Alton Coal Development, LLC.

**Summary of PM$_{10}$ Data**
**Collected at Coal Hollow Mine, Utah**
**During the Second Quarter, 2016**

Submitted to:
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Division of Air Quality
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1.0 INTRODUCTION

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

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

2.0 SITE LOCATION

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

Northing: 41401699 meters
Easting: 371534 meters

Universal Transverse Mercator (UTM) Datum NAD27, Zone 12

The three monitoring locations as depicted in Figure 2, are located in positions to collect both background and maximum PM10 concentrations. The background monitor has a manufactures serial #962, therefore this monitor will be referred as monitor 962A. The compliance monitor for the Coal Hollow Mine (CHM) has a manufactures serial #963, therefore this monitor will be referred as monitor 963B. The co-located monitor has a manufactures serial #964, therefore this monitor will be referred as monitor 964C. The background monitor coordinates are Northing: 4140856, Easting 373119, (UTM) Datum NAD27, Zone 12. The CHM compliance monitor and the co-located monitor coordinates are Northing: 4140396, Easting 371147, (UTM) Datum NAD27, Zone 12. The compliance monitor for the North Private Lease (NPL) has a manufactures serial #2366, therefore this monitor will be referred as monitor 2366D. The co-located monitor has a manufactures serial #2398, therefore this monitor will be referred as monitor 2398E. The NPL compliance monitor and the co-located monitor coordinates are Northing: 4141570, Easting 370928, (UTM) Datum NAD27, Zone 12.
Figure 1 - Site Location Map
3.0 AIR QUALITY DATA SUMMARIES

A listing of the measured PM$_{10}$ concentrations for the quarter are presented in Appendix B (individual data sheets are provided on the enclosed disk in the PDF version of Appendix B) and Field Data Sheets generated during the collection of each sample are presented in Appendix D. Measurements were collected during a 24-hour period and represent the average PM$_{10}$ concentration during the midnight to midnight data collection cycle. As required by the operating permit for the CHM, duplicate measurements were made with Sampler #963B (designated as a compliance monitor) and Sampler #964C (designated as a co-located sampler) to the extent possible. The quarterly mean PM$_{10}$ concentration and the comparison of measured concentrations to standards are based on measurements from the primary Sampler #963B. If a measurement from Sampler #963B was missing or invalid, the measurement from the secondary Sampler #964C would be used. Also, required by the operating permit for the NPL, duplicate measurements were made with Sampler #2366D (designated as a compliance monitor) and Sampler #2398E (designated as a co-located sampler) to the extent possible. The quarterly mean PM$_{10}$ concentration and the comparison of measured concentrations to standards are based on measurements from the primary Sampler #2366D. If a measurement from Sampler #2366D was missing or invalid, the measurement from the secondary Sampler #2398E would be used.
The highest 24-hour mean PM$_{10}$ concentrations measured during the quarter from the three monitoring locations are summarized in Table I, Table II, Table III, Table IV and Table V. The three highest concentrations, # of valid samples, and the arithmetic mean concentrations from each of the sites are listed. All measured PM$_{10}$ concentrations were below the 24-hour National Ambient Air Quality Standard (NAAQS) of 150 µg/m$^3$.

**Table I - Summary of Measured PM$_{10}$ Concentrations (µg/m$^3$)**

<table>
<thead>
<tr>
<th>Background Monitor - 962A</th>
<th>RANK</th>
<th>DATE</th>
<th>PM$_{10}$ CONCENTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highest</td>
<td>6/23/2016</td>
<td>16.5</td>
<td></td>
</tr>
<tr>
<td>2$^{nd}$ Highest</td>
<td>6/29/2016</td>
<td>12.0</td>
<td></td>
</tr>
<tr>
<td>Monthly Mean</td>
<td>4/1/16-4/30/16</td>
<td>3.4</td>
<td></td>
</tr>
<tr>
<td>Monthly Mean</td>
<td>5/1/16-5/31/16</td>
<td>6.7</td>
<td></td>
</tr>
<tr>
<td>Monthly Mean</td>
<td>6/1/16-6/30/16</td>
<td>11.7</td>
<td></td>
</tr>
<tr>
<td>Quarterly Mean</td>
<td>4/1/16-6/30/16 (13 valid samples)</td>
<td>7.4</td>
<td></td>
</tr>
</tbody>
</table>

**Table II - Summary of Measured PM$_{10}$ Concentrations (µg/m$^3$)**

<table>
<thead>
<tr>
<th>Compliance Monitor - 963B</th>
<th>RANK</th>
<th>DATE</th>
<th>PM$_{10}$ CONCENTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highest</td>
<td>6/23/2016</td>
<td>62.9</td>
<td></td>
</tr>
<tr>
<td>2$^{nd}$ Highest</td>
<td>6/29/2016</td>
<td>91.5</td>
<td></td>
</tr>
<tr>
<td>Monthly Mean</td>
<td>4/1/16-4/30/16</td>
<td>9.1</td>
<td></td>
</tr>
<tr>
<td>Monthly Mean</td>
<td>5/1/16-5/31/16</td>
<td>27.8</td>
<td></td>
</tr>
<tr>
<td>Monthly Mean</td>
<td>6/1/16-6/30/16</td>
<td>38.4</td>
<td></td>
</tr>
<tr>
<td>Quarterly Mean</td>
<td>4/1/16-6/30/16 (14 valid samples)</td>
<td>26.2</td>
<td></td>
</tr>
</tbody>
</table>
### Table III - Summary of Measured PM$_{10}$ Concentrations (µg/m$^3$)
**Collocated Monitor – 964C**

<table>
<thead>
<tr>
<th>RANK</th>
<th>DATE</th>
<th>PM$_{10}$ CONCENTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highest</td>
<td>5/12/2016</td>
<td>61.0</td>
</tr>
<tr>
<td>2$^{nd}$ Highest</td>
<td>6/17/2016</td>
<td>43.7</td>
</tr>
<tr>
<td>Monthly Mean</td>
<td>4/1/16-4/30/16</td>
<td>8.3</td>
</tr>
<tr>
<td>Monthly Mean</td>
<td>5/1/16-5/31/16</td>
<td>27.3</td>
</tr>
<tr>
<td>Monthly Mean</td>
<td>6/1/16-6/30/16</td>
<td>28.6</td>
</tr>
<tr>
<td>Quarterly Mean</td>
<td>4/1/16-6/30/16 (15 valid samples)</td>
<td>21.4</td>
</tr>
</tbody>
</table>

### Table IV - Summary of Measured PM$_{10}$ Concentrations (µg/m$^3$)
**Compliance Monitor – 2366D**

<table>
<thead>
<tr>
<th>RANK</th>
<th>DATE</th>
<th>PM$_{10}$ CONCENTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highest</td>
<td>6/23/2016</td>
<td>122</td>
</tr>
<tr>
<td>2$^{nd}$ Highest</td>
<td>6/29/2016</td>
<td>78.6</td>
</tr>
<tr>
<td>Monthly Mean</td>
<td>4/1/16-4/30/16</td>
<td>Not Installed</td>
</tr>
<tr>
<td>Monthly Mean</td>
<td>5/1/16-5/31/16</td>
<td>7.0</td>
</tr>
<tr>
<td>Monthly Mean</td>
<td>6/1/16-6/30/16</td>
<td>74.5</td>
</tr>
<tr>
<td>Quarterly Mean</td>
<td>4/1/16-6/30/16 (13 valid samples)</td>
<td>36.6</td>
</tr>
</tbody>
</table>
Table V - Summary of Measured PM$_{10}$ Concentrations (μg/m$^3$) 
Collocated Monitor – 2398E

<table>
<thead>
<tr>
<th>RANK</th>
<th>DATE</th>
<th>PM$_{10}$ CONCENTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highest</td>
<td>6/23/2016</td>
<td>112.6</td>
</tr>
<tr>
<td>2$^{nd}$ Highest</td>
<td>6/17/2016</td>
<td>81.0</td>
</tr>
<tr>
<td>Monthly Mean</td>
<td>4/1/16-4/30/16</td>
<td>7.6</td>
</tr>
<tr>
<td>Monthly Mean</td>
<td>5/1/16-5/31/16</td>
<td>32.5</td>
</tr>
<tr>
<td>Monthly Mean</td>
<td>6/1/16-6/30/16</td>
<td>56.8</td>
</tr>
<tr>
<td>Quarterly Mean</td>
<td>4/1/16-6/30/16 (14 valid samples)</td>
<td>34.1</td>
</tr>
</tbody>
</table>

Table VI – Mean Quarterly and Monthly Wind Speed

<table>
<thead>
<tr>
<th>Mean Wind Speed (m/s)</th>
<th>2nd Quarter 2016</th>
<th>Apr.</th>
<th>May</th>
<th>Jun.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3.42</td>
<td>3.49</td>
<td>3.40</td>
<td>3.38</td>
</tr>
</tbody>
</table>

4.0 DATA RECOVERY AND QUALITY ASSURANCE

4.1 Data Recovery

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

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

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

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

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

The PM$_{10}$ data recoveries for the five monitoring stations are presented below:

<table>
<thead>
<tr>
<th>SAMPLER</th>
<th>POSSIBLE SAMPLES</th>
<th>VALID SAMPLES</th>
<th>PERCENT DATA RECOVERY</th>
</tr>
</thead>
<tbody>
<tr>
<td>962A</td>
<td>15</td>
<td>13</td>
<td>87%</td>
</tr>
<tr>
<td>963B</td>
<td>15</td>
<td>14</td>
<td>93%</td>
</tr>
<tr>
<td>964C</td>
<td>15</td>
<td>15</td>
<td>100%</td>
</tr>
<tr>
<td>2366D</td>
<td>15</td>
<td>13</td>
<td>87%</td>
</tr>
<tr>
<td>2398E</td>
<td>15</td>
<td>14</td>
<td>93%</td>
</tr>
</tbody>
</table>

**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\textsubscript{10} samplers.

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

### 4.2.1 Precision of PM\textsubscript{10} Measurements

The precision of the PM\textsubscript{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\textsubscript{10} precision checks are reported for instances when the concentrations for duplicate samples both exceed 3 \(\mu\text{g/m}^3\). Duplicate samples that did not meet this condition were omitted for the purposes of the precision checks. Appendix C, of this report summarizes precision calculations between the compliance monitor and the co-located monitor. Monthly flow rate verification data is also summarized in Appendix C.

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

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

### 4.2.2 Audit Results

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

<table>
<thead>
<tr>
<th>SAMPLER</th>
<th>AUDIT % DIFFERENCE</th>
<th>LIMIT*</th>
<th>DESIGN % DIFFERENCE</th>
<th>LIMIT*</th>
</tr>
</thead>
<tbody>
<tr>
<td>962A</td>
<td>-2.6</td>
<td>±4%</td>
<td>2.6</td>
<td>± 5%</td>
</tr>
</tbody>
</table>
### 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.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>±4%</th>
<th></th>
<th>±5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>963B</td>
<td>-1.1</td>
<td>±4%</td>
<td>1.1</td>
<td>±5%</td>
</tr>
<tr>
<td>964C</td>
<td>-0.1</td>
<td>±4%</td>
<td>0.1</td>
<td>±5%</td>
</tr>
<tr>
<td>2366D</td>
<td>-0.7</td>
<td>±4%</td>
<td>0.7</td>
<td>±5%</td>
</tr>
<tr>
<td>2398E</td>
<td>-1.0</td>
<td>±4%</td>
<td>1.0</td>
<td>±5%</td>
</tr>
</tbody>
</table>

*Values between ± 7% and ± 10% require recalibration but no data are invalidated.
APPENDIX A

Windrose
WIND ROSE PLOT:
Alton Coal Development, Alton, Utah
2016 2nd Quarter

DISPLAY:
Wind Speed
Direction (blowing from)

WIND SPEED
(m/s)
- >= 11.1
- 8.8 - 11.1
- 5.7 - 8.8
- 3.6 - 5.7
- 2.1 - 3.6
- 0.5 - 2.1
- Calms: 0.35%

COMMENTS:

DATA PERIOD:
Start Date: 4/1/2016 - 00:00
End Date: 6/30/2016 - 23:00

COMPANY NAME:
Alton Coal Development, LLC - Coal Hollow Mine

MODELER:
K. Nichols

CALM WINDS:
0.35%

TOTAL COUNT:
2184 hrs.

