

Intended for  
**Becton, Dickinson and Company**

Date  
**December 2019**

## **ESTIMATION OF FUGITIVE ETHYLENE OXIDE EMISSIONS**

**GLOBAL DISTRIBUTION CENTER, COVINGTON, GEORGIA**

## **ESTIMATION OF FUGITIVE ETHYLENE OXIDE EMISSIONS GLOBAL DISTRIBUTION CENTER, COVINGTON, GEORGIA**

Project name   **BD: GDC FUGITIVE EMISSION ESTIMATION**  
Project no.     **1690014483**  
Recipient       **Becton, Dickinson and Company**  
Version         **1**  
Date            **December 13, 2019**  
Prepared by    **Russell S. Kemp, PE**

Ramboll  
1600 Parkwood Circle  
Suite 310  
Atlanta, GA 30339  
USA  
  
T +1 770 874 5010  
F +1 770 874 5011  
<https://ramboll.com>

## CONTENTS

<b>1.</b>	<b>APPROACH AND CONCEPT</b>	<b>2</b>
<b>2.</b>	<b>SAMPLING ACTIVITY</b>	<b>4</b>
<b>3.</b>	<b>RESULTS AND CALCULATIONS</b>	<b>6</b>
<b>4.</b>	<b>LIMITATIONS</b>	<b>8</b>

### Tables

1. Sample Results
2. Emission Calculations

### Figures

1. Indoor Sampling Locations
2. Outdoor Sampling Locations

### Appendices

1. Sampling Plan and EPD Approval
2. Fan Test Report
3. Lab Reports
4. Chain of Custody
5. Meteorological Data

## EXECUTIVE SUMMARY

Ramboll US Corporation (Ramboll) conducted measurements and performed calculations to estimate the rate of fugitive ethylene oxide (EO) emissions from the Becton, Dickinson and Company Global Distribution Center (GDC) in Covington, Georgia, in fulfillment of the requirements of Paragraph 10 of the Consent Order entered into by the Georgia Environmental Protection Division (EPD) and Becton, Dickinson and Company (BD) on October 28, 2019.

The work presented in this Report was performed in accordance with the Plan approved by the EPD on November 19, 2019.

Based upon samples collected between November 21 and 22, 2019, and December 4 and 5, 2019, the estimated rate of EO emissions from the BD GDC is 0.65 pounds per hour (lb/hr).

## 1. APPROACH AND CONCEPT

Pursuant to a Consent Order entered into by the Georgia Environmental Protection Division (EPD) and Becton, Dickinson and Company (BD) on October 28, 2019, BD retained Ramboll US Corporation (Ramboll) as a third-party engineering firm to develop estimates of the fugitive ethylene oxide (EO) emissions occurring at any offsite warehouse(s) located in Newton County, Georgia in fulfillment of Paragraph 10 of that Consent Order.

Ramboll prepared a Fugitive Emissions Estimation Approach (Sampling Plan) dated November 15, 2019 which was submitted by BD to EPD for review and approval. EPD communicated its approval of the Sampling Plan to BD by email on November 19, 2019. The only modification to the approach requested by EPD was an encouragement to "also place a Summa Canister outside of the building near the property line to estimate 'background' concentration compared to the 8 indoor sampling canisters to be used." Both the Sampling Plan and EPD approval communication are included as **Appendix 1** to this report.

BD operates one offsite warehouse in Newton County – its Global Distribution Center (GDC) located at 14201 Lochridge Blvd. in Covington, Georgia. The GDC is a warehousing and distribution operation that receives ethylene oxide sterilized medical products from BD's nearby sterilization facilities in Covington and Madison, Georgia, and ships out these products to customers. The GDC's storage and shipping areas are divided by walls into numbered sections.

Sterilized products arrive by truck at the loading docks on the west side of Sections 3 and 5 to be distributed internally at the facility to be held in storage racks in Section 2 through 5 until transferred to Section 1 to be assembled into shipments to customers. Section 4 is temperature-controlled space and the freight doors separating that Section from others are high-speed roll-up type. The freight openings between the other walled sections are open.

Forty-One (41) roof fans are located to exhaust air from these sections and maintain regular air changes of the GDC space. These fans are of standard powered upblast propeller type with clamshell doors that close when the fans are not being run. Fan locations are noted on **Figure 1**. The fans are all nominally sized for 30,000 cubic-feet-per-minute (cfm) of exhaust with the exception of one fan each in Sections 4 West and 4 East that are 15,000 cfm.

Passive indraft louvers are located in the walls on the west side of Sections 2 and 3 such that air is drawn in from the west to be subsequently exhausted by the fans on the east side of those sections. Conversely, passive indraft wall louvers are located in the walls on the east end of Section 5 with air drawn in to move toward the exhaust fans at the west end of Section 5. Air in Section 1 is pulled from the trailer dock doors on the west end toward the exhaust fans on the east end. Air is drawn from the tempering units in Section 4 toward the exhaust fans in the roof in the middle of Section 4 East and toward the west end of Section 4 West. BD has established a minimum number of fans which must be operated in each section of the GDC to provide sufficient ventilation for the employees; however, additional fans can be operated when conditions (e.g., high temperatures) dictate.

The approach for estimating the rate of fugitive emissions from the GDC is based on determination of the concentrations of EO in the sectioned facility areas and applying those

concentrations to the associated exhaust fan volumetric flow rates for each section to compute the mass rate (pounds per hour) of EO from the facility.

## 2. SAMPLING ACTIVITY

In accordance with the EPD-approved Sampling Plan (**Appendix 1**), Ramboll staff conducted sampling of the indoor air spaces of each Section of the GDC on November 21-22, 2019 and December 4-15, 2019.

Samples were collected using Summa Canisters set to pull sample over an approximately 24-hour duration. Indoor canisters were placed between 1:30 and 2:30 p.m. on November 21<sup>st</sup> and collected between 12:30 and 1:30 p.m. on November 22<sup>nd</sup>. Similarly, indoor canisters were placed between 12:50 and 1:55 p.m. on December 4<sup>th</sup> and collected between 11:50 a.m. and 12:55 p.m. on December 5<sup>th</sup>. Canisters were placed at approximately 5 feet above floor level in each Section near the portion of the Section where the exhaust fans are above. In Section 1, stair access was available to higher levels in the storage rack system and those samples were collected from a third-level landing in the racks. Each sample duration exceeded 23 hours.

As encouraged by EPD, outdoor samples were collected at two points outside of the facility concurrent to the indoor sampling activity. **Figure 1** depicts the location of all indoor samples. **Figure 2** depicts the outdoor sampling locations.

As noted above, the facility does not operate all exhaust fans at all times and typically only operates approximately 1/3 of all the fans present. At the time of commencement of the sampling, it was noted which fans are in operation and only this subset of fans (no additions or subtractions) operated for the duration of the sampling period. At the conclusion of the sampling the operational state of the exhaust fans was confirmed to verify that the consistent subset operated for the duration of the sampling. **Figure 1** denotes in red all the fans that were in operation during the sampling events. Fans noted in blue were not in operation and closed. For the December 4-5<sup>th</sup> sampling, some fan operation changes were made during the sampling event. Fan EF-24, most proximate to Sample S1A was shut off at 6:26 a.m. on the morning of December 5<sup>th</sup>. Fan F-5-B in Section 5 (denoted in green on **Figure 1**) was turned on at 6:37 a.m. on the morning of December 5<sup>th</sup>.

Samples were collected from the following locations:

Section 1 – TWO samples collected from locations at the EAST end of Section 1, beneath or near an operating exhaust fan. [Section 1 is the largest section by floor area]

Section 2 – ONE sample collected from a location in the EAST end of Section 2, beneath or near an operating exhaust fan.

Section 3 – ONE sample collected from a location in the EAST end of Section 3, beneath or near an operating exhaust fan.

Section 4 East – ONE sample collected from a location beneath or near an operating exhaust fan.

Section 4 West – ONE sample collected from a location in the WEST end of Section 4 West, beneath or near an operating exhaust fan.

Section 5 – ONE sample collected from a location in the WEST end of Section 5, beneath or near an operating exhaust fan.

ONE additional DUPLICATE sample was collected immediately beside one of the above-listed samples selected randomly on the morning sampling commenced – at Section 4 East for the November sampling and in Section 2 for the December sampling.

TWO samples were collected from outdoor locations during each sampling event, one near the west exterior wall of the facility and one at the fence to the southwest of the facility.

## 3. RESULTS AND CALCULATIONS

The samples collected in the Summa Canisters (a total of 10 per sampling event, including the one duplicate for each sampling event) were analyzed using EPA Method TO-15 with GC/MS in the Selective Ion Monitoring (SIM) acquisition mode to determine the concentration of ethylene oxide. Analysis was performed by Eurofins, a national independent laboratory. Concentration results are reported in units of micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ).

### COMPUTATIONAL STRUCTURE

Mass rate of EO from a given exhaust fan under the conceptual approach outlined above is simply the computation of concentration (mass/volume) times volumetric flow rate (volume/time) yielding mass/time while making the appropriate unit conversions. Example:

$$\mathbf{A} \text{ (ug/m}^3\text{)} * \mathbf{B} \text{ (ft}^3/\text{min)} * (60/35.31) * (1/1,000,000) * (1/454) = \mathbf{C} \text{ lb/hr}$$

The total estimated fugitive mass emission rate from the GDC is simply the sum of the above calculations for each fan.

