 2018 - June 30, 2018

Date	4/2	4/8	4/14	4/20	4/26	5/2	5/8	5/14	5/20	5/26	6/1	6/7	6/13	6/19	6/25
Coal Hollow-B Coal Hollow-C		8.8	7.7 8.6	21.6 22.2	20.8 42.5	7.3	2000000	44.9 39.4	8.2	17.5	24.9 13.0		64.0 52.0	40.1 35.2	30.8 40.1
Rel. %Diff.	6.9	*	-11.0	-2.7	-68.6	*	7.2	13.0	*	*	62.8	86.8	20.7	13.0	-26.2
Relative Percen	t Differe	ence =	((X - Y)	/ ((X +	Y) / 2)) :	* 100		X=Coa	al Hollo	w-B		Y =Co	al Hollo	w-C	



Statistical Calcu	ulations:		
n=	11.0	S Dev=	41.1 %
Mean=	9.3	** CV=	41.7 %

^{*} Both sample concentrations must be greater than or equal to 3 µg/m³ to be used for these precision calculations. For a detailed discussion of these precision calculations, refer to 40 CFR 58, Appendix A.

^{**} CV - Upper 90% Confidence bound for Coefficient of Variation

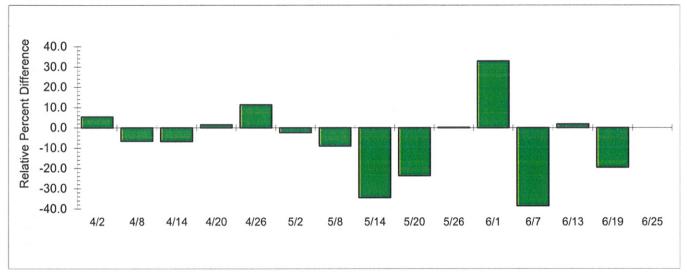
## **Alton Coal Development**

**Coal Hollow** 

Precision Report For Collocated Samplers

STP PM10 Concentrations(µg/m³) April 1, 2018 - June 30, 2018

Date	4/2	4/8	4/14	4/20	4/26	5/2	5/8	5/14	5/20	5/26	6/1	6/7	6/13	6/19	6/25
Coal Hollow-D Coal Hollow-E		8.8 9.4	8.6 9.2		70.8 63.2								410.1 402.6		146.7
Rel. %Diff.	5.4	-6.6	-6.7	1.5	11.3	-2.4	-9.0	-34.4	-23.6	0.2	32.9	-38.5	1.8	-19.5	*
Relative Percer	nt Differ	ence =	((X - Y)	/ ((X +	Y) / 2))	* 100		X=Coa	al Hollo	w-D		Y =Co	al Hollo	w-E	

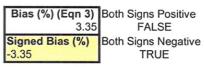


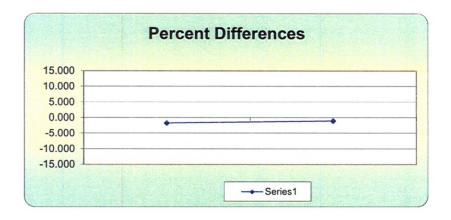
Statistical Calc	ulations:			
n=	14.0	S Dev=	18.6 %	
Mean=	-6.3	** CV=	17.8 %	

^{*} Both sample concentrations must be greater than or equal to  $3 \mu g/m^3$  to be used for these precision calculations. For a detailed discussion of these precision calculations, refer to 40 CFR 58, Appendix A.

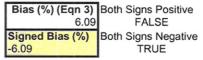
^{**} CV - Upper 90% Confidence bound for Coefficient of Variation

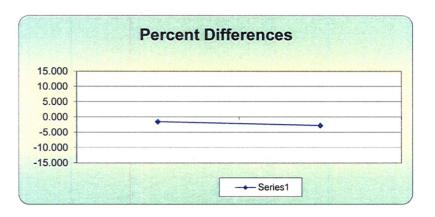
Site ID: Monitor 962A	Pollutant typ							
Meas Val (Y) Audit Val (X)	d (Eqn. 1)	25th Percentile	d ²	<b>d</b>	$ \mathbf{d} ^2$		9	-
16.72	-1.647	-1.487	2.713	1.647	2.713			
16.7 16.8	-1.008	75th Percentile	1.015	1.008	1.015	n	∑  <b>d </b>	"AB" (Eqn 4)
		-1.168				2	2.655	1.327
						n-1	$\Sigma  \mathbf{d} ^2$	"AS" (Eqn 5)
						1	3.728	0.452