AVG. WIND SPEED:
3.42 m/s

DATE:
7/7/2016

PROJECT NO.:
Frequency Distribution
(Count)

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

<table>
<thead>
<tr>
<th>Wind Speed (m/s)</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 - 2.1</td>
<td>348.75-11.25</td>
</tr>
<tr>
<td>2.1 - 3.6</td>
<td>11.25-33.75</td>
</tr>
<tr>
<td>3.6 - 5.7</td>
<td>33.75-56.25</td>
</tr>
<tr>
<td>5.7 - 8.8</td>
<td>56.25-78.75</td>
</tr>
<tr>
<td>8.8 - 11.1</td>
<td>78.75-101.25</td>
</tr>
<tr>
<td>&gt;= 11.1</td>
<td>101.25-123.75</td>
</tr>
<tr>
<td>Total</td>
<td></td>
</tr>
</tbody>
</table>

Frequency of Calm Winds: 23
Average Wind Speed: 3.42 m/s
Frequency Distribution
(Normalized)

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

<table>
<thead>
<tr>
<th>Speed Range</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 - 2.1</td>
<td>0.013278</td>
</tr>
<tr>
<td>2.1 - 3.6</td>
<td>0.019689</td>
</tr>
<tr>
<td>3.6 - 5.7</td>
<td>0.036172</td>
</tr>
<tr>
<td>5.7 - 8.8</td>
<td>0.012363</td>
</tr>
<tr>
<td>8.8 - 11.1</td>
<td>0.001832</td>
</tr>
<tr>
<td>&gt;= 11.1</td>
<td>0.000458</td>
</tr>
<tr>
<td>Total</td>
<td>0.083791</td>
</tr>
</tbody>
</table>

Frequency of Calm Winds: 1.05%
Average Wind Speed: 3.42 m/s
WIND ROSE PLOT:
Alton Coal Development, Alton, Utah
2016 April

DISPLAY:
Wind Speed
Direction (blowing from)

WIND SPEED (m/s)

VALUES:
- >= 11.1
- 8.8 - 11.1
- 5.7 - 8.8
- 3.6 - 5.7
- 2.1 - 3.6
- 0.5 - 2.1
- Calms: 0.46%

COMMENTS:

DATA PERIOD:
Start Date: 4/1/2016 - 00:00
End Date: 4/30/2016 - 23:00

COMPANY NAME:
Alton Coal Development, LLC - Coal Hollow Mine

MODELER:
K. Nichols

CALM WINDS:
0.46%

TOTAL COUNT:
720 hrs.

AVG. WIND SPEED:
3.49 m/s

DATE:
7/7/2016

PROJECT NO.:
## Frequency Distribution

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

<table>
<thead>
<tr>
<th>Wind Speed (m/s)</th>
<th>0.5 - 2.1</th>
<th>2.1 - 3.6</th>
<th>3.6 - 5.7</th>
<th>5.7 - 8.8</th>
<th>8.8 - 11.1</th>
<th>&gt;= 11.1</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>348.75-11.25</td>
<td>8</td>
<td>19</td>
<td>30</td>
<td>26</td>
<td>4</td>
<td>1</td>
<td>88</td>
</tr>
<tr>
<td>11.25-33.75</td>
<td>22</td>
<td>24</td>
<td>7</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>54</td>
</tr>
<tr>
<td>33.75-56.25</td>
<td>27</td>
<td>82</td>
<td>46</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>155</td>
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<td>56.25-78.75</td>
<td>12</td>
<td>6</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>20</td>
</tr>
<tr>
<td>78.75-101.25</td>
<td>8</td>
<td>2</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>13</td>
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<td>101.25-123.75</td>
<td>5</td>
<td>6</td>
<td>6</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>18</td>
</tr>
<tr>
<td>123.75-146.25</td>
<td>6</td>
<td>8</td>
<td>5</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>20</td>
</tr>
<tr>
<td>146.25-168.75</td>
<td>7</td>
<td>4</td>
<td>8</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>19</td>
</tr>
<tr>
<td>168.75-191.25</td>
<td>6</td>
<td>13</td>
<td>18</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>44</td>
</tr>
<tr>
<td>191.25-213.75</td>
<td>4</td>
<td>20</td>
<td>14</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>48</td>
</tr>
<tr>
<td>213.75-236.25</td>
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Total 141 244 226 80 4 2 720

**Frequency of Calm Winds:** 23

**Average Wind Speed:** 3.49 m/s
Frequency Distribution
(Normalized)

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

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Frequency of Calm Winds: 3.19%
Average Wind Speed: 3.49 m/s
Frequency Distribution
(Count)

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

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Frequency of Calm Winds: 0
Average Wind Speed: 3.40 m/s
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Frequency of Calm Winds: 0.00%
Average Wind Speed: 3.40 m/s
### Frequency Distribution

(Count)

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<th>3.6 - 5.7</th>
<th>5.7 - 8.8</th>
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Frequency of Calm Winds: 0
Average Wind Speed: 3.38 m/s
### Frequency Distribution

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

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<th>Frequency</th>
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Frequency of Calm Winds: 0.00%
Average Wind Speed: 3.38 m/s
APPENDIX B

Listing of PM$_{10}$ Concentrations
Background Monitor 962A
### PM$_{10}$ Sampler Summary

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

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### BGI PQ200 Air Sampling System

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- **Job Name:** 16Apr02A.JOB
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- **Serial No:** 962
- **Pump Time:** 7587:50
- **Flags:**

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**QCV**
- Max Overheat: 3.4 °C
- Occurred: 31-mar 11:31:56

**Notes 1:**
- Notes 2:

**Timer Information:**
- **Start:** 16-31-mar 0:00:08
- **Stop:** 16-01-apr 0:00:05
- **ET:** 23:59

**Mass Concentration Data:**
- **Filter ID:** 29
- **Final Wt:** mg
- **Initial Wt:** mg
- **Delta Wt:** 0.000 mg
- **Total Vol:** 24.032 m³
- **Mass Conc:** 0 μg/m³

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**Temps, °C**

- Elapsed Time, Hrs
- TA
- TF

**Overheat, TF - TA, °C**

- Elapsed Time, Hrs
- TF

**SP, cmH2O**

- Elapsed Time, Hrs
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BGI PQ200 Air Sampling System

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

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Max overheat: 5.1 °C occurred 12-apr 13:54:58

Mass Concentration Data:
- Filter ID: 4
- Final Wt: mg
- Initial Wt: mg
- Delta Wt: 0.000 mg
- Total Vol: 24.04 m³
- Mass Conc: 0 µg/m³

Notes 1:
Notes 2:

Timer Information:
- Date: dd-mmm
- Time: hh:mm:ss
- Start: 16-12-apr 00:08
- Stop: 16-13-apr 00:04
- ET: 23:59
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**BGI PQ200 Air Sampling System**

**Job Details:**
- **Job Name:** 16Apr20A.JOB
- **Version:** 5.02
- **Serial No.:** 962
- **Pump Time:** 7659:47

**Flags:**
- **BP:** Max: 587, Min: 585, Avg: 586 mmHg
- **TA:** 13.6°C
- **Q:** 16.7 Lpm

**Max overheat:** 4.6°C occurred 19-apr 19:27:27

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

**Mass Concentration Data:**
- **Filter ID:** 13
- **Final Wt:** mg
- **Initial Wt:** mg
- **Delta Wt:** 0.000 mg
- **Total Vol:** 24.03 m³

**Mass Conc.:** 0 µg/m³

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BGI PQ200 Air Sampling System

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

Flags:
- Max
- Min
- Avg
- Units

BP 582 576 579 mmHg
TA 16 -5.3 6.7 °C
Q --- --- 16.7 Lpm

QCV 0.38 %
Max overhear 3.8 °C
occurred 24-apr 14:16:50

Notes 1:
Notes 2:

Timer Information:
- Date: dd-mmm
- Time: hh:mm:ss

Start: 16-24-apr 0:00:08
Stop: 16-25-apr 0:00:05

ET: 23:59

Mass Concentration Data:
- Filter ID: 16 mg
- Final Wt: mg
- Initial Wt: mg
- Delta Wt: 0.000 mg
- Total Vol: 24.029 m³

Mass Conc: 0 µg/m³
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BGI PQ200 Air Sampling System

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

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

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

Notes 1:
Notes 2:

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

Mass Concentration Data:
Filter ID: 21
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.037 m³

Mass Conc: 0 µg/m³
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BGI PQ200 Air Sampling System

Job Details:
Job Name: 16May13A.JOB
Version: 5.62
Serial No: 962
Pump Time: 7733:33
Flags:

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

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

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

Date Time
Start: 16-12-may 0:00:00
Stop: 16-13-may 0:00:04

ET: 24:00:00

Mass Concentration Data:
Filter ID: 31
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.04 m³

Mass Conc: 0 μg/m³

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Notes 2:
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BGI PQ200 Air Sampling System

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

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

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**QCV**
0.56%

**Max overheats**
2.6 °C

**occurred**
18-May 15:04:39

**Notes 1:**

**Notes 2:**

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

**Mass Concentration Data:**
- **Filter ID:** 4
- **Final Wt:** mg
- **Initial Wt:** mg
- **Delta Wt:** 0.000 mg
- **Total Vol:** 24.043 m³
- **Mass Conc:** 0 μg/m³

**Temps, °C**

**Overheat, TF - TA, °C**

**SP, cmH2O**

**Elapsed Time, Hrs**
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Page 1
BGI PQ200 Air Sampling System

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

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

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

QCV 0 %
Max overheated 3.5 °C occurred 24-may 11:53:28

Notes 1:
Notes 2:

Timers Information:
- Start: 16-24-may 0:00:08
- Stop: 16-25-may 0:00.05
- ET: 8:56

Mass Concentration Data:
- Filter ID: 9
- Final Wt: mg
- Initial Wt: mg
- Delta Wt: 0.000 mg
- Total Vol: 8.962 m³
- Mass Conc: 0 μg/m³

Graphs:
- Temps, °C
- Overheat, TF - TA, °C
- SP, cmH2O
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**BGI PQ200 Air Sampling System**

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

**Flags:**

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

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

**Mass Concentration Data:**
- **Filter ID:** 36
- **Final Wt.:** mg
- **Initial Wt.:** mg
- **Delta Wt.:** 0.000 mg
- **Total Vol.:** 24.028 m³
- **Mass Conc.:** 0 µg/m³

**Temps, °C**

- Elapsed Time, Hrs: 0, 5, 10, 15, 20, 25
- TA
- TF

**Overheat, TF - TA, °C**

- Elapsed Time, Hrs: 0, 5, 10, 15, 20, 25

**SP, cmH2O**

- Elapsed Time, Hrs: 0, 5, 10, 15, 20, 25

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BGI PQ200 Air Sampling System

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

Flags:
- Max
- Min
- Avg
- Units

BP 587 584 586 mmHg
TA 23.5 8.6 15.3 °C
Q --- --- 16.7 Lpm

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

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

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

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### BGI PQ200 Air Sampling System

#### Job Details:
- **Job Name:** 16Jun20A JOB
- **Version:** 5.62
- **Serial No:** 962
- **Pump Time:** 78.62:24
- **Flags:** F

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

#### Mass Concentration Data:
- **Filter ID:** 27
- **Final Wt:** mg
- **Initial Wt:** mg
- **Delta Wt:** 0.000 mg
- **Total Vol:** 24.037 m³
- **Mass Conc:** 0 μg/m³

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#### Notes:
- **QCV:** 0.46 %
- **Max Overheat:** 7.1 °C
- **Max occurred:** 19-jun 19:38:43

---

![Graphs showing temperature, pump performance, and other data](image-url)
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## BGI PQ200 Air Sampling System

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

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| Q   | ---  | ---  | 16.71 | Lpm   |

- **QCV**: 0.44 %
- **Max overheat**: 3.8 °C
- **occurred**: 23-Jun 19:49:58

### Timer Information:
- **Start**: 16-23-jun 00:08
- **Stop**: 16-24-jun 00:04
- **ET**: 23:59

### Mass Concentration Data:
- **Filter ID**: 4
- **Final Wt**: 0 mg
- **Initial Wt**: 0 mg
- **Delta Wt**: 0.000 mg
- **Total Vol**: 24.033 m³
- **Mass Conc**: 0 µg/m³

### Notes:
- Notes 1:
- Notes 2:
| Date       | Time   | Value | Temperature | Humidity | Oxygen | Pressure |}
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### BGI PQ200 Air Sampling System

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

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**QCV** 0.42 %

Max overheat 5.3 °C occurred 30-Jun 15:32:20

**Timer Information:**
- **Start:** 16-29-Jun 00:08
- **Stop:** 16-30-Jun 00:05
- **ET:** 23:59

**Mass Concentration Data:**
- **Filter ID:** 9
- **Final Wt:** mg
- **Initial Wt:** mg
- **Delta Wt:** 0.000 mg
- **Total Vol:** 24.036 m³
- **Mass Conc:** 0 µg/m³