Actual fan flow rates were measured by TAB Services, Inc. in November and December 2019. TAB Services' report is included as **Appendix 2**.

**Table 1** presents the detailed data for each sample collected including sampling times, durations, starting and ending Summa Canister vacuum pressures and measured EO concentrations in  $\mu\text{g}/\text{m}^3$ .

Indoor sample concentrations ranged between 48  $\mu\text{g}/\text{m}^3$  in Section 1 (December sampling) to 2100  $\mu\text{g}/\text{m}^3$  in Section 3 (November sampling). The complete Eurofins laboratory reports are included as **Appendix 3** and the Ramboll Chain of Custody documents for the samples are included as **Appendix 4**.

Outdoor samples were all below 1  $\mu\text{g}/\text{m}^3$ . Winds for the November sampling period were generally light and from the South or Southwest, such that outdoor sample P1 was upwind of the facility. Winds for the December sampling period were moderate and generally from the West or West-Northwest, such that the outdoor sample P1 was again generally not downwind of the facility exhausts. Hourly meteorological data are included as **Appendix 5**.

At least one sample was collected from each Section (see **Figure 1**). In Sections 1 and 2, more than one fan was in operation. The concentration measured at sample S1A is nearest fans EF-24 and EF-26 and that concentration was, accordingly, assigned to represent the concentration exhausted by both of those fans. One sample (S2) was collected in Section 2, with four operating fans. The S2 concentration was assumed to represent the concentration exhausted by those four fans.

**Table 2** executes the calculations outlined above for combining concentrations and fan flows to compute mass emission rates of EO.

The total facility emission rate of EO for the periods November 21-22, 2019 and December 4<sup>th</sup> and 5th, 2019, averaged 0.65 lb/hr.

## 4. LIMITATIONS

Estimation of emissions from any operation or process based on measurements is always subject to limitations on the extent of the measurements and the temporal (time) coverage. In this case, a limited number of samples was collected within a facility approximately 1200 feet long by 500 feet wide and 32 feet tall. It is assumed that the concentration measured from a single point nearest the exhaust fans in each section represents the concentration emitted by those fans.

Further, this sampling occurred over a two single 24-hour periods in November and December 2019. It is assumed in this methodology that the emissions measured on these days are a reasonable representation of the average emissions of EO from the GDC throughout the year, though this is not known certain. For example, during the times that the November and December samples were collected, the GDC still had many lots of EO-sterilized products which did not have the benefit of the extended aeration which the Consent Order requires. Future measurements of EO from the GDC following the turnover of the inventory in the facility could demonstrate lower fugitive emissions.

**TABLE 1**  
**SAMPLE RESULTS**

TABLE 1

**Sampling Results**

Becton, Dickinson and Company  
 Global Distribution Center, Covington, Georgia

**November 21-22, 2019**

Sample ID	Label	Section	Start Date	Start Time	Stop Date	Stop Time	Duration (hours)	Initial Vacuum (inches Hg)	Final Vacuum (inches Hg)	Concentration EO (ug/m <sup>3</sup> )
GDC-S1A 20191121	<b>S1A</b>	1	11/21/2019	13:34	11/22/2019	12:36	23:02	29.0	7.0	<b>90</b>
GDC-S1B 20191121	<b>S1B</b>	1	11/21/2019	13:39	11/22/2019	12:42	23:03	27.5	8.0	<b>200</b>
GDC-S2 20191121	<b>S2</b>	2	11/21/2019	13:46	11/22/2019	12:47	23:01	29.5	7.0	<b>1300</b>
GDC-S3 20191121	<b>S3</b>	3	11/21/2019	13:53	11/22/2019	12:54	23:01	28.0	7.5	<b>2100</b>
GDC-S4E 20191121	<b>S4E</b>	4 East	11/21/2019	14:11	11/22/2019	13:12	23:01	27.0	7.5	<b>96</b>
GDC-D 20191121	<b>DUP</b>	4 East	11/21/2019	14:11	11/22/2019	13:12	23:01	30.0	9.0	<b>83</b>
GDC-S4W 20191121	<b>S4W</b>	4 West	11/21/2019	14:20	11/22/2019	13:21	23:01	30.0	6.0	<b>59</b>
GDC-S5 20191121	<b>S5</b>	5	11/21/2019	14:27	11/22/2019	13:28	23:01	29.5	8.0	<b>490</b>
GDC-W1 20191121	<b>W1</b>	West Wall	11/21/2019	14:44	11/22/2019	13:49	23:05	28.0	6.5	<b>0.93</b>
GDC-P1 20191121	<b>P1</b>	Perimeter	11/21/2019	14:38	11/22/2019	13:41	23:03	29.5	7.5	<b>0.76</b>

**December 4-5, 2019**

Sample ID	Label	Section	Start Date	Start Time	Stop Date	Stop Time	Duration (hours)	Initial Vacuum (inches Hg)	Final Vacuum (inches Hg)	Concentration EO (ug/m <sup>3</sup> )
GDC-S1A 20191204	<b>S1A</b>	1	12/4/2019	12:50	12/5/2019	11:54	23:04	28.0	7.5	<b>48</b>
GDC-S1B 20191204	<b>S1B</b>	1	12/4/2019	12:58	12/5/2019	12:00	23:02	26.5	6.5	<b>190</b>
GDC-S2 20191204	<b>S2</b>	2	12/4/2019	13:12	12/5/2019	12:13	23:01	29.5	8.5	<b>770</b>
GDC-D 20191204	<b>DUP</b>	2	12/4/2019	13:12	12/5/2019	12:13	23:01	28.0	7.0	<b>800</b>
GDC-S3 20191204	<b>S3</b>	3	12/4/2019	13:23	12/5/2019	12:24	23:01	28.5	7.5	<b>1700</b>
GDC-S4E 20191204	<b>S4E</b>	4 East	12/4/2019	13:34	12/5/2019	12:35	23:01	27.0	8.5	<b>160</b>
GDC-S4W 20191204	<b>S4W</b>	4 West	12/4/2019	13:43	12/5/2019	12:44	23:01	27.0	5.5	<b>120</b>
GDC-S5 20191204	<b>S5</b>	5	12/4/2019	13:53	12/5/2019	12:54	23:01	28.5	7.0	<b>1300</b>
GDC-W1 20191204	<b>W1</b>	West Wall	12/4/2019	14:33	12/5/2019	13:34	23:01	27.5	5.0	<b>0.3</b>
GDC-P1 20191204	<b>P1</b>	Perimeter	12/4/2019	14:23	12/5/2019	13:24	23:01	27.0	4.5	<b>0.3</b>

**TABLE 2**  
**EMISSION CALCULATIONS**

**TABLE 2** Emission Estimation

Becton, Dickinson and Company  
Global Distribution Center, Covington, Georgia

**November 21-22, 2019**

Section	Sample	Concentration EO (ug/m <sup>3</sup> )	Fan ID	Flow (cfm)	mass rate (lb/hr)
1	S1A	90	EF-26	23,309	0.008
1	S1A	90	EF-24	23,816	0.008
1	S1B	200	EF-18	24,404	0.018
2	S2	1300	EF-14	24,350	0.118
2	S2	1300	EF-9	14,418	0.070
2	S2	1300	EF-8	23,549	0.115
2	S2	1300	EF-7	24,270	0.118
3	S3	2100	EF-3	23,977	0.188
4 East	S4E	96	EF-33A	16,601	0.006
4 West	S4W	59	EF-30	16,281	0.004
5	S5	490	F-5-G	26,366	0.048
<b>Flow-weighted Average</b>		<b>777 (ug/m<sup>3</sup>)</b>	<b>Totals</b>	<b>241,341 (cfm)</b>	<b>0.702 (lb/hr)</b>