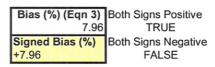


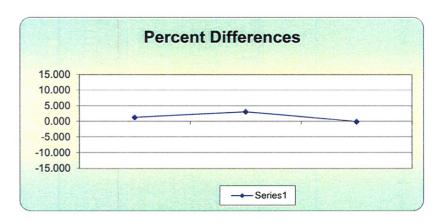
Site ID: Monitor	963B	Pollutant typ							
Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	25th Percentile	d ²	d	$ \mathbf{d} ^2$			
16.7	16.95	-1.475	-2.422	2.175	1.475	2.175			
16.7	17.17	-2.737	75th Percentile	7.493	2.737	7.493	n	$\Sigma  \mathbf{d} $	"AB" (Eqn 4)
			-1.791				2	4.212	2.106
							n-1	$\sum  \mathbf{d} ^2$	"AS" (Eqn 5)
							1	9.668	0.893



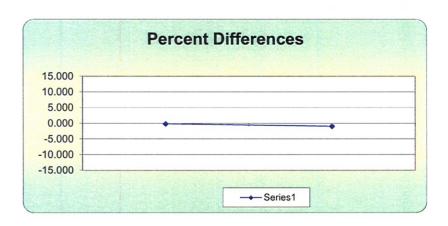


Site ID: Monitor	964C	Pollutant typ	e:						
Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	25th Percentile	d ²	<b>d</b>	$ \mathbf{d} ^2$			
16.7	16.48	1.335	1.788	1.782	1.335	1.782			
16.72	16.21	3.146	75th Percentile	9.899	3.146	9.899	n	$\Sigma  \mathbf{d} $	"AB" (Eqn 4)
			2.693				2	4.481	2.241
						- 1	n-1	$\sum  \mathbf{d} ^2$	"AS" (Eqn 5)
							1	11.681	1.281

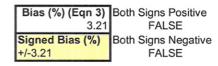


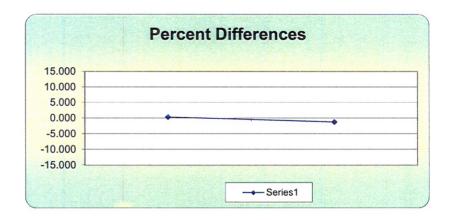


Site ID: Monitor	2366D	Pollutant typ	e:					Bias (%)	
Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	25th Percentile	d ²	d	d  ²			,
16.7	16.71	-0.060	-0.683	0.004	0.060	0.004			
16.7	16.85	-0.890	75th Percentile	0.792	0.890	0.792	n	∑  <b>d </b>	"AB" (Eqn 4)
			-0.267				2	0.950	0.475
							n-1	$\sum  \mathbf{d} ^2$	"AS" (Eqn 5)
							1	0.796	0.587
									-
								Bias (%) (Eqn 3)	Both Signs Positive
								3.1	FALSE
								Signed Bias (%)	Both Signs Negative
								-3.1	TRUE



Site ID: Monitor	2398E	Pollutant typ							
Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	25th Percentile	$d^2$	d	$ \mathbf{d} ^2$			
16.7	16.63	0.421	-0.782	0.177	0.421	0.177			
16.7	16.9	-1.183	75th Percentile	1.401	1.183	1.401	n	Σ d	"AB" (Eqn 4)
			0.020				2	1.604	0.802
							n-1	$\Sigma  d ^2$	"AS" (Eqn 5)
							1	1.578	0.539