---

**Graphs:**

1. **Temps, °C**
   - TA
   - TF

2. **Overheat, TF- TA, °C**

3. **SP, cmH2O**

**Elapsed Time, Hrs**
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Compliance Monitor 963B
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BGI PQ200 Air Sampling System

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Job Name: 16Apr02B.JOB
Version: 5.02
Serial No: 963
Pump Time: 3109:56
Flags:

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QCV: 0.58 %
Max Overheat: 3.1 °C
Occured: 31-Mar 14:53:54

Notes 1:
Notes 2:

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

Mass Concentration Data:
Filter ID: 30
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.034 m³
Mass Conc: 0 µg/m³

Graphs:
- Temps, °C
- Overheat, TF - TA, °C
- SP, cmH2O
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BGI PQ200 Air Sampling System

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

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Max overheat: 2.6 °C occurred on 06-Apr 14:44:25

Notes 1:
Notes 2:

Timer Information:
- Date: dd-mmm
- Time: hh:mm:ss
- Start: 16-06-apr 0:00:08
- Stop: 16-07-apr 0:00:05
- Filter ID: 35
- Final Wt: 25 mg
- Initial Wt: 24 mg
- Delta Wt: 0.000 mg
- Total Vol: 24.041 m³
- ET: 23:59

Mass Concentration Data:
- Mass Conc: 0 µg/m³

Graphs:
- Temps, °C vs Elapsed Time, Hrs
- Overheat, TF-TA, °C vs Elapsed Time, Hrs
- SP, cmH2O vs Elapsed Time, Hrs
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</table>
**BGI PQ200 Air Sampling System**

**Job Details:**
- **Job Name:** 16Apr13B_JOB
- **Version:** 5.62
- **Serial No.:** 963
- **Pump Time:** 3157:54

**Flags:**

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<tr>
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**QCV:** 0.58 %

**Max overheat:** 2.7 °C

Occurred: 12-apr 11:16:19

**Timer Information:**
- **Start:** 16-12-apr 00:00:08
- **Stop:** 16-13-apr 00:00:05
- **ET:** 23:59

**Mass Concentration Data:**
- **Filter ID:** 5
- **Final Wt:** mg
- **Initial Wt:** mg
- **Delta Wt:** 0.000 mg
- **Total Vol:** 24.042 m³
- **Mass Conc:** 0 µg/m³

**Notes 1:**

**Notes 2:**

---

**Graphs:**

- **Temps, °C**
- **Overheat, TF-TA, °C**
- **SP, cmH2O**

**Graph 1:**
- X-axis: Elapsed Time, Hrs
- Y-axis: Temps, °C
- Data points showing temperature variation over time.

**Graph 2:**
- X-axis: Elapsed Time, Hrs
- Y-axis: Overheat, TF-TA, °C
- Data points showing temperature deviation from a reference point over time.

**Graph 3:**
- X-axis: Elapsed Time, Hrs
- Y-axis: SP, cmH2O
- Data points showing static pressure measurements over time.
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BGI PQ200 Air Sampling System

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

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<tr>
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QCV: 0.5 %
Max Overheat: 3.5 °C
occurred 18-april 14:07:35

Notes 1:
Notes 2:

Timer Information:
Date | Time
---|---
Start: 16-18-april | 00:08
Stop: 16-19-april | 00:05

ET: 23:59

Mass Concentration Data:
Filter ID: 963B
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.037 m³
Mass Conc: 0 μg/m³
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BGI PQ200 Air Sampling System

Job Details:
Job Name: 16Apr25B.JOB
Version: 5.62
Serial No: 983
Pump Time: 3216:36

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

QCV 1.44 %
Max overheated 2.9 °C
occurred 24-apr 13:50:12

Notes 1:
Notes 2:

Timer Information:
Date Time
Start: 16-24-apr 0:00:08
Stop: 16-25-apr 10:44:03

Mass Concentration Data:
Filter ID: 17
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 34.787 m³

Mass Conc: 0 µg/m³

Graphs:
- Temps, °C
- Overheat, TF - TA, °C
- SP, cmH2O
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BGI PQ200 Air Sampling System

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

Flags:

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

QCV 0.57 %
Max Overheat 2.3 °C
occurred 30-apr 16:02:13

Notes 1:
Notes 2:

Timer Information:
Date Time
Start: 16-30-apr 0:00:08
Stop: 16-01-may 0:00:05
ET: 23:59

Mass Concentration Data:
Filter ID: 22
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.043 m³
Mass Conc: 0 µg/m³

Temps, °C

Overheat, TF- TA, °C

SP, cmH2O
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### BGI PQ200 Air Sampling System

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

**Mass Concentration Data:**
- **Filter ID:** 27
- **Final Wt.:** mg
- **Initial Wt.:** mg
- **Delta Wt.:** 0.000 mg
- **Total Vol.:** 24.041 m³
- **Mass Conc.:** 0 µg/m³

**Timer Information:**
- **Start:** 16-06-May 00:08
- **Stop:** 16-07-May 00:05
- **ET:** 23:59

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**TA**
| 16.1  | -0.8  | 7.8°C |

**Q**
| ---   | ---   | 16.7 Lpm |

**QC V**
| 0.58% |

Max overheat: 3.4°C occurred 07-May 12:50:50

**Notes:**
- Notes 1:
- Notes 2:

---

Overheat, TF-
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BGI PQ200 Air Sampling System

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

Flags:

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

QCV
Max overhear 2.6 °C
occurred 12-may 15:35:19

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

Mass Concentration Data:
- Filter ID: 32
- Final Wt: mg
- Initial Wt: mg
- Delta Wt: 0.000 mg
- Total Vol: 24.039 m³
- Mass Conc: 0 µg/m³

Notes 1:
Notes 2:

Graphs:
- Temps, °C vs. Elapsed Time, Hrs
- Overheat, TF-TA, °C vs. Elapsed Time, Hrs
- SP, cmH2O vs. Elapsed Time, Hrs
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BGI PQ200 Air Sampling System

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

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

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

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

Timer Information:
- Start: 16-18-may 0:00:08
- Stop: 16-19-may 0:00:05
- ET: 23:59

Mass Concentration Data:
- Filter ID: 
- Final Wt: mg
- Initial Wt: mg
- Delta Wt: 0.000 mg
- Total Vol: 24.041 m³
- Mass Conc: 0 µg/m³

Notes 1:
Notes 2:

Graphs showing:
- Temps, °C
- Overheat, TF- TA, °C
- SP, cmH2O

Elapsed Time, Hrs
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BGI PQ200 Air Sampling System

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

Flags:

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

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

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

Notes 1:
Notes 2:

Date
Time
Start: 16-24-may 00:00:08
Stop: 16-25-may 00:00:05

Mass Concentration Data:
Filter ID: 10
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.039 m³

Temporary Data:

Mass Conc: 0 μg/m³

Temperature, °C

Elapsed Time, Hrs

Overheat, °C

Elapsed Time, Hrs

SP, cmH2O

Elapsed Time, Hrs
### Hourly

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**BGI PQ200 Air Sampling System**

**Job Details:**
- Job Name: 16Jun06BJOB
- Version: 5.62
- Serial No: 983
- Pump Time: 3384:29

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

**QCV:** 0.47 %

Max Overheat 2.2 °C occurred 05-Jun 14:22:22

**Notes 1:**

**Notes 2:**

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

**Mass Concentration Data:**
- Filter ID: 38
- Final Wt: mg
- Initial Wt: mg
- Delta Wt: 0.000 mg
- Total Vol: 24.032 m³
- Mass Conc: 0 μg/m³

**Graphs:**
- Temperatures, °C
- Overheat, TF - TA, °C
- SP, cmH₂O
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BGI PQ200 Air Sampling System

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

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

Timer Information:
- Date: dd-mmm
- Time: hh:mm:ss
- Start: 16-11-jun 00:08
- Stop: 16-12-jun 00:04
- ET: 23:59

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

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# BGI PQ200 Air Sampling System

## Job Details:
- **Job Name:** 16Jun24B JOB
- **Version:** 5.62
- **Serial No:** 963
- **Pump Time:** 3456:26

## Flags:
- **User1:**
- **User2:**

## Max, Min, Avg, Units
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## QCV
- **0.41 %**

## Max Overheat
- **2.8 °C**
  - Occurred: 23-Jun 14:34:40

## Timer Information:
- **Date:** 16-23-jun
- **Time:** 00:08
- **Stop:** 16-24-jun
- **Time:** 00:05

## ET:
- **23:59**

## Mass Concentration Data:
- **Filter ID:** 5
- **Final Wt:** __________ mg
- **Initial Wt:** __________ mg
- **Delta Wt:** 0.000 mg
- **Total Vol:** 24,016 m³
- **Mass Conc:** 0 μg/m³

## Diagrams:
- **Temps, °C**
- **Overheat, TF - TA, °C**
- **SP, cmH₂O**
## Hourly

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| 16-23-jun | 2:05:08 | 593     | 14.1     | 12.3     | -1.9 | 26   | 16.71  
| 16-23-jun | 3:05:08 | 593     | 13.5     | 12.1     | -1.4 | 26   | 16.69  
| 16-23-jun | 4:05:08 | 593     | 12.9     | 11.4     | -1.5 | 26   | 16.72  
| 16-23-jun | 5:05:08 | 593     | 12.9     | 11.0     | -1.9 | 26   | 16.72  
| 16-23-jun | 6:05:08 | 594     | 18.0     | 15.7     | -2.2 | 27   | 16.73  
| 16-23-jun | 7:05:08 | 594     | 23.3     | 21.9     | -1.3 | 28   | 16.74  
| 16-23-jun | 8:05:08 | 594     | 24.7     | 25.4     | 0.7  | 29   | 16.65  
| 16-23-jun | 9:05:08 | 594     | 26.4     | 27.2     | 0.9  | 29   | 16.68  
| 16-23-jun | 10:05:08| 594     | 27.6     | 28.6     | 1.0  | 30   | 16.69  
| 16-23-jun | 11:05:08| 594     | 29.0     | 29.7     | 0.6  | 30   | 16.72  
| 16-23-jun | 12:05:08| 594     | 29.4     | 30.3     | 0.9  | 30   | 16.71  
| 16-23-jun | 13:05:08| 593     | 30.5     | 31.4     | 0.9  | 31   | 16.72  
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| 16-23-jun | 15:05:08| 592     | 31.5     | 32.9     | 1.5  | 31   | 16.72  
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| 16-23-jun | 17:05:08| 592     | 30.2     | 31.6     | 1.4  | 31   | 16.70  
| 16-23-jun | 18:05:08| 592     | 28.4     | 29.5     | 1.0  | 31   | 16.73  
| 16-23-jun | 19:05:08| 592     | 25.9     | 26.2     | 0.2  | 30   | 16.74  
| 16-23-jun | 20:05:08| 592     | 20.1     | 20.6     | 0.5  | 30   | 16.73  
| 16-23-jun | 21:05:08| 593     | 17.7     | 16.8     | -0.9 | 29   | 16.71  
| 16-23-jun | 22:05:08| 593     | 16.4     | 15.3     | -1.1 | 29   | 16.71  
<p>| 16-23-jun | 23:05:08| 593     | 15.5     | 14.2     | -1.4 | 29   | 16.71  |</p>
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Collocated Monitor 964C
### PM$_{10}$ Sampler Summary

**April 1, 2016 - June 30, 2016**

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

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#### Recovery  
100%  
#### Average  
21.4  
#### St. Dev.  
17.5  
#### Max  
61.0  
#### Min  
1.8
BGI PQ200 Air Sampling System

Job Details:
- Job Name: 16Apr02C.JOB
- Version: 5.62
- Serial No: 964
- Pump Time: 5257:15

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- Max overheat: 3.3 °C
- Occurred: 31-mar 14:52:51

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- Stop: 16-01-apr

Mass Concentration Data:

- Filter ID: 31
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- Final Wt: mg
- Delta Wt: 0.000 mg
- Total Vol: 24.042 m³
- Mass Conc: 0 μg/m³

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**BGI PQ200 Air Sampling System**

**Job Details:**
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- Version: 5.62
- Serial No: 964
- Pump Time: 5281:15
- Flags:

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**QCV**
- 0.56 %
- Max overhear 2.7 °C occurred 06-apr 14:43:47

**Timer Information:**
- Date: dd-mmm
- Time: hh:mm:ss
- Start: 16-06-apr 0:00:08
- Stop: 16-07-apr 0:00:05
- ET: 24:00:00