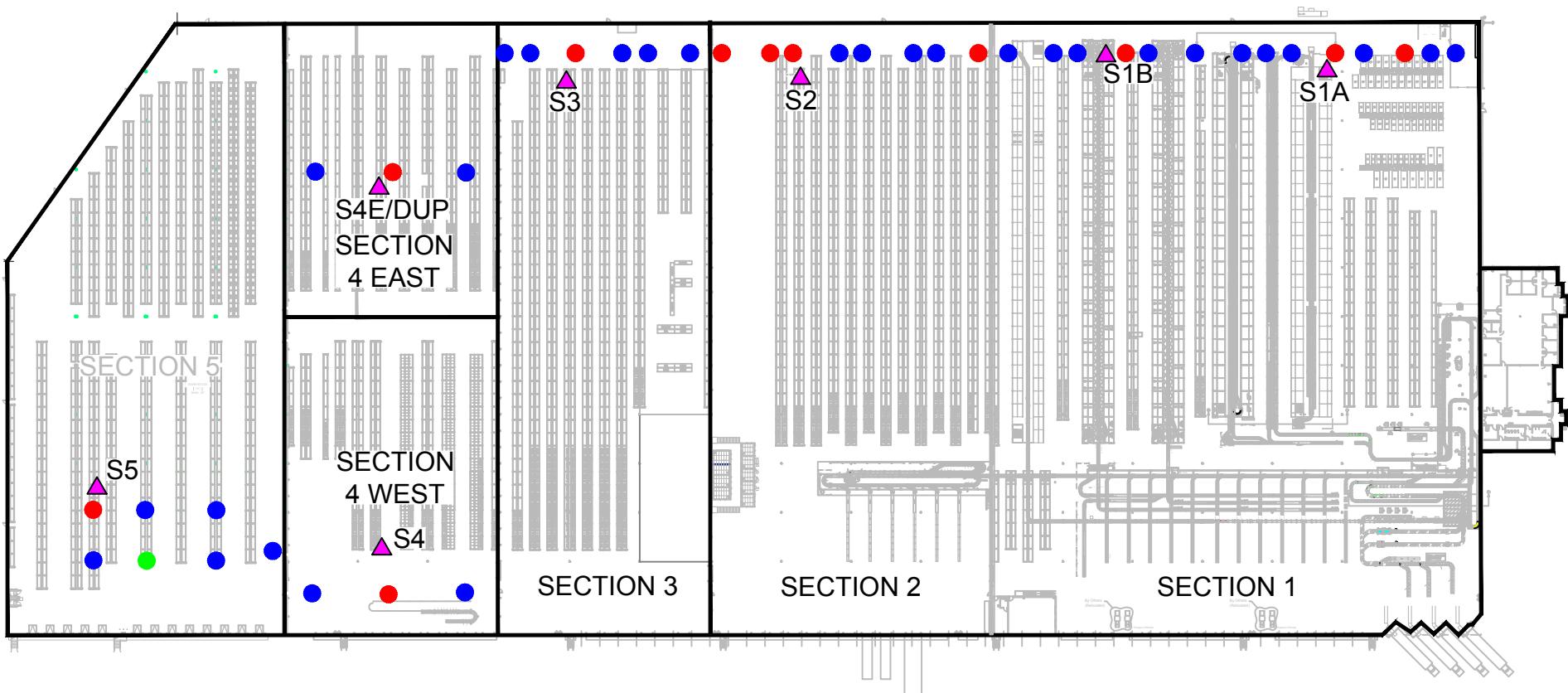
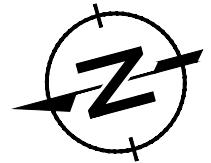
**December 4-5, 2019**

Section	Sample	Concentration EO (ug/m <sup>3</sup> )	Fan ID	Flow (cfm)	mass rate (lb/hr)
1	S1A	48	EF-26	23,309	0.004
1	S1A	48	EF-24	<b>18,172</b>	0.003
1	S1B	190	EF-18	24,404	0.017
2	S2	770	EF-14	24,350	0.070
2	S2	770	EF-9	14,418	0.042
2	S2	770	EF-8	23,549	0.068
2	S2	770	EF-7	24,270	0.070
3	S3	1700	EF-3	23,977	0.153
4 East	S4E	160	EF-33A	16,601	0.010
4 West	S4W	120	EF-30	16,281	0.007
5	S5	1300	F-5-B	<b>6,888</b>	0.034
5	S5	1300	F-5-G	26,366	0.128
<b>Flow-Weighted Average</b>		<b>667 (ug/m<sup>3</sup>)</b>	<b>Totals</b>	<b>242,585 (cfm)</b>	<b>0.606 (lb/hr)</b>

(1) Fan EF-24 operated 1056 minutes out of 1384 minutes sampled by sample S1A  
Flow rate of 23,816 cfm prorated by 1056/1384 = 0.763

(2) Fan F-5-B operated 377 minutes out of 1381 minutes sampled by sample S5  
Flow rate of 25,232 cfm prorated by 377/1381 = 0.273

**FIGURE 1**  
**INDOOR SAMPLING LOCATIONS**



**ROOF FAN LOCATIONS**  
14201 LOCHRIDGE BOULEVARD  
COVINGTON, GEORGIA

LEGEND:

- NON-OPERATING FAN LOCATION (APPROXIMATE)
- OPERATING FAN LOCATION (APPROXIMATE)
- ADDITIONAL OPERATING FAN IN SECOND SAMPLING EVENT

0 130  
SCALE IN FEET

**RAMBOLL**

**FIGURE  
1**

**FIGURE 2**  
**OUTDOOR SAMPLING LOCATIONS**



**APPENDIX 1**  
**SAMPLING PLAN AND EPD APPROVAL**

## FUGITIVE EMISSIONS ESTIMATION APPROACH

Project name **Fugitive Emissions Estimation – BD Global Distribution Center**  
Client **Becton, Dickinson and Company**  
Version **1**  
To **Georgia Environmental Protection Division (EPD)**  
From **Russell S. Kemp, PE**

### TASK

Date November 15, 2019

Estimate the rate of fugitive ethylene oxide (EO) emissions from the Becton, Dickinson and Company (BD) Global Distribution Center (GDC) located at 14201 Lochridge Blvd. in Covington (Newton County), Georgia.

### FACILITY OVERVIEW

The GDC is a warehousing and distribution operation that receives ethylene oxide sterilized medical products from BD's nearby sterilization facilities in Covington and Madison, Georgia, and ships out these products to customers. The overall structure measures approximately 500 ft. by 1,200 ft. with an average roof height of 32 feet. As depicted in the attached diagram, the GDC's storage and shipping areas are divided by walls into numbered sections.

Sterilized products arrive by truck at the loading docks on the west side of Sections 3 and 5 to be distributed internally at the facility to be held in storage racks in Section 2 through 5 until transferred to Section 1 to be assembled into shipments to customers. Section 4 is temperature-controlled space and the freight doors separating that Section from others are high-speed roll-up type. The freight openings between the other walled sections are open.

Forty-One (41) roof fans are located to exhaust air from these section and maintain regular air changes of the GDC space. These fans are of standard powered upblast propeller type with clamshell doors that close when the fans are not being run. Fan locations are noted on the attached diagram. The fans are all nominally sized for 30,000 cubic-feet-per-minute (cfm) of exhaust with the exception of one fan each in Sections 4 West and 4 East that are 15,000 cfm.

Passive indraft louvers are located in the walls on the west side of Sections 2 and 3 such that air is drawn in from the west to be subsequently exhausted by the fans on the east side of those sections. Conversely, passive indraft wall louvers are located in the walls on the east end of Section 5 with air drawn in to move toward

Ramboll  
1600 Parkwood Circle  
Suite 310  
Atlanta, GA 30339  
USA

T +1 770 874 5010  
F +1 770 874 5011  
<https://ramboll.com>

the exhaust fans at the west end of Section 5. Air in Section 1 is pulled from the trailer dock doors on the west end toward the exhaust fans on the end. Air is drawn from the tempering units in Section 4 toward the exhaust fans in the roof in the middle of Section 4 East and toward the west end of Section 4 West.

## **APPROACH and CONCEPT**

Updraft propeller exhaust fans of the type employed at the GDC are not amenable to direct testing via standard stack test methods given the absence of actual stacks of any appreciable length on these units. Levels of Detection using standard stack test methods (i.e., EPA Method 18) would also present a major challenge in detecting the concentrations of EO expected to be encountered from storage of these finished products in storage.

Accordingly, the proposed approach for estimating the rate of fugitive emissions from the GDC is based on determination of the concentrations of EO in the sectioned facility areas and applying those concentrations to the associated exhaust fan volumetric flow rates for each section to compute the mass rate (pounds per hour) of EO from the facility.

Details of the Sampling, Analysis, and Calculational approaches to be followed are presented below.

## **SAMPLING PLAN**

Concentrations of EO in the air in each section of the GDC will be sampled over an approximately 24-hour period over two consecutive days. Samples will be collected using Summa Canisters set to pull sample over a 24-hour duration. Canisters will be placed in the mid-morning of the first day and collected the morning of the second day. Canisters will be placed at approximately 5 feet above floor level in each Section near the portion of the Section where the exhaust fans are above.

The facility does not operate all exhaust fans at all times and typically only operates approximately 1/3 of all the fans present. At the time of commencement of the sampling, it will be noted which fans are in operation and only this subset of fans (no additions or subtractions) will operate for the duration of the sampling period. At the conclusion of the sampling the operational state of the exhaust fans will be confirmed to verify that the consistent subset operated for the duration of the sampling.

Samples will be collected from the following locations:

Section 1 – TWO samples collected from locations at the EAST end of Section 1, beneath or near an operating exhaust fan. [Section 1 is the largest section by floor area]

Section 2 – ONE sample collected from a location in the EAST end of Section 2, beneath or near an operating exhaust fan.

Section 3 – ONE sample collected from a location in the EAST end of Section 3, beneath or near an operating exhaust fan.

Section 4 East – ONE sample collected from a location beneath or near an operating exhaust fan.

Section 4 West – ONE sample collected from a location in the WEST end of Section 4 West, beneath or near an operating exhaust fan.

Section 5 – ONE sample collected from a location in the WEST end of Section 5, beneath or near an operating exhaust fan.

ONE additional DUPLICATE sample will be collected immediately beside one of the above-listed samples selected randomly on the morning sampling commences.

Sample locations will be noted on a facility diagram.

## **SCHEDULE**

In order to achieve the deadline for this effort (December 15, 2019) set forth in Paragraph 10 of the Consent Order entered into by the Georgia Environmental Protection Division (EPD) and BD on October 28, 2019, **it will be necessary to conduct this sampling between Wednesday November 20<sup>th</sup> and Friday November 22<sup>nd</sup>, 2019** with the actual two consecutive days to be determined early the week of November 18<sup>th</sup> in consideration of logistics and availability of personnel.