## APPENDIX D

**Field Data Sheets** 

## Go

## Background Monitor 962A

Table I - Every 6th Day Sampling

AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON	THE RESERVE AND ADDRESS OF THE PERSONS ASSESSED.				Marie Company of the	THE RESERVE OF THE PERSON NAMED IN	The same of the sa		
Date	Time	Displayed Date	Displayed Time	Collected Filter ID#	New Filter		Sample Start Date	Sampler Initials	
03-28-18	12-7	47 00 16	214 7	9	15	M-M			
	11.5	03-28-18		15	26		04-02-18		
04-05-18	1131	04-05-18	1 4			M-M M-M	04-08-18		
04-16-18	1901	04-16-18		33	38	M-M		JKSR	•
04-23-18		14.23-18		38	4	M·M	0926-18		
04-27-18		14-27-18		4	9	0852	14-27-18	UKSR	Blank
04-27-18	0955	04-27-18	0854	9	10	M-M	05-02-18	JKSR	to.
05-04-18		05-04-18		10	22	M-M	05-08-18		•
05-09-18		05-09-18	0928	22	28		05-14-18	JKSR	
05-15-18		15-15-18	1045	28	17	M-M	15-20-18	JKSR	
05-22-18	1309	81-22-50	1208	17	33		05-26-10	JKSR	
05-29-18		05-29-18		33	38	M-M	06-01-18	2	D 1 dm
16-04-18		06-04-18	1502	38	//	7	06-0718		code F
06-08-18		06-08-18	77		22	M-M	06-13-18		
06-14-18	-	06-14-18		22	4		06-19-18		
06-22-18		06-27-18	1455	9	9		06-22-18	KN	11 =
00-2710	(30)	09-51-10	1433		17	an M	104-01-18	JESIC	Lode F
-	-								

Table II - Monthly Leak Test

		Initial SP	Final SP			
Date	Time	Value	Value	Pass/Fail	Initials	Maintenance
04-23-18	0947	94	93	Pass	KN	Cleaned Manifold
0	1023					
06-22-18	1024	9.5	93	Pass	KN	Cleaned Manifold
	-		•			

Date	Time	Monitor Flow (Q Lpm)	Monitor Baro Pressure (mmHg)	Delta Cal Baro Pressure (mroHg)	Monitor Temp (A)	Delta Cal Temp (Ta)		Delta Cal Flow (Qa)	Accuracy	Initials
04-23-18	0951	16.72	585	587	17.1	17.9	13.44	17,00	-1.6	KN
06-22-18	1024	16.70	586	587.3	4.6	25.1	13.03	16.87	-1.0	KN

## Compliance Monitor 963B

Table I - Every 6th Day Sampling

			The second secon		The same of the sa		Van De la Contraction de la Co	The Real Property lies and the Real Property lie	-
Date	Time	Displayed Date	Displayed	Collected	New Filter		Sample	Sampler	***************************************
		Date	Time	Filter ID#	ID#	Start Time	Start Date	Initials	
03-28-18		03-28-18	1117	10	17	u-M	04-02-18	JKSR	1
04-05-18	1150	04-08-18	1047	17	27	M-M	04-08-18	JKSR	1
04-10-18	1201	04-10-18	1058	27	34		04-14-18		51
04-16-18	1913	04-16-18	1410	34	39	U-M	04-20-18	-	
04-23-18	1059	04-1618	\$0958	39	5	M-M	04-26-18		1
04-27-18		04-27-18		5	11	M-M	05-02-18		
05-04-18	1403	05-04-18	1300	11	14	1403	05-08-18		B
05-04-18	1404	05-04-18	1301	16	23	M-M	05-08-18		
05-09-18	1043	05-09-18	0940	23	29	M-M	05-14-18		
05-15-18	1159	05-15-18	1056	29	18	M-M	05-20-18		
05-22-18	1320	05-22-18	1217	18	34	M-M	05-22-18		
05-29-18	1206	09-29-18	1103	34	39	M-M	06-01-18	-	
06-04-18	1621	06-04-18	1518	39	12	12 10	06-07-18		
66-08-18	1312	06-08-18	1209	12	23	M-M	16-13-18	JKSR	•
06-14-18	1523	06-14-18	1420	23	.5	M-M	06-19-18	JKSR	
06-22-18	1049	06-22-18	09 46	5	JBRI	M-M	06-25-18	KN	
06-27-18	1609	06-27-19	1507	JBRI	18	M-M	07-01-18	JKSR	

Table II - Monthly Leak Test

		Initial SP	Final SP			
Date	Time	Value	Value	Pass/Fail	Initials	Maintenance
041-2348	1503	163	99	Pass	KN	Cleased Manifold
					,	7.7
06-22-18	10:53	100	100	Pars	KAI	Cleard Manifold
					,	

	Montain	y 1 10 W 1	vare veri	ncauon						
Date	Time	Monitor Fiow (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
04-23-18	1110	16.70	592	593	18.5	19.3	13,49	16,95	-1.5	KN
06-22-18	1108	16.70	592	593	26.2	27.1	13,28	17.17	-2,7	EN