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

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BGI PQ200 Air Sampling System

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

Flags:

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

QCV  0.56 %
Max overheat  3.8°C
occurred 18-apr 14:17:45

Notes 1:
Notes 2:

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

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

Graphs:
- Temps, °C
- Overheat, TF - TA, °C
- SP, cmH2O
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**BGI PQ200 Air Sampling System**

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

**Max, Min, Avg, Units**
- **BP:** 589, 585, 587 mmHg
- **TA:** 8.9, 0.4, 3.2 °C
- **Q:** ---, ---, 16.7 Lpm
- **QCV:** 0.56 %
- **Max Overheat:** 2.5 °C
- **Occurred:** 30-apr 16:01:11

**Timer Information:**
- **Date:**
- **Time:**
- **Start:** 16-30-apr 0:00:08
- **Stop:** 16-01-may 0:00:05
- **ET:** 23:59

**Mass Concentration Data:**
- **Filter ID:** 23
- **Final Wt.:** mg
- **Initial Wt.:** mg
- **Delta Wt.:** 0.000 mg
- **Total Vol.:** 24.038 m^3
- **Mass Conc.:** 0 μg/m^3

**Notes:**
- **Note 1:**
- **Note 2:**

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**Graphs:**
- **Temps, °C**
- **Overheat, °C**
- **SP, cmH20**
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BGI PQ200 Air Sampling System

Job Details:
- Job Name: 16May13CJOB
- Version: 5.62
- Serial No: 964
- Pump Time: 5425:09

Job Code:
- Site Name: 964C
- Station Code: Operators: KN

Flags:
- User1:
- User2:

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

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

Notes 1:
Notes 2:

Timer Information:
- Date: 16-12-may
- Time: 0:00:08
- Start: 16-12-may
- Stop: 16-13-may
- ET: 23:59

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

Temps, °C

Overheat, TF, TA, °C

SP, cmH2O
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**BGI PQ200 Air Sampling System**

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

**Flags:**
- **Max Overheat:** 2.6 °C
- **QC V:** 0.58 %

**Units:**
- **BP:** mmHg
- **TA:** °C
- **Q:** Lpm

**Timer Information:**
- **Start:** 16-24-May 00:08
- **Stop:** 16-25-May 00:05
- **ET:** 23:59

**Mass Concentration Data:**
- **Filter ID:** 11
- **Final Wt:** mg
- **Initial Wt:** mg
- **Delta Wt:** 0.000 mg
- **Total Vol:** 24.042 m³
- **Mass Conc:** 0 µg/m³

**Notes:**
1. Notes 1:
2. Notes 2:

---

### Graphs

**Temps, °C**
- **TA**
- **TF**

**Overheat, TF-TA, °C**

**SP, cmH2O**
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**BGI PQ200 Air Sampling System**

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

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

**QCV**
- **Max overheat:** 2.3 °C
- **occurred:** 05-jun 14:15:48

**Notes 1:**

**Notes 2:**

**Flags:**

**Timer Information:**
- **Date**
  - **Start:** 16-05-jun
  - **Stop:** 16-06-jun
- **Time**
  - **Start:** 00:08
  - **Stop:** 00:05
  - **ET:** 23:59

**Mass Concentration Data:**
- **Filter ID:** 17
- **Final Wt:** mg
- **Initial Wt:** mg
- **Delta Wt:** 0.000 mg
- **Total Vol:** 24.04 m^3
- **Mass Conc:** 0 μg/m^3
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Job Details:
Job Name: 16Jun14C.JOB
Version: 5.62
Serial No: 964
Pump Time: 5545:04
Flags: 

BP Max Min Avg Units
595 591 594 mmHg

TA Max Min Avg Units
24.3 8.9 16.6 °C

Q Max Min Avg Units
--- --- 16.7 Lpm

QCV Max Min Avg Units
0.57 %

Max overdose " 3.7 °C
occurred 11-jun 15:49:08

Notes 1:
Notes 2:

Timer Information:
Date Time
dd-mmm hh:mm:ss
Start: 16-11-jun 0:00:08
Stop: 16-12-jun 0:00:05

Mass Concentration Data:
Filter ID: 23
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.042 m^3

Mass Conc: 0 μg/m^3

Temps, °C

Elapsed Time, Hrs

Overheat, TF-
TA, °C

Elapsed Time, Hrs

SP, cmH20

Elapsed Time, Hrs
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**BGI PQ200 Air Sampling System**

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

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**QCV:** 0.56 %

Max overheat 3.4 °C occurred 19-jun 14:07:13

**Timer Information:**
- **Date:**
  - **Start:** 16-17-jun
  - **Stop:** 16-18-jun
- **Time:**
  - **Start:** 00:00:08
  - **Stop:** 00:00:05

**ET:** 23:59

**Mass Concentration Data:**
- **Filter ID:** 29
- **Final Wt.:** mg
- **Initial Wt.:** mg
- **Delta Wt.:** 0.000 mg
- **Total Vol.:** 24.041 m³
- **Mass Conc.:** 0 µg/m³

**Notes:**
- Notes 1:
- Notes 2:

**Graphs:**
- **Temps, °C**
- **Overheat, TF - TA, °C**
- **SP, cmH20**
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**BGI PQ200 Air Sampling System**

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

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

**OCV:** 0.55 %

**Max Overheat:** 4 °C

**Occured:** 30-Jun 15:33:18

**Notes 1:**
- 

**Notes 2:**
- 

**Timer Information:**
- **Date:** 16-29-jun
- **Time:** 0:00:08
- **Start:**
- **Date:** 16-30-jun
- **Time:** 0:00:05
- **Stop:**

**ET:** 23:59

**Mass Concentration Data:**
- **Filter ID:** 11
- **Final Wt.:**
- **Initial Wt.:**
- **Delta Wt.:** 0.000 mg
- **Total Vol.:** 24.04 m³
- **Mass Conc.:** 0 µg/m³

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**Graphs:**
- **Temps, °C**
- **Overheat, TF - TA, °C**
- **SP, cmH2O**

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Compliance Monitor 2366D
## PM$_{10}$ Sampler Summary

**April 1, 2016 - June 30, 2016**

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

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### BGI PQ200 Air Sampling System

**Job Details:**
- **Job Name:** 16Apr02D.JOB
- **Version:** 5.62
- **Serial No:** 2366
- **Pump Time:** 279:13

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**Notes:**
1. Max overheat: 3 °C occurred 31-Mar 15:44:00

### Timer Information:
- **Date:** 16-31-mar
- **Time:** 00:08
- **End Time:** 23:59

### Mass Concentration Data:
- **Filter ID:** 32
- **Final Wt:** 145.10 mg
- **Initial Wt:** 144.67 mg
- **Delta Wt:** 0.43 mg
- **Total Vol:** 24.037 m³

- **Mass Conc:** 0 µg/m³

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**Graphs:**
- **Temps, °C**
- **Overheat, TA-TF, °C**
- **SP, cmH2O**

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### BGI PQ200 Air Sampling System

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

#### Job Code:
- **Site Name:**
- **Station Code:**
- **Operators:**
  - User1: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy
  - User2: wwww

#### Temperature and Pressure:
- **BP:**
  - Max: 598 mmHg
  - Min: 594 mmHg
  - Avg: 596 mmHg
- **TA:**
  - Max: 20.5 °C
  - Min: -4.5 °C
  - Avg: 9.3 °C
- **Q:**
  - Max: --- Lpm
  - Min: --- Lpm
  - Avg: 16.7 Lpm

#### Timer Information:
- **Date:**
  - Start: 16-06-apr
  - Stop: 16-07-apr
- **Time:**
  - Start: 00:08
  - Stop: 00:05

#### Mass Concentration Data:
- **Filter ID:** 37
- **Final Wt.:** mg
- **Initial Wt.:** mg
- **Delta Wt.:** 0.000 mg
- **Total Vol.:** 24.04 m³
- **Mass Conc.:** 0 ug/m³

#### Notes:
1. Notes 1:
2. Notes 2:

### Graphs:
- **Temperature Graph**
- **Overheat Graph**
- **SP Graph**
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BGI PQ200 Air Sampling System

Job Details:
- Job Name: 16Apr13DJOB
- Version: 5.62
- Serial No: 2366
- Pump Time: 327:11

Flags:

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

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

Notes 1:
Notes 2:

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

Mass Concentration Data:
- Filter ID: 7
- Final Wt: mg
- Initial Wt: mg
- Delta Wt: 0.000 mg
- Total Vol: 24.041 m³
- Mass Conc: 0 μg/m³
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BGI PQ200 Air Sampling System

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

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

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

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

Timer Information:
- Start: 16-24-apr 0:00:08
- Stop: 16-25-apr 0:00:05
- ET: 23:59

Mass Concentration Data:
- Filter ID: 19
- Final Wt: mg
- Initial Wt: mg
- Delta Wt: 0.000 mg
- Total Vol: 24.04 m³
- Mass Conc: 0 μg/m³

Notes 1:
- Notes 2:

Overhaast, TF.
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BGI PQ200 Air Sampling System

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

Max Min Avg Units
BP 587 584 585 mmHg
TA 9.2 -0.4 3.1 °C
Q --- --- 16.7 Lpm

QCV 0.55 %
Max overheat 3.2 °C
occured 30-apr 16:01:11

Notes 1:
Notes 2:

Timer Information:
Start: 16-30-apr 0:00:08
Stop: 16-01-may 0:00:04
ET: 23:59

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

Graphs:
1. Temps, °C
2. Overheat, TF-TA, °C
3. SP, cmH2O
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BGI PQ200 Air Sampling System

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

Flags:
- User1: 
- User2: 

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

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

Timer Information:
- Start: 16-06-may 0:00:08
- Stop: 16-07-may 0:00:05
- ET: 23:59

Mass Concentration Data:
- Filter ID: 29
- Final Wt: mg
- Initial Wt: mg
- Delta Wt: 0.000 mg
- Total Vol: 24.04 m³
- Mass Conc: 0 μg/m³

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BGI PQ200 Air Sampling System

Job Details:
- Job Name: 16May13D JOB
- Version: 5.62
- Serial No: 2366
- Pump Time: 447:06

Flags:

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QCV: 0.56 %
Max Overheat: 3.3 °C
Occurred: 12-May 14:34:41

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

Mass Concentration Data:
- Filter ID: 34
- Final Wt: mg
- Initial Wt: mg
- Delta Wt: 0.000 mg
- Total Vol: 24.04 m^3

Notes 1:
Notes 2:

![Graphs and diagrams showing temperature, airflow, and concentration data over time.](image-url)
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**BGI PQ200 Air Sampling System**

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

**Job Code:**
- **Site Name:** 2366D
- **Station Code:**
- **Operators:** KN
- **User1:** yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy
- **User2:** yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy

**Max Min Avg Units**

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**QCv:** 0.86 %

**Max Overheat:** 3.7 °C

**Occurred:** 19-May 15:19:17

**Timer Information:**

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**ET:** 53:03:00

**Mass Concentration Data:**

- **Filter ID:** 7
- **Final Wt:** mg
- **Initial Wt:** mg
- **Delta Wt:** 0.000 mg
- **Total Vol:** 53.14 m³

**Mass Conc:** 0 µg/m³

**Notes 1:**

**Notes 2:**

---

**Temps, °C**

**Elapsed Time, Hrs**

**Overheat, TF - TA °C**

**Elapsed Time, Hrs**

**SP, cmH²O**

**Elapsed Time, Hrs**
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BGI PQ200 Air Sampling System

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

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QCV 0.55 %

Max overheat 3 °C occurred 24-may 15:39:33

Notes 1:
- Notes 2:

Timer Information:
- Start: 16-24-may 0:00:08
- Stop: 16-25-may 0:00:05
- ET: 23:59

Mass Concentration Data:
- Filter ID: 12
- Final Wt: mg
- Initial Wt: mg
- Delta Wt: 0.000 mg
- Total Vol: 24.039 m³
- Mass Conc: 0 µg/m³

Temps, °C

Overheat, TF - TA, °C

SP, cmH₂O
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## BGI PQ200 Air Sampling System

### Job Details:
- **Job Name:** 16Jun14D.JOB
- **Version:** 5.62
- **Serial No:** 2366
- **Pump Time:** 610:31

### Flags:
- **BP**
  - Max: 592
  - Min: 590
  - Avg: 591
  - Units: mmHg
- **TA**
  - Max: 23.9
  - Min: 9.1
  - Avg: 16.1
  - Units: °C
- **Q**
  - Max: ---
  - Min: ---
  - Avg: 16.7
  - Units: Lpm
- **Max overheat**
  - Occurred: 12-jun 21:04:30
  - Value: 5.1 °C