These dates are expected to be normal and representative operating days for the GDC facility.

## **ANALYTICAL METHODS**

The samples collected in the Summa Canisters (a total of 8, including the one duplicate) will be analyzed using EPA Method TO-15 with GC/MS in the Selective Ion Monitoring (SIM) acquisition mode to determine the concentration of ethylene oxide. Analysis will be performed by Eurofins, a national independent laboratory. Concentration results will be reported in units of micrograms per cubic meter (ug/m<sup>3</sup>).

## **COMPUTATIONAL STRUCTURE**

Mass rate of EO from a given Section under the conceptual approach outlined above is simply the computation of concentration (mass/volume) times volumetric flow rate (volume/time) yielding mass/time while making the appropriate unit conversions. Example:

$$\mathbf{A} \text{ (ug/m}^3\text{)} * \mathbf{B} \text{ (ft}^3/\text{min)} * (60/35.31) * (1/1,000,000) * (1/454) = \mathbf{C} \text{ lb/hr}$$

In the case of Section 1, the two sample results will be averaged and multiplied by the total operating fan flow rate for Section 1 on the day of the sampling.

The total estimated fugitive mass emission rate from the GDC will simply be the sum of the above calculations for each Section.

**REPORT**

A report of results will be prepared for submittal to the EPD by December 15, 2019 in fulfillment of Paragraph 10 of the Consent Order.

The report will consist of:

Brief narrative of the sampling methodology and execution

Notation on a version of the attached facility diagram of:

Fans in operation during the sampling period

Location of each sample collected

Result of sampling at each location (concentration of EO - ug/m<sup>3</sup>)

Tabulation of the concentration results, fan flow rates, and calculated EO fugitive emission rate for each Section, summing to a total estimated fugitive EO emission rate for the GDC facility as a whole (to be reported in pounds per hour - lb/hr)

Appendix containing:

Chain of Custody form for samples, indicating sampling times

Laboratory Report from Eurofins

**From:** [Taylor, Sean](#)  
**To:** [Boone Brothers](#); [Hays, Karen](#); [Damaske, Stephen](#); [Waldron, Sherry](#)  
**Cc:** [Kuoh, Dika](#); [Peggy Eckrote](#); [michelle.quinn@dnr.ga.gov](#); [Ellen Kondracki](#); [Travis Anderton](#); [John LaMontagne](#); [Russell Kemp](#); [Oakes, Les](#); [dhenderson@kslaw.com](#); [Ron Pasdon](#); [haide.villuendas@dnr.ga.gov](#); [Robin Leigh](#) ([rleigh@law.ga.gov](#)); [Williams, Laura](#)  
**Subject:** RE: Consent Order Compliance Email (Par. 10) Estimates of the fugitive ethylene oxide emissions occurring at any offsite warehouse(s)  
**Date:** Tuesday, November 19, 2019 3:27:58 PM

---

Boone,

The Division approves your monitoring plan to estimate fugitive emissions from the BD Global Distribution Center. As suggestion, we would encourage you to also place a Summa Canister outside of the building near the property line to estimate "background" concentration compared to the 8 indoor canisters to be used.

If you have any questions, please feel free to contact me.

Thanks,  
Sean Taylor  
Program Manager  
Stationary Source Compliance Program  
Air Protection Branch  
Office Phone: 404-363-7047  
Mobile Phone: 404-665-7638  
Fax: 678-692-6872



**ENVIRONMENTAL PROTECTION DIVISION**

---

**From:** Hays, Karen <[Karen.Hays@dnr.ga.gov](mailto:Karen.Hays@dnr.ga.gov)>  
**Sent:** Friday, November 15, 2019 6:08 PM  
**To:** Taylor, Sean <[Sean.Taylor@dnr.ga.gov](mailto:Sean.Taylor@dnr.ga.gov)>; Damaske, Stephen <[stephen.damaske@dnr.ga.gov](mailto:stephen.damaske@dnr.ga.gov)>; Waldron, Sherry <[Sherry.Waldron@dnr.ga.gov](mailto:Sherry.Waldron@dnr.ga.gov)>  
**Cc:** Kuoh, Dika <[Dika.Kuoh@dnr.ga.gov](mailto:Dika.Kuoh@dnr.ga.gov)>  
**Subject:** FW: Consent Order Compliance Email (Par. 10) Estimates of the fugitive ethylene oxide emissions occurring at any offsite warehouse(s)

---

**From:** Boone Brothers <[Boone.Brothers@Bd.com](mailto:Boone.Brothers@Bd.com)>  
**Sent:** Friday, November 15, 2019 5:55 PM  
**To:** Hays, Karen <[Karen.Hays@dnr.ga.gov](mailto:Karen.Hays@dnr.ga.gov)>; Kuoh, Dika <[Dika.Kuoh@dnr.ga.gov](mailto:Dika.Kuoh@dnr.ga.gov)>; [peckrote@law.ga.gov](mailto:peckrote@law.ga.gov)  
**Cc:** Michelle Quinn <[Michelle.Quinn@bd.com](mailto:Michelle.Quinn@bd.com)>; Ellen Kondracki <[ellen.kondracki@bd.com](mailto:ellen.kondracki@bd.com)>; Travis

Anderton <[travis\\_anderton@bd.com](mailto:travis_anderton@bd.com)>; John LaMontagne <[John.LaMontagne@bd.com](mailto:John.LaMontagne@bd.com)>; Russell Kemp <[rkemp@ramboll.com](mailto:rkemp@ramboll.com)>; [loakes@kslaw.com](mailto:loakes@kslaw.com); [dhenderson@kslaw.com](mailto:dhenderson@kslaw.com); Ron Pasdon <[Ron.Pasdron@bd.com](mailto:Ron.Pasdron@bd.com)>; Haide Villuendas Sabate <[Haide.Villuendas@bd.com](mailto:Haide.Villuendas@bd.com)>

**Subject:** Consent Order Compliance Email (Par. 10) Estimates of the fugitive ethylene oxide emissions occurring at any offsite warehouse(s)

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Karen,

As Environmental Health and Safety Manager for BD Urology and Critical Care Business Unit, I am submitting this email in compliance with Paragraph 10 of Attachment A to the October 28, 2019 Consent Order.

Paragraph 10 provides: "By December 15, 2019, BD shall provide estimates of the fugitive ethylene oxide emissions occurring at any offsite warehouse(s) located in Newton County using a method defined by a third-party engineering firm and approved by EPD, including documentation of the data and engineering calculations supporting those estimates." The only warehouse used by BD to store and ship sterilized product is the Global Distribution Center. The GDC is located at 14201 Lochridge Blvd. in Covington (Newton County), Georgia.

Schedule:

In order to achieve the deadline for this effort (December 15, 2019) set forth in Paragraph 10 of the Consent Order entered into by the Georgia Environmental Protection Division (EPD) and BD on October 28, 2019, it will be necessary to conduct this sampling between Wednesday November 20th and Friday November 22nd, 2019. We are therefore seeking approval from EPD on the plan by Tuesday, Nov. 19<sup>th</sup>.

Accordingly, please see attached:

1. Proposal from Ramboll with a method to estimate fugitive ethylene oxide emissions from the Global Distribution Center.
2. Building layout indicating fan units locations

Please let me know if you have any questions or if I can help in any other way.

Sincerely,

Boone



**Boone Brothers, CSP, CHMM**  
EHS Manager, UCC Business Unit

[boone.brothers@bd.com](mailto:boone.brothers@bd.com)

8195 Industrial Blvd.  
Covington, GA, 30014  
USA  
**t:** (770)-784-6744  
**c:** (404)-447-9052

[bd.com](http://bd.com)



PLEASE CONSIDER THE ENVIRONMENT  
BEFORE PRINTING THIS EMAIL.

\*\*\*\*\*  
IMPORTANT MESSAGE FOR RECIPIENTS IN THE U.S.A.:

This message may constitute an advertisement of a BD group's products or services or a solicitation of interest in them. If this is such a message and you would like to opt out of receiving future advertisements or solicitations from this BD group, please forward this e-mail to [optoutbygroup@bd.com](mailto:optoutbygroup@bd.com). [BD.v1.0]

\*\*\*\*\*  
This message (which includes any attachments) is intended only for the designated recipient(s). It may contain confidential or proprietary information and may be subject to the attorney-client privilege or other confidentiality protections. If you are not a designated recipient, you may not review, use, copy or distribute this message. If you received this in error, please notify the sender by reply e-mail and delete this message. Thank you.

\*\*\*\*\*  
Corporate Headquarters Mailing Address: BD (Becton, Dickinson and Company) 1 Becton Drive Franklin Lakes, NJ 07417 U.S.A.