#### Co-located Monitor 964C

Table I - Every 6th Day Sampling

		Duj O							
Date	Time	Displayed Date	Displayed Time	Collected Filter ID#	New Filter ID#		Sample Start Date	Sampler Initials	
0328-18	1221	03-28-18	1117	//	18	M-M	14-12-18	JKSR	
04-05-18	1151	04-08-18	1047	18	28	N-M	04-09-18		
04-10-18	1203	04-10-18		28	35	U. U	04-14-18	UKSR	
04-16-18	1515	04-16-18		35	40	4	04-20-18		
64-23-19	1/12	14-73-18		40	6		04-26-18		
04-27-18	1012	04-27-18	0907	6	12	M-M		JKSK	
05-04-18	1405	05-04-18	1301	12	24	-	05-08-18		QT
05-09-18	1042	05-09-18	0937	24	27	0937	03-09-18		QT Blank
05-09-18	1044	05-09-18		27	30	M-M	05-14-18		
05-15-18	1201	05-15-18	1056	30	19	M-M	05-20-10	11000	
05-22-18	1322	05-22-18	1217		35	M-M	05-26-19	JKSE	No codes Data 6 hrs
05-29-18	1208	05-29-18	1103	35	40	M-M	06-01-18	NICSR	No codes Bata 6 hrs
06-04-18	1623	06-04-18	1517	40	13	M-M	16-0718	JKSR	
06-08-18	1314	06-08-18	1210		24		06-13-19		
06-14-18	1525	06-14-18	1420	24	6	M-M	06-19-18		
06-22-18		06-72-18	4947	7	7		n 6-25-18		
06-27-18		06-27-18	1905	JBR7	19		07-01-18		

Table II - Monthly Leak Test

		Initial SP	Final SP			
Date	Time	Value	Value	Pass/Fail	Initials	Maintenance
04-23-18	1118	115	1/2	Pacs	KN	Cleaned Mantill
						(
06-72-18	1113	110	105	Pass	KN	Cleaned Manifole

	1010110111	.,	tate veri	iication						
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
04-27-18	1/21	16.70	594	593	19.0	19.3	12.10	16.47	1.3	KN
06-22-18	1115	16.70	594	593	26.1	26.4	1257	12,21	3.1	KN

## Compliance Monitor 2366D

Table I - Every 6th Day Sampling

The second secon	The same of the sa	The state of the s	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN		Company of the Compan	A CONTRACTOR OF THE PARTY OF TH		
Date	Time	Displayed Date	Displayed Time	Collected Filter ID#	New Filter ID#	Sample Start Time	Sample Start Date	Sampler Initials
03-28-18	1233	03-28-18	1/28	12	19	M-M	04-02-18	JKSR
04-05-18	1206	04-05-18	1100	19	29	M-M	04-08-18	JKSR
04-10-18	1239	04-10-18	1133	29	36	M-M	04-14-18	UKSR
04-16-18	1533	04-16-18	1427	36	41	M-M	04-20-18	JKSR
04-23-18	1435	04-23-18	1331	41	7	M-M	04-2618	_ /
64-27-18		04-27-18	0919	7	13	M-M	05-02-18	UKSR
05-04-18	1415	05-04-18	1309	13	25	M-M	05-08-18	UKSR
05-09-18	1058	05-09-18	0952	25	31	M-M	05-14-18	JKSR
05-15-18	1211	05-15-18	1105	31	20	M-M	05-20-18	JKSR
05-22-18	1334	05-22-18	1228	20	38	M-M	05-26-18	JKSK
05-29-18		05-29-18		35	41	M-M	06-01-18	JKSR
06-04-18	1630	06-04-18	1923	41	14		06-04-18	UKSR
06-04-18	1631	06-04-18	1524	14	15	M-M	0607-18	JKSR
06-08-18	-	06-08-18	1221	15	26	M-M	06-13-18	UKSR
06-14-18	\$ 1535	06-14-18	1428	26	7	M-M	06-19-18	UKSR
4-22-18	1258	156-23-18	11:51	7	7388	11-11	06-25-18	KN
06-2718	1621	06-27-18	3 1519	JBR B	20	M-M	07-01-18	UKSR