### Timer Information:
- **Start:** 16-11-jun 0:00:08
- **Stop:** 16-12-jun 0:00:05
- **ET:** 23:59

### Mass Concentration Data:
- **Filter ID:** 24
- **Final Wt:** mg
- **Initial Wt:** mg
- **Delta Wt:** 0.000 mg
- **Total Vol:** 24.041 m³
- **Mass Conc:** 0 µg/m³

### Notes:
- **Notes 1:**
- **Notes 2:**

### Graphs:
- **Temps, °C**
- **Overheat, TF - TA, °C**
- **SP, cmH2O**
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### BGI PQ200 Air Sampling System

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

**Operators:**
- User1: 
- User2: 

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**QCV**
- 0.53 %

**Max overhear**
- 4.9 °C
- Occurred: 18-jun 20:05:11

**Temp Graph**
- **Temps. °C**
- **Elapsed Time, Hrs**

**Overheat Graph**
- **Overheat, TF- TA, °C**
- **Elapsed Time, Hrs**

**Mass Concentration Data:**
- **Filter ID:** 30
- **Final Wt:** mg
- **Initial Wt:** mg
- **Delta Wt:** 0.000 mg
- **Total Vol:** 24.041 m³

**Notes 1:**

**Notes 2:**

**Timer Information:**
- **Date**
- **Time**
- **Start:** 16-17-jun 0:00:08
- **Stop:** 16-18-jun 0:00:05

**ET:** 23:59

**Mass Conc:** 0 µg/m³
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**BGI PQ200 Air Sampling System**

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

**Flags:**
- User1: 
- User2: 

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**QCV:** 0.52 %

Max overhear **occurred** 23-jun 15:42:39

**Notes 1:**
**Notes 2:**

**Timer Information:**
- **ET:** 23:59

**Mass Concentration Data:**
- **Filter ID:** 7
- **Final Wt:** mg
- **Initial Wt:** mg
- **Delta Wt:** 0.000 mg
- **Total Vol:** 24.038 m^3
- **Mass Conc:** 0 μg/m^3

**Graphs:**
- **Temps, °C**
- **Overheat, TF - TA, °C**
- **SP, cmH2O**
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**BGI PQ200 Air Sampling System**

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

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**Mass Concentration Data:**
- **Filter ID:** 12
- **Final Wt:** mg
- **Initial Wt:** mg
- **Delta Wt:** 0.000 mg
- **Total Vol:** 24.039 m³
- **Mass Conc:** 0 µg/m³

**Notes 1:**
- **Notes 2:**

---

**Timer Information:**
- **Date**
- **Time**
- **Start:** 16-29-jun 0:00:08
- **Stop:** 16-30-jun 0:00:04
- **ET:** 23:59

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**Graphs:**
- **Temps, °C**
- **Overheat, TF - TA, °C**
- **SP, cmH2O**
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Collocated Monitor 2398E
PM$_{10}$ Sampler Summary

April 1, 2016 - June 30, 2016

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

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BGI PQ200 Air Sampling System

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

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QCV 0.46 %
Max overload 4.3 °C
occurred 12-apr 12:55:49

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

Mass Concentration Data:
- Filter ID: 8
- Final Wt: mg
- Initial Wt: mg
- Delta Wt: 0.000 mg
- Total Vol: 24.036 m³
- Mass Conc: 0 μg/m³

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BGI PQ200 Air Sampling System

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

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

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QCV 0.46 %

Max Overheat 4.2 °C

occurred 18-april 16:03:04

Notes 1:
- Notes 2:

Timer Information:
- Date: 16-18-apr
- Time: 00:08
- Start: 16-18-apr 00:08
- Stop: 16-19-apr 00:05
- ET: 23:59

Mass Concentration Data:
- Filter ID: 40
- Final Wt: mg
- Initial Wt: mg
- Delta Wt: 0.000 mg
- Total Vol: 24.035 m³
- Mass Conc: 0 μg/m³

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- Notes 2:

Charts:
- Temperatures (°C)
- Overheat (°C)
- SP (cmH₂O)
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**BGI PQ200 Air Sampling System**

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

**BP**
- **Max:** 587 mmHg
- **Min:** 584 mmHg
- **Avg:** 585 mmHg

**TA**
- **Max:** 9.3 °C
- **Min:** -0.2 °C
- **Avg:** 3.3 °C

**Q**
- **Max:** 16.7 Lpm
- **Min:** ___
- **Avg:** ___

**OCV**
- **Max overheat:** 0.48 %

**Max occurred:** 30-apr 16:00:51

**Notes 1:**

**Notes 2:**

**Timer Information:**
- **Start:** 16-30-apr 00:08
- **Stop:** 16-01-may 00:05
- **ET:** 23:59

**Mass Concentration Data:**
- **Filter ID:** 25
- **Final Wt:** ___ mg
- **Initial Wt:** ___ mg
- **Delta Wt:** 0.000 mg
- **Total Vol:** 24.033 m³

**Mass Conc:** 0 μg/m³
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BGI PQ200 Air Sampling System

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

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

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

QCV 0.47 %
Max overheat 4.7 °C
occurred 07-may 12:50:46

Notes 1:
Notes 2:

Timer Information:
Date Time
Start: 16-06-may 0:00:08
Stop: 16-07-may 0:00:05

ET: 23:59

Mass Concentration Data:
Filter ID: 30
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.033 m³

Mass Conc: 0 μg/m³
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BGI PQ200 Air Sampling System

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

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

QCV 0.46 %
Max overheat 3.3 °C
occurred 12-May 16:18:20

Notes 1:
Notes 2:

Timer Information:
Date Time
Start: 16-12-May 0:00:08
Stop: 16-13-May 0:00:04
ET: 23:59

Mass Concentration Data:
Filter ID:
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.034 m³
Mass Conc: 0 µg/m³
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BGI PQ200 Air Sampling System

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

Job Code:
- Site Name: 2398E
- Station Code: KN
- User1: User2: 

Flags:

BP

Max Min Avg Units
592 589 590 mmHg

TA

Max overheat 0.49 %
occurred 19-may 11:52:19

Q = -- 16.7 Lpm

QC

8.8 °C

Notes 1:
Notes 2:

Timer Information:
- Start: 16-18-may 0:00:08
- Stop: 16-19-may 0:00:05
- ET: 23:59

Mass Concentration Data:
- Filter ID: 8
- Final Wt: mg
- Initial Wt: mg
- Delta Wt: 0.000 mg
- Total Vol: 24.037 m³

Mass Conc.: 0 μg/m³
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BGI PQ200 Air Sampling System

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

Flags:

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

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

Timer Information:
Date Time
Start: 16-24-apr 0:00:08
Stop: 16-25-apr 0:00:05
ET: 23:59

Mass Concentration Data:
Filter ID: 20
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.01 m^3

Mass Conc: 0 µg/m^3

Notes 1:
Notes 2:

Graphs:
1. Temps, °C vs Elapsed Time, Hrs
2. Overheat, TF - TA, °C vs Elapsed Time, Hrs
3. SP, cmH2O vs Elapsed Time, Hrs
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BGI PQ200 Air Sampling System

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

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QCV: 0.42 %
Max overheat occurred: 05-Jun 19:41:10

Notes 1:
Notes 2:

Timer Information:
- Date: 16-05-jun
- Time: 00:08
- Start: 16-05-jun 0:00:08
- Stop: 16-06-jun 0:00:05
- ET: 23:59

Mass Concentration Data:
- Filter ID: 20
- Final Wt: mg
- Initial Wt: mg
- Delta Wt: 0.000 mg
- Total Vol: 24.035 m³
- Mass Conc: 0 µg/m³

Graphs:
- Temps, °C
- Overheat, TF- TA, °C
- SP, cmH2O
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BGI PQ200 Air Sampling System

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

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

QC V: 0.47 %
Max overheat: 5.1 °C
occurred: 12-jun 21:04:01

Notes 1:
Notes 2:

Timer Information:

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ET: 23:59

Mass Concentration Data:
Filter ID: 25
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.035 m³

Mass Conc: 0 µg/m³
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BGI PQ200 Air Sampling System

Job Details:
- Job Name: 16Jun20E JOB
- Version: 5.62
- Serial No: 2398
- Pump Time: 574:37

Flags:

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

QCV 0.47 %
Max Overheat 4.9 °C
occurred 18-jun 20:04:47

Notes 1:
Notes 2:

Timer Information:
Date Time
Start: 16-17-jun 0:00:08
Stop: 16-18-jun 0:00:05
ET: 23:59

Mass Concentration Data:
Filter ID: 31
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.034 m³
Mass Conc: 0 μg/m³

Graphs:
- Temps, °C
- Overheat, TF - TA, °C
- SP, cmH20
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BGI PQ200 Air Sampling System

Job Details:
Job Name: 16Jul01E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 622.35

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

Flags:

Timer Information:
Date Time
Start: 16-29-jun 0:00:08
Stop: 16-30-jun 0:00:05

ET: 23:59

Mass Concentration Data:
Filter ID: 32
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.034 m³

Max overheat 4.4 °C
occurred 30-jun 15:22:36

Mass Conc: 0 µg/m³

Notes:
Notes 1:
Notes 2:

Temps, °C

Overheat, TF-
TA, °C

SP, cmH₂O
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APPENDIX C

Precision and Single-Point Flow Rate Checks
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<tr>
<th>Monitors 963B &amp; 964C</th>
<th>Pollutant type:</th>
<th>CV&lt;sub&gt;ab (%)&lt;/sub&gt;</th>
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<td>Meas Val (Y)</td>
<td>Audit Val (X)</td>
<td>&lt;sup&gt;d&lt;/sup&gt; (Eqn 10)</td>
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CV (%) (Eqn 11) = 18.96

**Percent Differences**

```
    Series1
```

**Alton Coal Development, LLC - Coal Hollow Mine**

**Precision Estimate (From Collocated Samples)**
### Site ID: Monitor 962A

**Pollutant type:**

| Meas Val (Y) | Audit Val (X) | d (Eqn. 1) | 25th Percentile | d^2 | |d| | |d|^2 |
|--------------|---------------|------------|-----------------|-----|---|---|---|
| 16.7         | 16.84         | -0.831     | -2.005          | 0.691 | 0.831 | 0.691 |
| 16.7         | 17.11         | -2.396     | 5.742           | 2.396 | 5.742 |

| n | Σ|d| | 2 | (Eqn 4) | n-1 | Σ|d|^2 | "AS" (Eqn 5) |
|---|---|---|---|---|---|---|---|---|---|
| 2 | 3.228 | 1.614 |
| 1 | 6.433 | 1.107 |

**Bias (%) (Eqn 3)**

- Both Signs Positive
  - 6.55
  - FALSE

- Signed Bias (%)
  - Both Signs Negative
  - -6.55
  - TRUE

### Percent Differences

- Series 1
### Alton Coal Development, LLC - Coal Hollow Mine

**One-Point Flow Rate Bias Estimate**

| Site ID: Monitor 963B | Pollutant type: Alton Coal Development, LLC - Coal Hollow Mine |

<table>
<thead>
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<th>Meas Val (Y)</th>
<th>Audit Val (X)</th>
<th>d (Eqn. 1)</th>
<th>25th Percentile</th>
<th>d²</th>
<th></th>
<th></th>
<th>75th Percentile</th>
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</table>

| n | \( \sum |d| \) | “AB” (Eqn 4) | 0.768 |
|---|---|---|---|
| 2 | 1.536 | "AS" (Eqn 5) | 0.917 |
| n-1 | \( \sum d^2 \) | Both Signs Positive | FALSE |
| 1 | 2.022 | Both Signs Negative | TRUE |

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<th>Bias (%) (Eqn 3)</th>
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<td>Signed Bias (%)</td>
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**Percent Differences**

![Percent Differences Graph](image-url)
### Alton Coal Development, LLC - Coal Hollow Mine

#### One-Point Flow Rate Bias Estimate

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</table>

**Bias (%)**

| 25th Percentile | 75th Percentile | d (Eqn. 1) | d^2 | |d| | |d|^2 |
|-----------------|-----------------|------------|-----|-----|-----|-----|
| 2.706           | 7.323           | 0.319      | 7.323| 2.706| 7.323|
| -0.477          | 2.706           | 7.323      | 0.319| 1.910| 3.183|

| n    | ∑|d|   | n-1 | ∑|d|^2  |
|------|-----|-----|-----|-----|------|
| 2    | 3.183 | 1.591|
| 1    | 7.550 | 1.576|