**APPENDIX 2  
FAN TEST REPORT**



**TAB SERVICES, INC.**

TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATION AND HEATING SYSTEMS

INDEPENDENT  
**TAB**<sup>TM</sup>  
SERVICE



## SURVEY

TEST AND BALANCE ANALYSIS REPORT  
for

**CR BARD**

**DISTRIBUTION CENTER SURVEY**

**COVINGTON, GEORGIA**

**TAB # 24024**



*TAB Services, Inc.*  
5680 Oakbrook Parkway, Suite 175  
Norcross, Georgia 30093  
404-329-1001  
[www.tabservices.com](http://www.tabservices.com)



**TAB SERVICES, INC.**  
TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

## TEST AND BALANCE ANALYSIS REPORT

Page: 2

**Project: CR BARD**  
**DISTRIBUTION CENTER SURVEY**  
**COVINGTON, GEORGIA**

**Date:** SURVEY 12/9/19

**TAB#:** 24024

**Contractor:** BMD FACILITIES  
MARK JOHNSON

### **ASSOCIATED AIR BALANCE COUNCIL**

**Certification:**

This is to certify that TAB Services, Inc. has balanced the system described herein to their optimum performance capabilities. The testing and balancing has been performed in accordance with the standard requirements and procedures of the Associated Air Balance Council and the results of these tests are herein recorded.

Certification No. 05-05-61 : J. Keith Roberts III, TBE

Signature: J. K. Roberts III





# **TAB SERVICES, INC.**

**TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093**

## INSTRUMENT LIST

**Project: CR BARD  
DISTRIBUTION CENTER SURVEY**

Date: SURVEY 12/9/19  
Page: 3



# TAB SERVICES, INC.

TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

## TEST & BALANCE REPORT NOMENCLATURE

Project: CR BARD  
DISTRIBUTION CENTER SURVEY

TAB#: 24024

Date: SURVEY 12/9/19

Page: 4

Abbreviation	Definition
" Ø	Inches Round (Duct Diameter)
AF	Air Foil
AFMS	Air Flow Measuring Station
BHP	Brake Horsepower
BTU	British Thermal Unit per Hour
CAV	Constant Air Volume Terminal Unit
CD	Ceiling Diffuser
CFM	Cubic Feet per Minute
CHW	Chilled Water
CW	Condenser Water
CVR	Constant Air Volume /w Reheat Terminal Unit
DB	Dry Bulb Temperature
DD	Direct Drive
DDTU	Dual Duct Terminal Unit
DMFH	Direct Measurement Flow Hood
DP, ΔP	Differential Pressure
DS	Ductsox
DT, ΔT	Differential Temperature
DX	Direct Expansion
EA	Exhaust Air
EAT	Entering Air Temperature
ECM	Electronically Commutated Motor
EG	Exhaust Grille
ER	Exhaust Register
ESP	External Static Pressure
EWT	Entering Water Temperature
FLA	Full Load Amperage
FPM	Feet Per Minute
FPP	Fan Powered Parallel Terminal Unit
FPS	Fan Powered Series Terminal Unit
FT	Feet
GPM	Gallons Per Minute
GT	Grille Total
HD	Hood
HEPA	High-Efficiency Particulate Arrestance
HP	Horsepower
HW	Hot Water
HZ	Hertz
IFS	Terminal Unit Inlet Flow Sensor
IN	Inches
KW	Kilowatts

Abbreviation	Definition
LAT	Leaving Air Temperature
LSD	Linear Slot Diffuser
LT	Light Troffer
LWT	Leaving Water Temperature
MBH	1000 British Thermal Units per Hour
NA	Not Available
NG	Not Given
NL	Not Listed
NM	Not Measured
OD	Open Duct or Outside Diameter
OA	Outside Air
PSI	Pounds Per Square Inch
RA	Return Air
RG	Return Grille
RH	Relative Humidity
RPM	Revolutions Per Minute
RR	Return Register
RVA	Rotating Vane Anemometer
SA	Supply Air
SD	Slot Diffuser
SF	Service Factor
SG	Supply Grille
SMBH	Sensible MBH
SN	Snorkel
SP	Static Pressure
SR	Supply Register
TG	Transfer Grille
TMBH	Total MBH
TP	Thermally Protected
TR	Traverse
TSP	Total Static Pressure
VFD	Variable Frequency Drive
VG	Velocity Grid
VAV	Variable Air Volume Terminal Unit
VVR	Variable Air Volume /w Reheat Terminal Unit
W	Watts
WB	Wet Bulb Temperature
W.C.	Water Column



# TAB SERVICES, INC.

TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

## AIR MOVEMENT TEST DATA

Project: CR BARD  
DISTRIBUTION CENTER SURVEY

TAB#: 24024

Date: SURVEY 12/9/19

Page: 5

Unit
Equipment Manufacturer
Model Number
Serial Number

ATU-1
APPLIED AIR
GHLIFP-600S/400
03-89461

ATU-2
APPLIED AIR
GHLIFP-600/300
03-59460

Fan Data
Total Airflow CFM
Return Airflow CFM
Outside Airflow CFM
Static Pressure (in. w.c.)
Inlet Pressure (in. w.c.)
Discharge Pressure (in. w.c.)
Fan RPM

Design	Actual
100000	29272
100000	29272
- - -	- - -
Total	Total
NG	0.70
- - -	-0.39
- - -	0.31
NG	NA <sup>(1)</sup>

Design	Actual
81400	NA <sup>(2)</sup>
81400	NA <sup>(2)</sup>
- - -	- - -
Total	Total
NG	NA <sup>(2)</sup>
- - -	NA <sup>(2)</sup>
- - -	NA <sup>(2)</sup>
NG	NA <sup>(2)</sup>

Motor Data
Motor Manufacturer
Motor HP
Voltage / Phase
Amperage / SF
Motor RPM
Motor Sheave
Fan Sheave
Belts
Center to Center (in.)
Motor Adj. in/out (in.)
Motor Frame
Starter Heater
Filter Condition

Design	Actual
NA <sup>(1)</sup>	
(2) 15	
460/3	468/469/471
55.4/NA <sup>(1)</sup>	15.6/17.0/17.8
NA <sup>(1)</sup>	NA <sup>(1)</sup>
NA <sup>(1)</sup>	
DISCONNECT	
CLEAN	

Design	Actual
NA <sup>(1)</sup>	
(2) 7.5	
460/3	NA <sup>(2)</sup>
33.7/NA <sup>(1)</sup>	NA <sup>(2)</sup>
NA <sup>(1)</sup>	NA <sup>(2)</sup>
NA <sup>(1)</sup>	
DISCONNECT	
CLEAN	

### Remarks-

<sup>(1)</sup> No safe access to obtain data due to unit configuration.

<sup>(2)</sup> Unit not operating at the time of the survey.



# TAB SERVICES, INC.

TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

## AIR MOVEMENT TEST DATA

Project: CR BARD  
DISTRIBUTION CENTER SURVEY

TAB#: 24024

Date: SURVEY 12/9/19

Page: 6

<b>Unit</b>	ATU-4A		ATU-4B	
<b>Equipment Manufacturer</b>	APPLIED AIR		APPLIED AIR	
<b>Model Number</b>	GHLIFA-250/175		GHLIFA-250/175	
<b>Serial Number</b>	2008-0009090001		2008-0009090002	
<b>Fan Data</b>				
<b>Total Airflow CFM</b>	Design	Actual	Design	Actual
	23500	30677	23500	29781
<b>Return Airflow CFM</b>	23500	30677	23500	29781
<b>Outside Airflow CFM</b>	- - -	- - -	- - -	- - -
<b>Static Pressure (in. w.c.)</b>	Total	Total	Total	Total
<b>Inlet Pressure (in. w.c.)</b>	NG	0.44	NG	0.35
<b>Discharge Pressure (in. w.c.)</b>	- - -	-0.17	- - -	-0.15
<b>Fan RPM</b>	- - -	0.27	- - -	0.20
	NG	NA <sup>(1)</sup>	NG	NA <sup>(1)</sup>
<b>Motor Data</b>				
<b>Motor Manufacturer</b>	Design	Actual	Design	Actual
	NA <sup>(1)</sup>		NA <sup>(1)</sup>	
<b>Motor HP</b>	20		20	
<b>Voltage / Phase</b>	460/3	472/471/474	460/3	470/472/469
<b>Amperage / SF</b>	NA <sup>(1)</sup>	17.0/17.8/18.1	NA <sup>(1)</sup>	19.8/21.6/21.7
<b>Motor RPM</b>	NA <sup>(1)</sup>	NA <sup>(1)</sup>	NA <sup>(1)</sup>	NA <sup>(1)</sup>
<b>Motor Sheave</b>	NA <sup>(1)</sup>		NA <sup>(1)</sup>	
<b>Fan Sheave</b>	NA <sup>(1)</sup>		NA <sup>(1)</sup>	
<b>Belts</b>	NA <sup>(1)</sup>		NA <sup>(1)</sup>	
<b>Center to Center (in.)</b>	NA <sup>(1)</sup>		NA <sup>(1)</sup>	
<b>Motor Adj. in/out (in.)</b>	NA <sup>(1)</sup>		NA <sup>(1)</sup>	
<b>Motor Frame</b>	NA <sup>(1)</sup>		NA <sup>(1)</sup>	
<b>Starter Heater</b>	DISCONNECT		DISCONNECT	
<b>Filter Condition</b>	CLEAN		CLEAN	

### Remarks-

<sup>(1)</sup> No safe access to obtain data due to unit configuration.