Blank

Still Running

Table II - Monthly Leak Test

Table II	MOHUM	y Loun i	031			
		Initial SP	Final SP			
Date	Time	Value	Value	Pass/Fail	Initials	Maintenance
04.23-18	1442	//1	107	Pass	KN	Cleaned Mansfeld
						•
06-22-18	1259	128	125	Pass	Kal	Cleaned Manifold

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
04-23-18	1444	16.70	589	591	20,1	2/,1	13,23	16.79	-0.5	KN
06-22-18	1303	16,70	590	591.8	28.9	29.3	1264	16,45	1.5	KN

#### Co-located Monitor 2398E

Table I - Every 6th Day Sampling

100101		cir buy c	ab9					
Date	Time	Displayed Date	Displayed Time	Collected Filter ID#	New Filter ID#	Sample Start Time	Sample Start Date	Sampler Initials
13-28-18	1236	03-28-18	03-28-18	31	30	M-M	14-02-18	JKSP
04-05-18	1207	04-05-18	1401	30	32	M-M	04-08-18	JKSR
04-10-18	124	04-10-18	1134	32	37	M-M	04-14-18	
04-16-18	1534	14-16-18	1428	37	42	U-M	04-20-18	
04-25-18	1447	04-23-18	13:41	42	8	M-M	04-26-18	KN
04-27-18	1026	04-27-18	0919	8	14	U-M	05-02-18	
05-04-18	1916	05-04-18		14	26	U-M	05-08-18	
05-09-18	1100	05-09-18	0953	76	32	M-M	05-14-18	JKSR
05-15-18	1213	05-15-18	1106	32	21	M-M	05-20-18	JICSIC
05-22-18	1336	05-22-18	1229	21	37	11-M	05-26-18	
05-29-18	1222	05-29-18		37	42	M-M	06-01-18	
06-04-18		06-04-18	1526	42	16		06-07-18	
06-08-18	1329	06-08-18	1222	16	27	1222	06-08-18	NKSR
06-08-18	1330	06-08-18	The same of the sa	27	26	M-M	16-13-18	JKSR
06-14-18	1534	06-14-18	1430	26	8	M-M	06-19-18	JKSR
06-22-18		(16-22-18	- / /		TBR//	M-M	01-25-18	KN
06-27-18	1624	06-27-18	1516	JB,R11	21	M-M	07-01-18	JKSR

Blank

Table II - Monthly Leak Test

		Initial SP	Final SP			
Date	Time	Value	Value	Pass/Fail	Initials	Maintenance
09-25-18	14,51	100	99	Pass	KN	Cleanel Manifold
06-22-48	1310	100	99	Pars	KN	Cleaned Manifold

14010111		19 1 10 10 1	1010 1011	HOUGHOIT						
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 (Qa)	Accuracy	Initials
04-23-18	1454	16.70	571	592	20.9	21,3	13.24	16.79	-0.5	KN
06-22-18	1312	16.70	593	592.0	28.7	28,4	12.57	,16.81	-0,7	KN

## **APPENDIX E**

Independent PM₁₀ Sampler Performance Audit Report

## AUDIT REPORT FOR

#### ALTON COAL DEVELOPMENT, LLC COAL HOLLOW MINE ALTON, UTAH SECOND QUARTER 2018

#### Prepared for

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

Prepared by



1901 Sharp Point Drive, Suite F Fort Collins, CO 80525 970-484-7941

Site Audited: June 28, 2018

#### TABLE OF CONTENTS

Secti	<u>on</u>	<u>Page</u>
1.0	INTRODUCTION	1-1
2.0	AUDIT METHODS AND EQUIPMENT 2.1 Particulate Samplers	<b>2-1</b> 2-1
3.0	AUDIT RESULTS	3-1
APP	ENDIX A Audit Data Forms	A-1
APP	ENDIX B Audit Standards Certifications	B-1
	LIST OF TABLES	
Table	<u>e</u>	Page
1-1	Site Location Information	1-1
1-2	Summary of Particulate Audit Results	1-1
2-1	Particulate Samplers, Audit Methods and Acceptance Criteria	2-1
2-2	Particulate Samplers, Audit Equipment	2-2

#### 1.0 INTRODUCTION

Air Resource Specialists, Inc. (ARS) conducted a performance audit of Alton Coal Development, LLC ambient air quality monitoring systems on June 28, 2018. The monitoring sites are located at the Coal Hollow Mine near Alton, Utah.