- **Bias (%) (Eqn 3)**
  - Both Signs Positive: 8.63 TRUE
  - Both Signs Negative: +8.63 FALSE

#### Percent Differences

![Percent Differences Chart](chart.png)

- Series1

---

Note: The values and calculations are approximate and provided for illustrative purposes. Actual calculations and values may differ.
Alton Coal Development, LLC - Coal Hollow Mine - NPL

**Precision Estimate (From Collocated Samples)**

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<td>75th Percentile</td>
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<td>27.4</td>
<td>-10.4</td>
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<tr>
<td>72.8</td>
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<tr>
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<td>48.4</td>
<td>47.6</td>
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</table>

- **Series 1**

---

**Percent Differences**

![Percent Differences Graph](image-url)
## One-Point Flow Rate Bias Estimate

### Site ID: Monitor 2366D

<table>
<thead>
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<th>Pollutant type:</th>
<th>25th Percentile</th>
<th>75th Percentile</th>
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<tbody>
<tr>
<td>Meas Val (Y)</td>
<td>Audit Val (X)</td>
<td>d (Eqn. 1)</td>
</tr>
<tr>
<td>16.72</td>
<td>16.03</td>
<td>-4.304</td>
</tr>
<tr>
<td>16.72</td>
<td>16.76</td>
<td>-0.239</td>
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</tbody>
</table>

| Bias (%)       | n   | ∑|d|   | “AB” (Eqn 4) | n-1  | ∑|d|²   | “AS” (Eqn 5) |
|----------------|-----|-----|-----|-------------|------|-----|-----|-------------|
| Both Signs Positive | 2   | 4.543         | 2.272|             | 1    | 18.585 | 2.875|             |
| Both Signs Negative |     |               |      |             |      |       |      |             |

- **Bias (%) (Eqn 3)**: 15.11
- **Signed Bias (%)** (+15.11)

### Percent Differences

**Series 1**

![Percent Differences Graph](image)
### Alton Coal Development, LLC - Coal Hollow Mine

#### One-Point Flow Rate Bias Estimate

<table>
<thead>
<tr>
<th>Site ID: Monitor 2398E</th>
<th>Pollutant type:</th>
<th>Bias (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meas Val (Y)</td>
<td>Audit Val (X)</td>
<td>$d$ (Eqn. 1)</td>
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<td>16.85</td>
<td>-0.890</td>
</tr>
<tr>
<td>16.7</td>
<td>16.87</td>
<td>-1.008</td>
</tr>
</tbody>
</table>

| $n$ | $\sum |d|$ | $\sum |d|^2$ |
|-----|-----------|-----------|
| 2   | 1.898     | 0.949     |
| $n-1$ | 1.808   | 0.083     |

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

**Percent Differences**

![Percent Differences Graph]

---

- Series 1
APPENDIX D

Field Data Sheets
# Background Monitor 962A

## Table I - Every 6th Day Sampling

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Displayed Date</th>
<th>Displayed Time</th>
<th>Collected Filter ID#</th>
<th>New Filter ID#</th>
<th>Sample Start Time</th>
<th>Sample Start Date</th>
<th>Sampler Initials</th>
</tr>
</thead>
<tbody>
<tr>
<td>04-24-16</td>
<td>10:47</td>
<td>04-24-16</td>
<td>9:17</td>
<td>13</td>
<td>16</td>
<td>M-M</td>
<td>4/19/16</td>
<td>KN</td>
</tr>
<tr>
<td>05-09-16</td>
<td>10:32</td>
<td>05-09-16</td>
<td>9:30</td>
<td>16</td>
<td>21</td>
<td>M-M</td>
<td>5/09/16</td>
<td>JKS</td>
</tr>
<tr>
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<td>JKS</td>
</tr>
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<td>8:22</td>
<td>7</td>
<td>9</td>
<td>M-M</td>
<td>6/12/16</td>
<td>JKS</td>
</tr>
<tr>
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<td>05:32</td>
<td>06-29-16</td>
<td>0:31</td>
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<td>6/29/16</td>
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<td>07-06-16</td>
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<td>16</td>
<td>M-M</td>
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<td>JKS</td>
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</table>

## Table II - Monthly Leak Test

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Initial SP Value</th>
<th>Final SP Value</th>
<th>Pass/Fail</th>
<th>Initials</th>
<th>Maintenance</th>
</tr>
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<tbody>
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<tr>
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## Table III - Monthly Flow Rate Verification

<table>
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<th>Date</th>
<th>Time</th>
<th>Monitor Flow (Q Lpm)</th>
<th>Monitor Baro Pressure (mmHg)</th>
<th>Delta Cal Baro Pressure (mmHg)</th>
<th>Monitor Temp (A)</th>
<th>Delta Cal Temp (Ta)</th>
<th>Delta Cal Flow (Qs)</th>
<th>Delta Cal Flow (Qa)</th>
<th>Accuracy</th>
<th>Initials</th>
</tr>
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<tbody>
<tr>
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## Compliance Monitor 963B

### Table I - Every 6th Day Sampling

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<th>Displayed Time</th>
<th>Collected Filter ID#</th>
<th>New Filter ID#</th>
<th>Sample Start Time</th>
<th>Sample Start Date</th>
<th>Sampler Initials</th>
</tr>
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<td>9:19</td>
<td>14</td>
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<td>22</td>
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Table II - Monthly Leak Test

<table>
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<tr>
<th>Date</th>
<th>Time</th>
<th>Initial SP Value</th>
<th>Final SP Value</th>
<th>Pass/Fail</th>
<th>Initials</th>
<th>Maintenance</th>
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<td>110</td>
<td>108</td>
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<td>KN</td>
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Table III - Monthly Flow Rate Verification

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Monitor Flow (Q, Lpm)</th>
<th>Monitor Baro Pressure (mmHg)</th>
<th>Delta Cal Baro Pressure (mmHg)</th>
<th>Monitor Temp (A)</th>
<th>Delta Cal Temp (Ta)</th>
<th>Delta Cal Flow (Qs)</th>
<th>Delta Cal Flow (Qa)</th>
<th>Accuracy</th>
<th>Initials</th>
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</thead>
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<td>20.7°C</td>
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<td>16.72</td>
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</tr>
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<td>05-12-16</td>
<td>12:10</td>
<td>16.90</td>
<td>591</td>
<td>592</td>
<td>20.9°C</td>
<td>21.6°C</td>
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Table I - Every 6th Day Sampling

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<th>Displayed Time</th>
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<th>New Filter ID#</th>
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</table>

Table II - Monthly Leak Test

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Initial SP Value</th>
<th>Final SP Value</th>
<th>Pass/Fail</th>
<th>Initials</th>
<th>Maintenance</th>
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<td>KNP</td>
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</table>

Table III - Monthly Flow Rate Verification

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Monitor Flow (Q Lpm)</th>
<th>Monitor Baro Pressure (mmHg)</th>
<th>Delta Cal Baro Pressure (mmHg)</th>
<th>Monitor Temp (A)</th>
<th>Delta Cal Temp (Ta)</th>
<th>Delta Cal Flow (Qs)</th>
<th>Delta Cal Flow (Qa)</th>
<th>Accuracy</th>
<th>Initials</th>
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<td>10:26</td>
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<td>16.26</td>
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### Table I - Every 6th Day Sampling

<table>
<thead>
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<th>Date</th>
<th>Time</th>
<th>Displayed Date</th>
<th>Displayed Time</th>
<th>Collected Filter ID#</th>
<th>New Filter ID#</th>
<th>Sample Start Time</th>
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<th>Sampler Initials</th>
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<td>JKS</td>
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</table>

### Table II - Monthly Leak Test

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Initial SP Value</th>
<th>Final SP Value</th>
<th>Pass/Fail</th>
<th>Initials</th>
<th>Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>04-24-16</td>
<td>10:54</td>
<td>98</td>
<td>97</td>
<td>Pass</td>
<td>KN</td>
<td></td>
</tr>
<tr>
<td>05-21-16</td>
<td>12:55</td>
<td>99</td>
<td>97</td>
<td>Pass</td>
<td>KN</td>
<td></td>
</tr>
</tbody>
</table>

### Table III - Monthly Flow Rate Verification

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Monitor Flow (Q Lpm)</th>
<th>Monitor Baro Pressure (mmHg)</th>
<th>Delta Cal Baro Pressure (mmHg)</th>
<th>Monitor Temp (A)</th>
<th>Delta Cal Temp (Ta)</th>
<th>Delta Cal Flow (Qs)</th>
<th>Delta Cal Flow (Qa)</th>
<th>Accuracy</th>
<th>Initials</th>
</tr>
</thead>
<tbody>
<tr>
<td>04-29-16</td>
<td>11:00</td>
<td>16.72</td>
<td>589</td>
<td>590</td>
<td>2.12</td>
<td>21.8</td>
<td>13.02</td>
<td>16.26</td>
<td>4.7</td>
<td>KN</td>
</tr>
<tr>
<td>05-01-16</td>
<td>11:00</td>
<td>16.72</td>
<td>589</td>
<td>590</td>
<td>2.31</td>
<td>25.0</td>
<td>13.08</td>
<td>16.76</td>
<td>-0.24</td>
<td>KN</td>
</tr>
</tbody>
</table>
### Table I - Every 6th Day Sampling

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Displayed Date</th>
<th>Displayed Time</th>
<th>Collected Filter ID#</th>
<th>New Filter ID#</th>
<th>Sample Start Time</th>
<th>Sample Start Date</th>
<th>Sampler Initials</th>
</tr>
</thead>
<tbody>
<tr>
<td>04-29-16</td>
<td>11:11</td>
<td>04-29-16</td>
<td>11:11</td>
<td>40</td>
<td>20</td>
<td>M-M</td>
<td>04/29/16</td>
<td>KN</td>
</tr>
<tr>
<td>05-02-16</td>
<td>11:09</td>
<td>05-02-16</td>
<td>11:09</td>
<td>25</td>
<td>25</td>
<td>M-M</td>
<td>05/02-16</td>
<td>JKS</td>
</tr>
<tr>
<td>05-09-16</td>
<td>16:52</td>
<td>05-09-16</td>
<td>16:52</td>
<td>30</td>
<td>30</td>
<td>M-M</td>
<td>05-09-16</td>
<td>JKS</td>
</tr>
<tr>
<td>05-16-16</td>
<td>08:07</td>
<td>05-16-16</td>
<td>08:07</td>
<td>8</td>
<td>8</td>
<td>M-M</td>
<td>05-16-16</td>
<td>KN</td>
</tr>
<tr>
<td>05-23-16</td>
<td>06:16</td>
<td>05-23-16</td>
<td>06:16</td>
<td>8</td>
<td>8</td>
<td>M-M</td>
<td>05-23-16</td>
<td>KN</td>
</tr>
<tr>
<td>05-25-16</td>
<td>11:34</td>
<td>05-25-16</td>
<td>11:34</td>
<td>8</td>
<td>8</td>
<td>M-M</td>
<td>05-25-16</td>
<td>M-A</td>
</tr>
<tr>
<td>06-12-16</td>
<td>15:32</td>
<td>06-12-16</td>
<td>15:32</td>
<td>25</td>
<td>25</td>
<td>M-M</td>
<td>06-12-16</td>
<td>JKS</td>
</tr>
<tr>
<td>06-20-16</td>
<td>11:26</td>
<td>06-20-16</td>
<td>11:26</td>
<td>31</td>
<td>31</td>
<td>M-M</td>
<td>06-20-16</td>
<td>JKS</td>
</tr>
<tr>
<td>06-24-16</td>
<td>11:35</td>
<td>06-24-16</td>
<td>11:35</td>
<td>32</td>
<td>32</td>
<td>M-M</td>
<td>06-24-16</td>
<td>JKS</td>
</tr>
<tr>
<td>07-01-16</td>
<td>16:23</td>
<td>07-01-16</td>
<td>16:23</td>
<td>32</td>
<td>32</td>
<td>M-M</td>
<td>07-01-16</td>
<td>JKS</td>
</tr>
</tbody>
</table>

### Table II - Monthly Leak Test

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Initial SP Value</th>
<th>Final SP Value</th>
<th>Pass/Fail</th>
<th>Initials</th>
<th>Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>04-29-16</td>
<td>11:09</td>
<td>99</td>
<td>97</td>
<td>Pass</td>
<td>KN</td>
<td></td>
</tr>
<tr>
<td>05-02-16</td>
<td>11:34</td>
<td>99</td>
<td>99</td>
<td>Pass</td>
<td>KN</td>
<td></td>
</tr>
</tbody>
</table>

### Table III - Monthly Flow Rate Verification

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Monitor Flow (Q Lpm)</th>
<th>Monitor Baro Pressure (mmHg)</th>
<th>Delta Cal Baro Pressure (mmHg)</th>
<th>Monitor Temp (A)</th>
<th>Delta Cal Temp (Ta)</th>
<th>Delta Cal Flow (Qs)</th>
<th>Delta Cal Flow (Qa)</th>
<th>Accuracy</th>
<th>Initials</th>
</tr>
</thead>
<tbody>
<tr>
<td>04-29-16</td>
<td>11:11</td>
<td>16.7</td>
<td>591</td>
<td>591</td>
<td>21.5</td>
<td>21.8</td>
<td>13.1</td>
<td>16.85</td>
<td>-0.89</td>
<td>KN</td>
</tr>
<tr>
<td>05-02-16</td>
<td>11:34</td>
<td>16.7</td>
<td>591</td>
<td>591</td>
<td>22.5</td>
<td>22.9</td>
<td>13.2</td>
<td>16.87</td>
<td>-1.01</td>
<td>KN</td>
</tr>
</tbody>
</table>
APPENDIX E

Independent PM$_{10}$ Sampler Performance Audit Report
AUDIT REPORT
FOR
ALTON COAL DEVELOPMENT, LLC
COAL HOLLOW MINE
ALTON, UTAH
SECOND QUARTER 2016

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

Prepared by
Air Resource
SPECIALISTS
1901 Sharp Point Dr.
Suite E
Fort Collins, CO 80525
970-484-7941

Site Audited: April 20, 2016
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2.1 Particulate Samplers | 2-1
3.0 AUDIT RESULTS | 3-1
APPENDIX A Audit Data Forms | A-1
APPENDIX B Audit Standards Certifications | B-1

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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 April 20, 2016. The monitoring sites are located at the Coal Hollow Mine near Alton, Utah.