# TAB SERVICES, INC.

TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

## AIR MOVEMENT TEST DATA

Project: CR BARD  
DISTRIBUTION CENTER SURVEY

TAB#: 24024

Date: SURVEY 12/9/19  
Page: 7

Unit	ATU-5		ATU-6A	
Equipment Manufacturer	APPLIED AIR		APPLIED AIR	
Model Number	GHLIFA-250/175		GMIFA-250/175	
Serial Number	2008-0009090003		2008-0009090004	
Fan Data	Design	Actual	Design	Actual
Total Airflow CFM	30000	21645	21300	25575
Return Airflow CFM	30000	21645	21300	25575
Outside Airflow CFM	- - -	- - -	- - -	- - -
Static Pressure (in. w.c.)	Total	Total	Total	Total
Inlet Pressure (in. w.c.)	NG	0.17	NG	0.52
Discharge Pressure (in. w.c.)	- - -	-0.07	- - -	-0.35
Fan RPM	- - -	0.10	- - -	0.17
	NG	NA <sup>(1)</sup>	NG	810
Motor Data	Design	Actual	Design	Actual
Motor Manufacturer	NA <sup>(1)</sup>		BALDOR	
Motor HP	20		15	
Voltage / Phase	460/3	470/470/472	460/3	470/471/468
Amperage / SF	NA <sup>(1)</sup>	NA <sup>(1)</sup>	19.0/1.15	14.3/14.3/15.1
Motor RPM	NA <sup>(1)</sup>	NA <sup>(1)</sup>	1760	1767
Motor Sheave	NA <sup>(1)</sup>		2VP71 x 1 5/8"	
Fan Sheave	NA <sup>(1)</sup>		12 3/4" OD x B 2"	
Belts	NA <sup>(1)</sup>		(2) BX78	
Center to Center (in.)	NA <sup>(1)</sup>		25 3/4"	
Motor Adj. in/out (in.)	NA <sup>(1)</sup>		-2" / +3"	
Motor Frame	NA <sup>(1)</sup>		254T	
Starter Heater	DISCONNECT		DISCONNECT	
Filter Condition	CLEAN		CLEAN	

### Remarks-

<sup>(1)</sup> No safe access to obtain data due to unit configuration.



# TAB SERVICES, INC.

TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

## AIR MOVEMENT TEST DATA

Project: CR BARD  
DISTRIBUTION CENTER SURVEY

TAB#: 24024

Date: SURVEY 12/9/19  
Page: 8

Unit	ATU-6B		ATU-7	
Equipment Manufacturer	APPLIED AIR		APPLIED AIR	
Model Number	GMIFA-250/175		GMIFA-300/250	
Serial Number	2008/0009090005		2008/0009090006	
Fan Data	Design	Actual	Design	Actual
Total Airflow CFM	21300	24391	33750	37239
Return Airflow CFM	21300	24391	NG	33426
Outside Airflow CFM	- - -	- - -	NG	3813
Static Pressure (in. w.c.)	Total	Total	Total	Total
Inlet Pressure (in. w.c.)	NG	0.81	NG	0.45
Discharge Pressure (in. w.c.)	- - -	-0.13	- - -	-0.28
Fan RPM	- - -	0.68	- - -	0.17
	NG	862	NG	780
Motor Data	Design	Actual	Design	Actual
Motor Manufacturer	WEG		WEG	
Motor HP	15		30	
Voltage / Phase	460/3	471/472/469	460/3	471/470/473
Amperage / SF	19.0/1.15	11.9/13.8/14.6	35.6/NL	27.5/28.0/28.1
Motor RPM	1760	1756	1770	1760
Motor Sheave	2VP71 x 1 5/8"		8 1/4" OD x B 2 7/8"	
Fan Sheave	12 3/4" OD x B 2"		18 3/4" OD x 2 15/16"	
Belts	(2) BX78		BX99	
Center to Center (in.)	25 3/4"		29 1/4"	
Motor Adj. in/out (in.)	-2" / +3"		-2" / +3"	
Motor Frame	254T		NOT LEGIBLE	
Starter Heater	DISCONNECT		DISCONNECT	
Filter Condition	CLEAN		CLEAN	

Remarks-



# TAB SERVICES, INC.

TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

## AIR MOVEMENT TEST DATA

Project: CR BARD  
DISTRIBUTION CENTER SURVEY

TAB#: 24024

Date: SURVEY 12/9/19

Page: 9

Unit
Equipment Manufacturer
Model Number
Serial Number

RTU-1	
TRANE	
YHD300G4RVB3KUN	
192710107D	

RTU-2	
TRANE	
YHD300G4RVB3KUN	
192710104D	

Fan Data
Total Airflow CFM
Return Airflow CFM
Outside Airflow CFM
Static Pressure (in. w.c.)
Inlet Pressure (in. w.c.)
Discharge Pressure (in. w.c.)
Fan RPM

Design	Actual		
10000	4575		
6250	2178		
3750	2397		
External	Total	External	Total
0.75	NG	0.35	0.39
- - -	- - -	-0.24	-0.28
- - -	- - -	0.11	0.11
NG	459		

Design	Actual		
10000	9477		
6250	4508		
3750	4969		
External	Total	External	Total
0.75	NG	0.82	1.05
- - -	- - -	-0.51	-0.74
- - -	- - -	0.31	0.31
NG	712		

Motor Data
Motor Manufacturer
Motor HP
Voltage / Phase
Amperage / SF
Motor RPM
Motor Sheave
Fan Sheave
Belts
Center to Center (in.)
Motor Adj. in/out (in.)
Motor Frame
Starter Heater
Filter Condition

Design	Actual
MARATHON	
460/3	478/480/482
11.0/1.15	1.2/1.3/1.6
3450	2178
1VP44 x 1 1/8"	
BK185 x 1 1/4"	
BX81	
21 1/4"	
BELT TENSIONER	
184T	
DISCONNECT	
CLEAN	

Design	Actual
MARATHON	
460/3	478/480/481
11.0/1.15	6.4/6.5/7.0
3450	3304
1VP44 x 1 1/8"	
BK185 x 1 1/4"	
BX81	
21 1/4"	
BELT TENSIONER	
184T	
DISCONNECT	
CLEAN	

Remarks-



# TAB SERVICES, INC.

TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

## AIR MOVEMENT TEST DATA

Project: CR BARD  
DISTRIBUTION CENTER SURVEY

TAB#: 24024

Date: SURVEY 12/9/19  
Page: 10

Unit
Equipment Manufacturer
Model Number
Serial Number

RTU-3	
TRANE	
YHD300G4RVB3KUN	
192710105D	

RTU-4	
TRANE	
YHD300G4RVB3KUN	
192710108D	

Fan Data
Total Airflow CFM
Return Airflow CFM
Outside Airflow CFM
Static Pressure (in. w.c.)
Inlet Pressure (in. w.c.)
Discharge Pressure (in. w.c.)
Fan RPM

Design	Actual		
10000	4663		
6250	2197		
3750	2466		
External	Total	External	Total
0.75	NG	0.57	0.60
- - -	- - -	-0.40	-0.43
- - -	- - -	0.17	0.17
NG	472		

Design	Actual		
10000	8567		
6250	4146		
3750	4421		
External	Total	External	Total
0.75	NG	0.76	0.92
- - -	- - -	-0.49	-0.65
- - -	- - -	0.27	0.27
NG	617		

Motor Data
Motor Manufacturer
Motor HP
Voltage / Phase
Amperage / SF
Motor RPM
Motor Sheave
Fan Sheave
Belts
Center to Center (in.)
Motor Adj. in/out (in.)
Motor Frame
Starter Heater
Filter Condition

Design	Actual
MARATHON	
460/3	478/480/482
11.0/1.15	1.3/1.3/1.6
3450	2232
1VP44 x 1 1/8"	
BK185 x 1 1/4"	
BX81	
21 1/4"	
BELT TENSIONER	
184T	
DISCONNECT	
CLEAN	

Design	Actual
MARATHON	
460/3	476/481/480
11.0/1.15	6.0/5.9/6.1
3450	2920
1VP44 x 1 1/8"	
BK185 x 1 1/4"	
BX81	
21 1/4"	
BELT TENSIONER	
184T	
DISCONNECT	
CLEAN	

Remarks-



# TAB SERVICES, INC.

TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

## AIR MOVEMENT TEST DATA

Project: CR BARD  
DISTRIBUTION CENTER SURVEY

TAB#: 24024

Date: SURVEY 12/9/19  
Page: 11

Unit	RTU-5		
Equipment Manufacturer	TRANE		
Model Number	YHD300G4RVB3KUN		
Serial Number	192710106D		
Fan Data			
Total Airflow CFM	Design	Actual	
	10000	8054	
Return Airflow CFM	6250	3823	
Outside Airflow CFM	3750	4231	
Static Pressure (in. w.c.)	External	Total	External
0.75	NG	0.77	1.04
Inlet Pressure (in. w.c.)	- - -	- - -	-0.53 -0.80
Discharge Pressure (in. w.c.)	- - -	- - -	0.24 0.24
Fan RPM	NG	594	
Motor Data			
Motor Manufacturer	Design Actual		
Motor HP	MARATHON		
Voltage / Phase	7 1/2		
Amperage / SF	460/3	477/478/480	
Motor RPM	11.0/1.15	5.7/6.3/6.0	
Motor Sheave	3450	2831	
Fan Sheave	1VP44 x 1 1/8"		
Belts	BK185 x 1 1/4"		
Center to Center (in.)	BX81		
Motor Adj. in/out (in.)	21 1/4"		
Motor Frame	BELT TENSIONER		
Starter Heater	184T		
Filter Condition	DISCONNECT		
	CLEAN		