Table 1-1
Site Location Information

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

Christian A. Kirk
Quality Assurance Officer / Lead Auditor
Air Resource Specialists, Inc.
1901 Sharp Point Drive, Suite F
Fort Collins, Colorado 80525
Telephone: 970-484-7941

Fax: 970-484-3423 E-mail: ckirk@air-resource.com

#### 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 PM₁₀)

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  $\pm 10\%$  are considered out of tolerance. Differences between the designated design flow and the audit flow greater than  $\pm 10\%$  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  $\pm 2\%$ C and a barometric pressure difference greater than  $\pm 10\%$ m 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	<u>≤</u> ± 10%
	Design criteria flow to audit flow	≤ ± 10%
	Audit temperature to sampler temperature	$\leq$ $\pm$ 2 °C
	Audit temperature to sampler filter temperature	$\leq$ $\pm$ 2 °C
	Audit barometric pressure to sampler pressure	$\leq \pm 10 \text{ mm Hg}$

# Table 2-2 Particulate Samplers Audit Equipment

References	Manufacturer	Model Number	Serial Number	Expiration Date
FRM Flow	BGI	DeltaCal	1220	3/16/2019

#### 3.0 AUDIT RESULTS

Audit findings and recommendations are discussed below. Detailed audit results are provided in Appendix  $\mathbf{A}$ .

#### Performance Audit Results

• There were no performance audit findings.

#### APPENDIX A

#### **AUDIT DATA FORMS**



ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	M. Gosselin	DATE	6/28/2018
SITE	NAME	Coal Hol	low Mine				
Netwo	rk type	Alton Coal-	Coal Hollov				

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltaCal	1220	3/16/2019
PM Temperature Standard #1	BGI	deltaCal	1220	3/16/2019
PM Barometric Pressure Standard #1	BGI	deltaCal	1220	3/16/2019

MANUFACTURER	BGI
MODEL	PQ200S
SERIAL NUMBER	N963B

SETTINGS				
Total Flow	16.70			

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

Automated LEAK CHECK			
Vacuum Loss Rate	Pass/Fail		
1 cm	PASS		

	FLOW VERIFICATION				
	Reference	Instrument	Actual Diff	Design Diff	
Total Flow	16.95	16.70	-1.5%	1.5%	PASS

AMBIENT TEMPERATURE SENSOR (°C)					
Reference	Instrument	Difference			
25.9	25.8	-0.1	PASS		

FILTER TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
27.8	26.7	-1.1	PASS

PRESSURE SENSOR (mmHg)			
Reference	Instrument	Difference	
591.5	591.0	-0.5	PASS

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

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

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

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

NOTES:		



ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	M. Gosselin	DATE	6/28/2018
SITE	NAME	Coal Hol	low Mine				
Netwo	rk type	Alton Coal-	Coal Hollov				

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltaCal	1220	3/16/2019
PM Temperature Standard #1	BGI	deltaCal	1220	3/16/2019
PM Barometric Pressure Standard #1	BGI	deltaCal	1220	3/16/2019

MANUFACTURER	BGI
MODEL	PQ200S
SERIAL NUMBER	N964C

S		
Total Flow	16.70	

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

Automated LEAK CH	IECK
Vacuum Loss Rate	Pass/Fail
3 cm	PASS

	FLOW VERIFICATION				
	Reference Instrument Actual Diff Design Diff				
Total Flow	16.72	16.39	-2.0%	0.1%	PASS

AMBIENT TE			
Reference	Instrument	Difference	
26.0	26 1	0.1	PASS

FILTER TEMPERATURE SENSOR (°C)					
Reference	Instrument	Difference	)		
27.1	27.1	0.0	PASS		

PRESSURE SENSOR (mmHg)				
Reference Instrument Difference				
591.5	592.0	0.5	PASS	

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

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

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

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

NOTES:		



ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	M. Gosselin	DATE	6/28/2018
SITE	NAME	Coal Hollow Mine				_	_
Netwo	rk type	Alton Coal-	Coal Hollov				

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltaCal	1220	3/16/2019
PM Temperature Standard #1	BGI	deltaCal	1220	3/16/2019
PM Barometric Pressure Standard #1	BGI	deltaCal	1220	3/16/2019

MANUFACTURER	BGI	
MODEL	PG200S	
SERIAL NUMBER	N962	

S	ETTINGS	
Total Flow	16.70	

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

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

	FLOW VERIFICATION				
	Reference Instrument Actual Diff Design Diff				
Total Flow	17.00	16.70	-1.8%	1.8%	PASS