Table 1-1

Site Location Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Primary CHM</th>
<th>Background</th>
<th>Primary NPL</th>
<th>Meteorological</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude</td>
<td>37° 24' 5.0&quot; N</td>
<td>37° 24' 20.9&quot; N</td>
<td>37° 24' 43&quot; N</td>
<td>37° 23' 53.2&quot; N</td>
</tr>
<tr>
<td>Longitude</td>
<td>112° 27' 21.0&quot; W</td>
<td>112° 26' 1.1&quot; W</td>
<td>112° 27' 30.6&quot; W</td>
<td>112° 26' 43.1&quot; W</td>
</tr>
<tr>
<td>UTM</td>
<td>12S 371147 4140396</td>
<td>12S 373119 4140856</td>
<td>12S 370928 4141570</td>
<td>12S 372073 4140018</td>
</tr>
<tr>
<td>Elevation</td>
<td>6,890 feet MSL</td>
<td>7,158 feet MSL</td>
<td>6,959 feet MSL</td>
<td>7,007 feet MSL</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Instrument</th>
<th>Within Accuracy Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary CHM</td>
<td>PM$_{10}$</td>
<td>BGI PQ200S</td>
</tr>
<tr>
<td></td>
<td>PM$_{10}$ (collocated)</td>
<td>BGI PQ200S</td>
</tr>
<tr>
<td>Background #1</td>
<td>PM$_{10}$</td>
<td>BGI PQ200S</td>
</tr>
<tr>
<td>Primary NPL</td>
<td>PM$_{10}$</td>
<td>BGI PQ200</td>
</tr>
<tr>
<td></td>
<td>PM$_{10}$ (collocated)</td>
<td>BGI PQ200</td>
</tr>
</tbody>
</table>
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 E
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 PM$_{10}$)

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Audit Method</th>
<th>Acceptance Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRM PM$_{10}$</td>
<td>Leak Check</td>
<td>Manufacturer specs</td>
</tr>
<tr>
<td></td>
<td>Audit flow to actual sampler flow</td>
<td>≤ ± 10%</td>
</tr>
<tr>
<td></td>
<td>Design criteria flow to audit flow</td>
<td>≤ ± 10%</td>
</tr>
<tr>
<td></td>
<td>Audit temperature to sampler temperature</td>
<td>≤ ± 2°C</td>
</tr>
<tr>
<td></td>
<td>Audit temperature to sampler filter temperature</td>
<td>≤ ± 2°C</td>
</tr>
<tr>
<td></td>
<td>Audit barometric pressure to sampler pressure</td>
<td>≤ ±10 mm Hg</td>
</tr>
</tbody>
</table>

Table 2-1
Particulate Samplers
Audit Acceptance Criteria
Table 2-2
Particulate Samplers
Audit Equipment

<table>
<thead>
<tr>
<th>References</th>
<th>Manufacturer</th>
<th>Model Number</th>
<th>Serial Number</th>
<th>Expiration Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRM Flow</td>
<td>BGI</td>
<td>DeltaCal</td>
<td>1237</td>
<td>1/26/2017</td>
</tr>
</tbody>
</table>
3.0 AUDIT RESULTS

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

Performance Audit Results
There were no performance audit issues or other findings to discuss.
APPENDIX A

AUDIT DATA FORMS
**Air Resource SPECIALISTS**

**FRM AUDIT (PM$_{10}$)**

<table>
<thead>
<tr>
<th>ABBR.</th>
<th>N/A</th>
<th>CLIENT</th>
<th>Alton</th>
<th>AUDITOR</th>
<th>C.Kirk</th>
<th>DATE</th>
<th>4/20/2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>SITE NAME</td>
<td>Coal Hollow</td>
<td>Network type</td>
<td>Alton Coal- Coal Hollow</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>SERIAL NUMBER</th>
<th>EXPIRATION DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM Flow Standard #1</td>
<td>BGI</td>
<td>deltacal</td>
<td>1237</td>
</tr>
<tr>
<td>PM Temperature Standard #1</td>
<td>BGI</td>
<td>deltacal</td>
<td>1237</td>
</tr>
<tr>
<td>PM Barometric Pressure Standard #1</td>
<td>BGI</td>
<td>deltacal</td>
<td>1237</td>
</tr>
</tbody>
</table>

**MANUFACTURER** | BGI |  
**MODEL** | PQ200S |  
**SERIAL NUMBER** | N962A |  

**SETTINGS**

| Total Flow | 16.70 |

**Automated LEAK CHECK**

<table>
<thead>
<tr>
<th>Vacuum Loss Rate</th>
<th>Pass/Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 cm H2O</td>
<td>PASS</td>
</tr>
</tbody>
</table>

**FLOW VERIFICATION**

<table>
<thead>
<tr>
<th>Reference Instrument</th>
<th>Actual Diff</th>
<th>Design Diff</th>
<th>Pass/Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Flow</td>
<td>17.14</td>
<td>16.70</td>
<td>-2.6%</td>
</tr>
</tbody>
</table>

**AUDIT CRITERIA (<=)**

<table>
<thead>
<tr>
<th>Actual Flow % Diff</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Flow % Diff</td>
<td>10%</td>
</tr>
</tbody>
</table>

**AMBIENT TEMPERATURE SENSOR (°C)**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Instrument</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.3</td>
<td>14.9</td>
<td>-0.4</td>
</tr>
</tbody>
</table>

**AUDIT CRITERIA (<=)**

| Temperature Difference (°C) | 2  |

**FILTER TEMPERATURE SENSOR (°C)**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Instrument</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.1</td>
<td>14.7</td>
<td>-0.4</td>
</tr>
</tbody>
</table>

**AUDIT CRITERIA (<=)**

| Temperature Difference (°C) | 2  |

**PRESSURE SENSOR (mmHg)**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Instrument</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>585.5</td>
<td>585.0</td>
<td>-0.5</td>
</tr>
</tbody>
</table>

**AUDIT CRITERIA (<=)**

| Pressure Difference (mmHg) | 10 |

**NOTES:**
### FRM AUDIT (PM₁₀)

<table>
<thead>
<tr>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>SERIAL NUMBER</th>
<th>EXPIRATION DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM Flow Standard #1</td>
<td>BGI deltacal</td>
<td>1237</td>
<td>1/26/2017</td>
</tr>
<tr>
<td>PM Temperature Standard #1</td>
<td>BGI deltacal</td>
<td>1237</td>
<td>1/26/2017</td>
</tr>
<tr>
<td>PM Barometric Pressure Standard #1</td>
<td>BGI deltacal</td>
<td>1237</td>
<td>1/26/2017</td>
</tr>
</tbody>
</table>

**ABBREVIATION:** N/A  **CLIENT:** Alton  **AUDITOR:** C. Kirk  **DATE:** 4/20/2016

**SITE NAME:** Coal Hollow  **Network type:** Alton Coal- Coal Hollow

**MANUFACTURER**  **MODEL**  **SERIAL NUMBER**  **EXPIRATION DATE**

**MANUFACTURER:** BGI  
**MODEL:** PQ200S  
**SERIAL NUMBER:** N963B

**SETTINGS**

<table>
<thead>
<tr>
<th>Total Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.70</td>
</tr>
</tbody>
</table>

**Automated LEAK CHECK**

<table>
<thead>
<tr>
<th>Vacuum Loss Rate</th>
<th>Pass/Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 cm H₂O</td>
<td>PASS</td>
</tr>
</tbody>
</table>

**FLOW VERIFICATION**

<table>
<thead>
<tr>
<th>Reference Total Flow</th>
<th>Instrument Total Flow</th>
<th>Actual Diff</th>
<th>Design Diff</th>
<th>AUDIT CRITERIA (&lt;=)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.88</td>
<td>16.70</td>
<td>-1.1%</td>
<td>1.1%</td>
<td>Actual Flow % Diff</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Design Flow % Diff</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10%</td>
</tr>
</tbody>
</table>

**AMBIENT TEMPERATURE SENSOR (°C)**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Instrument</th>
<th>Difference</th>
<th>AUDIT CRITERIA (&lt;=)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.2</td>
<td>16.1</td>
<td>-0.1</td>
<td>Temperature Difference (°C)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

**FILTER TEMPERATURE SENSOR (°C)**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Instrument</th>
<th>Difference</th>
<th>AUDIT CRITERIA (&lt;=)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.3</td>
<td>15.8</td>
<td>-0.5</td>
<td>Temperature Difference (°C)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

**PRESSURE SENSOR (mmHg)**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Instrument</th>
<th>Difference</th>
<th>AUDIT CRITERIA (&lt;=)</th>
</tr>
</thead>
<tbody>
<tr>
<td>591.0</td>
<td>591.0</td>
<td>0.0</td>
<td>Pressure Difference (mmHg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>

**NOTES:**
<table>
<thead>
<tr>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>SERIAL NUMBER</th>
<th>EXPIRATION DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BGI</td>
<td>deltacal</td>
<td>1237</td>
<td>1/26/2017</td>
</tr>
<tr>
<td>BGI</td>
<td>deltacal</td>
<td>1237</td>
<td>1/26/2017</td>
</tr>
<tr>
<td>BGI</td>
<td>deltacal</td>
<td>1237</td>
<td>1/26/2017</td>
</tr>
</tbody>
</table>

### PM Flow Standard #1
- **Manufacturer**: BGI
- **Model**: deltacal
- **Serial Number**: 1237
- **Expiration Date**: 1/26/2017

### PM Temperature Standard #1
- **Manufacturer**: BGI
- **Model**: deltacal
- **Serial Number**: 1237
- **Expiration Date**: 1/26/2017

### PM Barometric Pressure Standard #1
- **Manufacturer**: BGI
- **Model**: deltacal
- **Serial Number**: 1237
- **Expiration Date**: 1/26/2017

**Date and Time correct?**
- Yes [ ]
- No [x]

**If no, time off by:**
- -2 min

### Automated LEAK CHECK
- **Vacuum Loss Rate**: 2 cm H₂O
- **Pass/Fail**: PASS

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

### AMBIENT TEMPERATURE SENSOR (°C)
- **Reference**: 16.7
- **Instrument**: 16.8
- **Difference**: 0.1
- **Temperature Difference (°C)**: 2

### FILTER TEMPERATURE SENSOR (°C)
- **Reference**: 16.1
- **Instrument**: 16.5
- **Difference**: 0.4
- **Temperature Difference (°C)**: 2

### PRESSURE SENSOR (mmHg)
- **Reference**: 591.0
- **Instrument**: 593.0
- **Difference**: 2.0
- **Pressure Difference (mmHg)**: 10