Remarks-



# **TAB SERVICES, INC.**

**TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093**

# **TRAVERSE / VELGRID TEST DATA**

**Project: CR BARD  
DISTRIBUTION CENTER SURVEY**

Date: SURVEY 12/9/19  
Page: 12

**Remarks-**



# **TAB SERVICES, INC.**

**TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093**

# **TRAVERSE / VELGRID TEST DATA**

**Project: CR BARD  
DISTRIBUTION CENTER SURVEY**

Date: SURVEY 12/9/19  
Page: 13

**Remarks-**



# TAB SERVICES, INC.

TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

## FAN TEST DATA

Project: CR BARD  
DISTRIBUTION CENTER SURVEY  
TAB#: 24024

Date: SURVEY 12/9/19  
Page: 14

Unit	EF-1	EF-2	EF-3	EF-4	EF-5
Manufacturer	COOLAIR	COOLAIR	COOLAIR	COOLAIR	COOLAIR
Model Number	JBC54PE8363	JBC54PE8363	JBC54PE8363	JBC54PE8363	JBC54PE8363
Serial Number	100603M127870	100603M127870	100603M127870	100603M127870	100603M127870
Design CFM	35856	35856	35856	35856	35856
Actual CFM	25445	24244	23977	24884	25125
Design Static Pressure (in. w.c.)	0.13	0.13	0.13	0.13	0.13
Actual Static Pressure (in. w.c.)	NA	NA	NA	NA	NA
Motor Manufacturer	BALDOR	BALDOR	BALDOR	BALDOR	BALDOR
Motor HP	3	3	3	3	3
Design Voltage / Phase	460/3	460/3	460/3	460/3	460/3
Actual Voltage	469/470/471	468/471/471	481/483/485	473/475/470	470/471/473
Design Amperage / Service Factor	4.1/1.15	4.1/1.15	4.1/1.15	4.1/1.15	4.1/1.15
Actual Amperage	3.3/3.6/3.0	3.3/3.5/3.0	3.1/3.4/3.4	3.1/3.4/3.0	3.3/3.5/3.0
Design Fan RPM	NG	NG	NG	NG	NG
Actual Fan RPM	641	624	616	640	642
Design Motor RPM	1750	1750	1750	1750	1750
Actual Motor RPM	1763	1766	1750	1769	1761
Motor Sheave	5" OD x 1 1/2"				
Fan Sheave	12" OD x B 1 5/8"				
Belts	BX50	BX50	BX50	BX50	BX50
Center to Center (in.)	12"	12"	12"	12"	12"
Motor Adjustments in/out (in.)	-1" / +3"	-1" / +3"	-1" / +3"	-1" / +3"	-1" / +3"
Motor Frame	182T	182T	182T	182T	182T
Starter Heater	DISCONNECT	DISCONNECT	DISCONNECT	DISCONNECT	DISCONNECT

Remarks-



# TAB SERVICES, INC.

TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

## FAN TEST DATA

Project: CR BARD  
DISTRIBUTION CENTER SURVEY  
TAB#: 24024

Date: SURVEY 12/9/19  
Page: 15

Unit	EF-6	EF-7	EF-8	EF-9	EF-10
Manufacturer	COOLAIR	COOLAIR	COOLAIR	COOLAIR	COOLAIR
Model Number	JBC54PE8363	JBC54PE8363	JBC54PE8363	JBC54PE8363	JBC54PE8363
Serial Number	100603M127870	100603M127870	100603M127870	100603M127870	100603M127870
Design CFM	35856	35856	35856	35856	35856
Actual CFM	(1)	24270	23549	14418 <sup>(2)</sup>	24671
Design Static Pressure (in. w.c.)	0.13	0.13	0.13	0.13	0.13
Actual Static Pressure (in. w.c.)	(1)	NA	NA	NA	NA
Motor Manufacturer	BALDOR	BALDOR	BALDOR	BALDOR	BALDOR
Motor HP	3	3	3	3	3
Design Voltage / Phase	460/3	460/3	460/3	460/3	460/3
Actual Voltage	(1)	471/467/470	468/471/469	470/468/470	468/469/471
Design Amperage / Service Factor	4.1/1.15	4.1/1.15	4.1/1.15	4.1/1.15	4.1/1.15
Actual Amperage	(1)	3.2/3.5/3.0	3.1/3.0/3.4	2.8/2.8/3.1	3.3/3.2/3.3
Design Fan RPM	NG	NG	NG	NG	NG
Actual Fan RPM	(1)	626	617	621	630
Design Motor RPM	1750	1750	1750	1750	1750
Actual Motor RPM	(1)	1768	1753	1755	1761
Motor Sheave	5" OD x 1 1/2"	5" OD x 1 1/2"			
Fan Sheave	12" OD x B 1 5/8"	12" OD x B 1 5/8"			
Belts	BX50	BX50	BX50	BX50	BX50
Center to Center (in.)	12"	12"	12"	12"	12"
Motor Adjustments in/out (in.)	-1" / +3"	-1" / +3"	-1" / +3"	-1" / +3"	-1" / +3"
Motor Frame	182T	182T	182T	182T	182T
Starter Heater	DISCONNECT	DISCONNECT	DISCONNECT	DISCONNECT	DISCONNECT

### Remarks-

(1) Fan not operational at the time of the survey; turned off at the electrical disconnect.

(2) Backdraft damper is damaged; only partially open at the time of testing.



# TAB SERVICES, INC.

TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

## FAN TEST DATA

Project: CR BARD  
DISTRIBUTION CENTER SURVEY  
TAB#: 24024

Date: SURVEY 12/9/19  
Page: 16

Unit	EF-11	EF-12	EF-13	EF-14	EF-15
Manufacturer	COOLAIR	COOLAIR	COOLAIR	COOLAIR	COOLAIR
Model Number	JBC54PE8363	JBC54PE8363	JBC54PE8363	JBC54PE8363	JBC54PE8363
Serial Number	100603M127870	100603M127870	100603M127870	100603M127870	100603M127870
Design CFM	35856	35856	35856	35856	35856
Actual CFM	23897	23523	23282	24350	(1)
Design Static Pressure (in. w.c.)	0.13	0.13	0.13	0.13	0.13
Actual Static Pressure (in. w.c.)	NA	NA	NA	NA	(1)
Motor Manufacturer	BALDOR	BALDOR	BALDOR	BALDOR	BALDOR
Motor HP	3	3	3	3	3
Design Voltage / Phase	460/3	460/3	460/3	460/3	460/3
Actual Voltage	469/470/471	468/470/471	468/470/469	479/482/484	(1)
Design Amperage / Service Factor	4.1/1.15	4.1/1.15	4.1/1.15	4.1/1.15	4.1/1.15
Actual Amperage	3.2/3.0/3.5	3.2/3.2/3.5	3.0/3.2/3.5	3.0/3.1/3.5	(1)
Design Fan RPM	NG	NG	NG	NG	NG
Actual Fan RPM	614	605	602	625	(1)
Design Motor RPM	1750	1750	1750	1750	1750
Actual Motor RPM	1745	1760	1740	1751	(1)
Motor Sheave	5" OD x 1 1/2"				
Fan Sheave	12" OD x B 1 5/8"				
Belts	AX50	AX50	AX50	AX50	AX50
Center to Center (in.)	12"	12"	12"	12"	12"
Motor Adjustments in/out (in.)	-1" / +3"	-1" / +3"	-1" / +3"	-1" / +3"	-1" / +3"
Motor Frame	182T	182T	182T	182T	182T
Starter Heater	DISCONNECT	DISCONNECT	DISCONNECT	DISCONNECT	DISCONNECT

### Remarks-

(1) Fan not operational at the time of the survey; unable to energize the fan.