AMBIENT TEMPERATURE SENSOR (°C)					
Reference Instrument Difference					
24.7	24.6	-0.1	PASS		

FILTER TEMPERATURE SENSOR (°C)				
Reference Instrument Difference				
26.0	25.3	-0.7	PASS	

PRESSURE SENSOR (mmHg)				
Reference Instrument Difference				
586.0	585.0	-1.0	PASS	

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

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

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

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

NOTES: Fluccuated around 16.67-16.7



ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	M. Gosselin	DATE	6/28/2018
SITE	NAME	Coal Hol	low Mine				
Netwo	Network type Alton Coal- Coal Hollov						

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltaCal	1220	3/16/2019
PM Temperature Standard #1	BGI	deltaCal	1220	3/16/2019
PM Barometric Pressure Standard #1	BGI	deltaCal	1220	3/16/2019

MANUFACTURER	BGI
MODEL	PQ200
SERIAL NUMBER	2366D

S	ETTINGS	
Total Flow	16.70	

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

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

	FLOW VERIFICATION				
	Reference	Instrument	Actual Diff	Design Diff	
Total Flow	16.64	16.70	0.4%	-0.4%	PASS

AMBIENT TEMPERATURE SENSOR (°C)			ĺ
Reference	Instrument	Difference	
26.3	26.2	-0.1	PASS

FILTER TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
27.8	27.3	-0.5	PASS

PRESSURE SENSOR (mmHg)			
Reference	Instrument	Difference	
591.0	589.0	-2.0	PASS

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

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

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

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

NOTES:	3:	



ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	M. Gosselin	DATE	6/28/2018
SITE NAME		Coal Hol	low Mine			_	
Network type		Alton Coal-	Coal Hollov				

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltaCal	1220	3/16/2019
PM Temperature Standard #1	BGI	deltaCal	1220	3/16/2019
PM Barometric Pressure Standard #1	BGI	deltaCal	1220	3/16/2019

MANUFACTURER	BGI
MODEL	PQ200
SERIAL NUMBER	2398E

SETTINGS		
Total Flow	16.70	

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

Automated LEAK CHECK		
Vacuum Loss Rate	Pass/Fail	
4.0	PASS	

	FLOW VERIFICATION				
	Reference	Instrument	Actual Diff	Design Diff	
Total Flow	16.82	16.67	-0.9%	0.7%	PASS

AMBIENT TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
26.7	27.2	0.5	PASS

FILTER TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
28.1	27.9	-0.2	PASS

PRESSURE SENSOR (mmHg)			
Reference Instrument Difference			
590.5	592.0	1.5	PASS

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

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

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

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

NOTES:			



NOTES:

#### **SITE INFORMATION**

ABBR.	n/a	CLIENT	Alton Coal	AU	DITOR	M. Go	sselin	DA	TE	6/28/2018
SITE	NAME	Coal Hol	low Mine							
NETWOF	RK TYPE	Alton Coal-	Coal Hollow							
			Deg	Min	Sec				Decimal	
LATI	TUDE	North					CALCI	JLATE->		
LONG	ITUDE	West					CALC	JLA I E-2		
			Decimal	CA	LCULATE->		Deg	Min	Sec	
ELEV/	ATION	Meters	CALCU	JLATE->	Feet					
		Feet	CALCU	JLATE->	Meter	S				
			Please verif	y site sta	ndards used	d by the	site ope	rator		
SIT	E STANDAI	RDS	MANUFACT	URER	MODE	L	SI	ERIAL#	Calibration Ex	xpiration Date
Р	M Flow Referen	се								



ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	M. Gosselin	DATE	6/28/2018
SITE	NAME	Coal Ho	llow Mine				
Netwo	rk type	Alton Coal-	<b>Coal Hollov</b>				