**Notes:**

---

**SITE NAME**: Coal Hollow
**Network type**: Alton Coal- Coal Hollow

**ABBR.**: N/A
**CLIENT**: Alton
**AUDITOR**: C.Kirk
**DATE**: 4/20/2016
### PM Audit (PM$_{10}$)

<table>
<thead>
<tr>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>SERIAL NUMBER</th>
<th>EXPIRATION DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM Flow Standard #1</td>
<td>BGI</td>
<td>deltalcal</td>
<td>1237</td>
</tr>
<tr>
<td>PM Temperature Standard #1</td>
<td>BGI</td>
<td>deltalcal</td>
<td>1237</td>
</tr>
<tr>
<td>PM Barometric Pressure Standard #1</td>
<td>BGI</td>
<td>deltalcal</td>
<td>1237</td>
</tr>
</tbody>
</table>

**DATE:** 4/20/2016

**NOTES:**

**MANUFACTURER:** BGI

**MODEL:** PQ200

**SERIAL NUMBER:** 2366D

**Date and Time correct?**

Yes

If no, time off by:

-2 min

**Total Flow:** 16.70

**Automated LEAK CHECK**

<table>
<thead>
<tr>
<th>Vacuum Loss Rate</th>
<th>Pass/Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 cm H2O</td>
<td>PASS</td>
</tr>
</tbody>
</table>

**FLOW VERIFICATION**

<table>
<thead>
<tr>
<th>Reference Instrument</th>
<th>Actual Diff</th>
<th>Design Diff</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Flow</td>
<td>16.82</td>
<td>16.70</td>
</tr>
</tbody>
</table>

**AUDIT CRITERIA (<=)**

| Actual Flow % Diff | 10% |
| Design Flow % Diff | 10% |

**AMBIENT TEMPERATURE SENSOR (°C)**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Instrument</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.0</td>
<td>17.1</td>
<td>0.1</td>
</tr>
</tbody>
</table>

**AUDIT CRITERIA (<=)**

| Temperature Difference (°C) | 2 |

**FILTER TEMPERATURE SENSOR (°C)**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Instrument</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.2</td>
<td>18.4</td>
<td>0.2</td>
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</table>

**AUDIT CRITERIA (<=)**

| Temperature Difference (°C) | 2 |

**PRESSURE SENSOR (mmHg)**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Instrument</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>590.5</td>
<td>590.0</td>
<td>-0.5</td>
</tr>
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</table>

**AUDIT CRITERIA (<=)**

| Pressure Difference (mmHg) | 10 |
**SITE NAME** Coal Hollow  
**Network type** Alton Coal- Coal Hollow  

<table>
<thead>
<tr>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>SERIAL NUMBER</th>
<th>EXPIRATION DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM Flow Standard #1</td>
<td>BGI</td>
<td>deltacal</td>
<td>1237</td>
</tr>
<tr>
<td>PM Temperature Standard #1</td>
<td>BGI</td>
<td>deltacal</td>
<td>1237</td>
</tr>
<tr>
<td>PM Barometric Pressure Standard #1</td>
<td>BGI</td>
<td>deltacal</td>
<td>1237</td>
</tr>
</tbody>
</table>

**MANUFACTURER** | BGI  
**MODEL** | PQ200  
**SERIAL NUMBER** | 2398E  

**SETTINGS**  
Total Flow 16.70

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

**FLOW VERIFICATION**  
<table>
<thead>
<tr>
<th>Reference Instrument</th>
<th>Actual Diff</th>
<th>Design Diff</th>
<th>PASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Flow 16.87</td>
<td>16.70</td>
<td>-1.0% 1.0%</td>
<td>PASS</td>
</tr>
</tbody>
</table>

**AMBIENT TEMPERATURE SENSOR (°C)**  
<table>
<thead>
<tr>
<th>Reference</th>
<th>Instrument</th>
<th>Difference</th>
<th>PASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.0</td>
<td>17.8</td>
<td>-0.2</td>
<td>PASS</td>
</tr>
</tbody>
</table>

**FILTER TEMPERATURE SENSOR (°C)**  
<table>
<thead>
<tr>
<th>Reference</th>
<th>Instrument</th>
<th>Difference</th>
<th>PASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.0</td>
<td>18.1</td>
<td>0.1</td>
<td>PASS</td>
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</tbody>
</table>

**PRESSURE SENSOR (mmHg)**  
<table>
<thead>
<tr>
<th>Reference</th>
<th>Instrument</th>
<th>Difference</th>
<th>PASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>590.5</td>
<td>591.0</td>
<td>0.5</td>
<td>PASS</td>
</tr>
</tbody>
</table>

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

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

**NOTES:**
**SITE INFORMATION**

<table>
<thead>
<tr>
<th>ABBR.</th>
<th>N/A</th>
<th>CLIENT</th>
<th>Alton</th>
<th>AUDITOR</th>
<th>C.Kirk</th>
<th>DATE</th>
<th>4/20/2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>SITE NAME</td>
<td>Coal Hollow</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>NETWORK TYPE</td>
<td>Alton Coal- Coal Hollow</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**LATITUDE**

- North
- West

**LONGITUDE**

- Deg
- Min
- Sec
- Decimal

**ELEVATION**

- Meters
- Feet

- Feet
- Meters

Please verify site standards used by the site operator

<table>
<thead>
<tr>
<th>SITE STANDARDS</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>SERIAL #</th>
<th>Calibration Expiration Date</th>
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</thead>
<tbody>
<tr>
<td>PM Flow Reference</td>
<td></td>
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</table>

**NOTES:**

<p>| | |</p>
<table>
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<th></th>
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### CALIBRATION AND VERIFICATION STANDARDS

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<thead>
<tr>
<th>ABBR.</th>
<th>N/A</th>
<th>CLIENT</th>
<th>Alton</th>
<th>AUDITOR</th>
<th>C. Kirk</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td>4/20/2016</td>
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</table>

**SITE NAME** Coal Hollow  
**Network type** Alton Coal- Coal Hollow

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

**PM Flow Standard #1**  
MANUFACTURER: BGI  
MODEL: deltacal  
SERIAL #: 1237  
Calibration Expiration Date: 1/26/2017

**PM Flow Standard #2**  
MANUFACTURER: BGI  
MODEL: deltacal  
SERIAL #: 1237  
Calibration Expiration Date: 1/26/2017

**PM Flow Standard #3**  
MANUFACTURER: BGI  
MODEL: deltacal  
SERIAL #: 1237  
Calibration Expiration Date: 1/26/2017

**PM Flow Standard #4**  
MANUFACTURER: BGI  
MODEL: deltacal  
SERIAL #: 1237  
Calibration Expiration Date: 1/26/2017

**PM Temperature Standard #1**  
MANUFACTURER: BGI  
MODEL: deltacal  
SERIAL #: 1237  
Calibration Expiration Date: 1/26/2017

**PM Temperature Standard #2**  
MANUFACTURER: BGI  
MODEL: deltacal  
SERIAL #: 1237  
Calibration Expiration Date: 1/26/2017

**PM Temperature Standard #3**  
MANUFACTURER: BGI  
MODEL: deltacal  
SERIAL #: 1237  
Calibration Expiration Date: 1/26/2017

**PM Temperature Standard #4**  
MANUFACTURER: BGI  
MODEL: deltacal  
SERIAL #: 1237  
Calibration Expiration Date: 1/26/2017

**PM Barometric Pressure Standard #1**  
MANUFACTURER: BGI  
MODEL: deltacal  
SERIAL #: 1237  
Calibration Expiration Date: 1/26/2017

**PM Barometric Pressure Standard #2**  
MANUFACTURER: BGI  
MODEL: deltacal  
SERIAL #: 1237  
Calibration Expiration Date: 1/26/2017

**PM Barometric Pressure Standard #3**  
MANUFACTURER: BGI  
MODEL: deltacal  
SERIAL #: 1237  
Calibration Expiration Date: 1/26/2017

**PM Barometric Pressure Standard #4**  
MANUFACTURER: BGI  
MODEL: deltacal  
SERIAL #: 1237  
Calibration Expiration Date: 1/26/2017

**TEOM MTV Standard**  
MANUFACTURER: BGI  
MODEL: deltacal  
SERIAL #: 1237  
Calibration Expiration Date: 1/26/2017

**HiVol Direct Flow Reference**  
MANUFACTURER: BGI  
MODEL: deltacal  
SERIAL #: 1237  
Calibration Expiration Date: 1/26/2017

**Orifice**  
MANUFACTURER: BGI  
MODEL: deltacal  
SERIAL #: 1237  
Calibration Expiration Date: 1/26/2017

**ΔP orifice manometer**  
MANUFACTURER: BGI  
MODEL: deltacal  
SERIAL #: 1237  
Calibration Expiration Date: 1/26/2017
APPENDIX B

AUDIT STANDARDS CERTIFICATIONS
CERTIFICATE OF CALIBRATION - NIST TRACEABILITY

(Refer to instruction manual for further details of calibration)

deltaCal Serial Number: 1237

DATE: 15-Jan-2016

Calibration Operator: P. Pitty

Critical Venturi Flow Meter: Max Uncertainty = 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: Uncertainty=0.071%
Brand: Accu-Safe
Room Temperature: 24.8 °C
Serial Number: 254881
NIST Traceability No. 516837

Barometric Pressure and Absolute Pressure
Vaisala Model PTB330(50-1100) Digital
Accuracy: 0.03371%
S/N DH0850001
NIST Traceable (Princo Primary Standard Model 453 S/N W12537) Certificate No. P-7485

Barometric pressure (set): 746 mm of Hg

Results of Venturi Calibration
Flow Rate (Q) vs. Pressure Drop (ΔP).

<table>
<thead>
<tr>
<th>Q</th>
<th>ΔP</th>
<th>Overall Uncertainty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.88294</td>
<td>0.52106</td>
<td>0.35%</td>
</tr>
<tr>
<td>3.78777</td>
<td>0.54863</td>
<td>0.35%</td>
</tr>
</tbody>
</table>

Date Placed In Service: 1/3/16

(To be filled in by operator upon receipt)

Recommend Recalibration Date: 1/3/17

(12 months from date placed in service)

Revised: September 2015
Cal102-01T2 Rev D
Maximum allowable error at any flow rate is .75%.

<table>
<thead>
<tr>
<th>Reading</th>
<th>CV</th>
<th>Qa</th>
<th>Qa deltaCal</th>
<th>% Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>#2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>145.17</td>
<td>24.75</td>
<td>1.658</td>
<td>1.651</td>
<td>-0.42</td>
</tr>
<tr>
<td>188.07</td>
<td>24.75</td>
<td>2.162</td>
<td>2.155</td>
<td>-0.34</td>
</tr>
<tr>
<td>318.63</td>
<td>24.75</td>
<td>3.697</td>
<td>3.710</td>
<td>0.34</td>
</tr>
<tr>
<td>402.50</td>
<td>24.75</td>
<td>4.684</td>
<td>4.700</td>
<td>0.35</td>
</tr>
<tr>
<td>473.53</td>
<td>24.75</td>
<td>5.519</td>
<td>5.550</td>
<td>0.57</td>
</tr>
<tr>
<td>#1</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>150.00</td>
<td>24.90</td>
<td>6.008</td>
<td>6.000</td>
<td>-0.13</td>
</tr>
<tr>
<td>259.53</td>
<td>24.90</td>
<td>10.507</td>
<td>10.463</td>
<td>-0.42</td>
</tr>
<tr>
<td>337.29</td>
<td>24.90</td>
<td>13.702</td>
<td>13.671</td>
<td>-0.22</td>
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<tr>
<td>398.26</td>
<td>24.90</td>
<td>16.207</td>
<td>16.180</td>
<td>-0.16</td>
</tr>
<tr>
<td>476.34</td>
<td>24.90</td>
<td>19.414</td>
<td>19.454</td>
<td>0.21</td>
</tr>
</tbody>
</table>

Average % = -0.02
To Check a deltaCal
1.5-20.5

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

Serial No. 1237

<table>
<thead>
<tr>
<th>Reading (mm of Hg)</th>
<th>CV Qa</th>
<th>Qa deltaCal</th>
<th>% Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>151.5</td>
<td>4.99</td>
<td>5.01</td>
<td>0.42</td>
</tr>
<tr>
<td>258.5</td>
<td>8.67</td>
<td>8.60</td>
<td>-0.80</td>
</tr>
<tr>
<td>343.1</td>
<td>11.58</td>
<td>11.49</td>
<td>-0.77</td>
</tr>
<tr>
<td>455.5</td>
<td>15.45</td>
<td>15.14</td>
<td>-1.98</td>
</tr>
<tr>
<td>566.3</td>
<td>19.26</td>
<td>18.94</td>
<td>-1.64</td>
</tr>
</tbody>
</table>

Average % -0.95