			MANUFACTURER	MODEL	SERIAL#	Calibration Expiration Date
Ozone Tra	ansfer Stan	dard				
Gas Dilution Transfer Standard						
MFC High	Flow Refer	ence				
MFC Low	Flow Refer	ence				
Tempera	ture Refere	nce				
AT/RH Se	nsor Refere	ence				
Barometric P	ressure Re	ference				
Wind Speed R	leference (h	igh rpm)				
Wind Speed F	Reference (I	ow rpm)				
Wind Spee	d Torque G	auge				
Wind Direction	Alignment	Reference				
Wind Direction	Linearity F	Reference				
Wind Direct	ion Torque	Gauge				
Solar Radi	iation Refer	ence				
Multiplier		W/m2 / mV				
UV Radia	tion Refere	nce				
Multiplier		W/m2 / mV				
Precipita	tion Refere	nce				
Volume	1000	mL				
				_		
PM Flov	w Standard	#1	BGI	deltaCal	1220	3/16/2019
PM Flov	w Standard	#2				
PM Flov	w Standard	#3				
PM Flov	w Standard	#4				
					1	
PM Tempera	ature Stand	lard #1	BGI	deltaCal	1220	3/16/2019
PM Tempera	ature Stand	lard #2				
PM Tempera						
PM Tempera	ature Stand	lard #4				
PM Barometric			BGI	deltaCal	1220	3/16/2019
PM Barometric	Pressure S	tandard #2				
PM Barometric Pressure Standard #3						
PM Barometric	Pressure S	tandard #4				
TEOM N	MTV Standa	rd				
HiVol Direc	t Flow Refe	rence				
	Orifice					
AP orific	ce manome	ter		l	1	1

# APPENDIX B AUDIT STANDARDS CERTIFICATIONS

#### 10 Park Place Mesa Labs Butler, NJ 07405

NIST Traceable Calibration Facility, ISO 9001:2008 Registered



#### CERTIFICATE OF CALIBRATION - NIST TRACEABILITY

(Refer to instruction manual for further details of calibration)

deltaCal Serial Number:

1220

DATE: 16-Mar-2018

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: 24.0 °C Room Temperature: +- 0.03°C from -5°C - 70°C

Brand: Telatemp

Serial Number:

358921

Std Cal Date

19-Apr-17

Std Cal Due Date

19-Apr-18

deltaCal:

Ambient Temperature (set):

24.0 °C

Aux (filter) Temperature (set):

24.0 °C

#### Barometric Pressure ans Absolute Pressure

Vaisala Model PTB330(50-1100) Digital Accuracy: 0.03371%

Serial Number:

HO850001

Std Cal Date

27-Mar-17

Std Cal Due Date

27-Mar-18

deltaCal:

Barometric pressure (set):

744.5 mm of Hg

#### Results of Venturi Calibration

Flow Rate (Q) vs. Pressure Drop ( $\Delta P$ ).

Where: Q=Lpm, ΔP= Cm of H2O

Q= 4.03153 ΔP ^ 0.51384 Q= 4.03950 ΔP ^ 0.48616

Overall Uncertainty: 0.35% Overall Uncertainty: 0.35%

Date Placed In Service

(To be filled in by operator upon receipt)

Recommended Recalibration Date

(12 months from date placed in service)

Revised: March 2016 Cal102-01T2 Rev F

16-Mar-18 P.Pitty

Average %

BP= 744.5 mm of Hg

-0.07

1.5-19.5

**VER 4.00P** 

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

Serial No. 1220

Reading CV Abs. P Qa Qa Crit. Vent. Flow deltaCal Room mm of Hg Temp Lpm Indicated % Error 1.694 1.687 -0.41#2 148.31 24.00 213.33 2.458 -0.05 24.00 2.457 4.588 4.590 0.04 394.60 24.00 475.49 24.00 5.539 5.532 -0.13527.63 24.00 6.152 6.122 -0.48178.24 24.60 7.175 7.208 0.46 #1 271.68 24.60 11.018 11.022 0.04 341.52 24.60 13.890 13.881 -0.06 415.33 24.60 16.925 16.910 -0.09 24.60 19.521 478.46 19.522 0.01

То	Check a delta	aCal		16-Mar-18 P	re-Recei	rt
1.5-19.5			VER 4.00P	BP=	743	ŭ
		illowable err <b>Serial No.</b>	or at any flow rate is .75%.	Dr-	743	31
# 2	Reading Abs. P Crit. Vent. mm of Hg	Room Temp 21.50	CV Qa Flow Lpm 1.593	Qa deltaCal Indicated 1.676		
r	296.30 533.94	21.50 21.50	3.411 6.186	3.400 6.170		
#1	199.13	21.50	7.966	7.776		

13.270

19.460

329.20

481.00

21.50

21.50

Average % -0.14

12.950

19.325

mm of Hg

% Error

5.22

-0.33 -0.26

-2.39

-2.41

-0.69