# TAB SERVICES, INC.

TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

## FAN TEST DATA

Project: CR BARD  
DISTRIBUTION CENTER SURVEY  
TAB#: 24024

Date: SURVEY 12/9/19  
Page: 17

Unit	EF-16	EF-17	EF-18	EF-19	EF-20
Manufacturer	COOLAIR	COOLAIR	COOLAIR	COOLAIR	COOLAIR
Model Number	JBC54PE8363	JBC54PE8363	JBC54PE8363	JBC54PE8363	JBC54PE8363
Serial Number	100603M127870	100603M127870	100603M127870	100603M127870	100603M127870
Design CFM	35856	35856	35856	35856	35856
Actual CFM	24484	25766	24404	24644	23816
Design Static Pressure (in. w.c.)	0.13	0.13	0.13	0.13	0.13
Actual Static Pressure (in. w.c.)	NA	NA	NA	NA	NA
Motor Manufacturer	BALDOR	BALDOR	BALDOR	BALDOR	BALDOR
Motor HP	3	3	3	3	3
Design Voltage / Phase	460/3	460/3	460/3	460/3	460/3
Actual Voltage	478/481/482	480/483/484	478/482/480	481/483/483	480/479/481
Design Amperage / Service Factor	4.1/1.15	4.1/1.15	4.1/1.15	4.1/1.15	4.1/1.15
Actual Amperage	3.0/3.3/3.5	2.9/3.4/3.5	3.1/3.2/3.5	2.9/3.4/3.5	2.8/3.2/3.4
Design Fan RPM	NG	NG	NG	NG	NG
Actual Fan RPM	632	652	631	638	606
Design Motor RPM	1750	1750	1750	1750	1750
Actual Motor RPM	1757	1763	1755	1760	1742
Motor Sheave	5" OD x 1 1/2"				
Fan Sheave	12" OD x B 1 5/8"				
Belts	AX50	AX50	AX50	AX50	AX50
Center to Center (in.)	12"	12"	12"	12"	12"
Motor Adjustments in/out (in.)	-1" / +3"	-1" / +3"	-1" / +3"	-1" / +3"	-1" / +3"
Motor Frame	182T	182T	182T	182T	182T
Starter Heater	DISCONNECT	DISCONNECT	DISCONNECT	DISCONNECT	DISCONNECT

Remarks-



# TAB SERVICES, INC.

TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

## FAN TEST DATA

Project: CR BARD  
DISTRIBUTION CENTER SURVEY  
TAB#: 24024

Date: SURVEY 12/9/19  
Page: 18

Unit	EF-21	EF-22	EF-23	EF-24	EF-25
Manufacturer	COOLAIR	COOLAIR	COOLAIR	COOLAIR	COOLAIR
Model Number	JBC54PE8363	JBC54PE8363	JBC54PE8363	JBC54PE8363	JBC54PE8363
Serial Number	100603M127870	100603M127870	100603M127870	100603M127870	100603M127870
Design CFM	35856	35856	35856	35856	35856
Actual CFM	23763	23256	25418	23816	24057
Design Static Pressure (in. w.c.)	0.13	0.13	0.13	0.13	0.13
Actual Static Pressure (in. w.c.)	NA	NA	NA	NA	NA
Motor Manufacturer	BALDOR	BALDOR	BALDOR	BALDOR	BALDOR
Motor HP	3	3	3	3	3
Design Voltage / Phase	460/3	460/3	460/3	460/3	460/3
Actual Voltage	481/485/486	480/479/483	478/483/481	481/479/480	480/483/479
Design Amperage / Service Factor	4.1/1.15	4.1/1.15	4.1/1.15	4.1/1.15	4.1/1.15
Actual Amperage	2.9/3.3/3.5	2.8/3.1/3.4	2.9/3.3/3.5	3.0/3.3/3.4	3.0/3.4/3.4
Design Fan RPM	NG	NG	NG	NG	NG
Actual Fan RPM	613	595	648	614	620
Design Motor RPM	1750	1750	1750	1750	1750
Actual Motor RPM	1756	1739	1771	1757	1755
Motor Sheave	5" OD x 1 1/2"				
Fan Sheave	12" OD x B 1 5/8"				
Belts	AX50	AX50	AX50	AX50	AX50
Center to Center (in.)	12"	12"	12"	12"	12"
Motor Adjustments in/out (in.)	-1" / +3"	-1" / +3"	-1" / +3"	-1" / +3"	-1" / +3"
Motor Frame	182T	182T	182T	182T	182T
Starter Heater	DISCONNECT	DISCONNECT	DISCONNECT	DISCONNECT	DISCONNECT

Remarks-



# TAB SERVICES, INC.

TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

## FAN TEST DATA

Project: CR BARD  
DISTRIBUTION CENTER SURVEY  
TAB#: 24024

Date: SURVEY 12/9/19  
Page: 19

Unit	EF-26	EF-27	EF-28		
Manufacturer	COOLAIR	COOLAIR	COOLAIR		
Model Number	JBC54PE8363	JBC54PE8363	JBC54PE8363		
Serial Number	100603M127870	100603M127870	100603M127870		
Design CFM	35856	35856	35856		
Actual CFM	23309	23790	24778		
Design Static Pressure (in. w.c.)	0.13	0.13	0.13		
Actual Static Pressure (in. w.c.)	NA	NA	NA		
Motor Manufacturer	BALDOR	BALDOR	BALDOR		
Motor HP	3	3	3		
Design Voltage / Phase	460/3	460/3	460/3		
Actual Voltage	481/485/479	480/482/478	480/481/477		
Design Amperage / Service Factor	4.1/1.15	4.1/1.15	4.1/1.15		
Actual Amperage	3.0/3.2/3.4	3.0/3.3/3.5	3.0/3.3/3.5		
Design Fan RPM	NG	NG	NG		
Actual Fan RPM	596	612	635		
Design Motor RPM	1750	1750	1750		
Actual Motor RPM	1739	1745	1761		
Motor Sheave	5" OD x 1 1/2"	5" OD x 1 1/2"	5" OD x 1 1/2"		
Fan Sheave	12" OD x B 1 5/8"	12" OD x B 1 5/8"	12" OD x B 1 5/8"		
Belts	AX50	AX50	AX50		
Center to Center (in.)	12"	12"	12"		
Motor Adjustments in/out (in.)	-1" / +3"	-1" / +3"	-1" / +3"		
Motor Frame	182T	182T	182T		
Starter Heater	DISCONNECT	DISCONNECT	DISCONNECT		

Remarks-



# **TAB SERVICES, INC.**

**TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093**

## **VELGRID TEST DATA**

**Project: CR BARD  
DISTRIBUTION CENTER SURVEY**

Date: SURVEY 12/9/19  
Page: 20

Unit	Duct Size (in.)	Area (ft. <sup>2</sup> )	Design		Actual		
			FPM	CFM	FPM	CFM	
EF-1	62 x 62	26.7	1343	35856	953	25445	
EF-2	62 x 62	26.7	1343	35856	908	24244	
EF-3	62 x 62	26.7	1343	35856	898	23977	
EF-4	62 x 62	26.7	1343	35856	932	24884	
EF-5	62 x 62	26.7	1343	35856	941	25125	
EF-6	62 x 62	26.7	1343	35856	- - -	(1)	
EF-7	62 x 62	26.7	1343	35856	909	24270	
EF-8	62 x 62	26.7	1343	35856	882	23549	
EF-9	62 x 62	26.7	1343	35856	540	14418 <sup>(2)</sup>	
EF-10	62 x 62	26.7	1343	35856	924	24671	
EF-11	62 x 62	26.7	1343	35856	895	23897	
EF-12	62 x 62	26.7	1343	35856	881	23523	
EF-13	62 x 62	26.7	1343	35856	872	23282	
EF-14	62 x 62	26.7	1343	35856	912	24350	
EF-15	62 x 62	26.7	1343	35856	- - -	(3)	
EF-16	62 x 62	26.7	1343	35856	917	24484	
EF-17	62 x 62	26.7	1343	35856	965	25766	
EF-18	62 x 62	26.7	1343	35856	914	24404	
EF-19	62 x 62	26.7	1343	35856	923	24644	
EF-20	62 x 62	26.7	1343	35856	892	23816	
EF-21	62 x 62	26.7	1343	35856	890	23763	
EF-22	62 x 62	26.7	1343	35856	871	23256	
EF-23	62 x 62	26.7	1343	35856	952	25418	
EF-24	62 x 62	26.7	1343	35856	892	23816	
EF-25	62 x 62	26.7	1343	35856	901	24057	
EF-26	62 x 62	26.7	1343	35856	873	23309	
EF-27	62 x 62	26.7	1343	35856	891	23790	
EF-28	62 x 62	26.7	1343	35856	928	24778	

### **Remarks-**

<sup>(1)</sup> Fan not operational at the time of the survey; turned off at the electrical disconnect.

(2) Backdraft damper is damaged: only partially open at the time of testing

(3) Fan not operational at the time of the survey; unable to energize the fan.



# **TAB SERVICES, INC.**

**TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093**

## **VELGRID TEST DATA**

**Project: CR BARD  
DISTRIBUTION CENTER SURVEY**

Date: SURVEY 12/9/19  
Page: 21

### **Remarks-**

<sup>(1)</sup> The connecting doors between areas L-1 & L-2 and between areas L-2 & L-3 were open at the time of testing.

<sup>(2)</sup> Louver stuck in the closed position.

<sup>(3)</sup> One of the 23x23 intake mesh filters was not installed at the time of the survey.



# TAB SERVICES, INC.

TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

## FAN TEST DATA

Project: CR BARD  
DISTRIBUTION CENTER SURVEY  
TAB#: 24024

Date: SURVEY 12/9/19  
Page: 22

Unit	EF-29	EF-30	EF-31	EF-32	EF-33A
Manufacturer	COOK	COOK	COOK	COOK	COOK
Model Number	540LXUL54LXUL	360LXUL36LXUL	540LXUL54LXUL	540LXUL54LXUL	360LXUL36LXUL
Serial Number	NA <sup>(1)</sup>	NL	NA <sup>(1)</sup>	050SC36201 -01/0000701	044S129344 -00/0000702
Design CFM	30000	15000	30000	30000	15000
Actual CFM	NA <sup>(1)</sup>	16281	NA <sup>(1)</sup>	NA <sup>(1)</sup>	16601
Design Static Pressure (in. w.c.)	0.13	0.10	0.13	0.13	0.10
Actual Static Pressure (in. w.c.)	NA <sup>(1)</sup>	NA	NA <sup>(1)</sup>	NA <sup>(1)</sup>	NA
Motor Manufacturer	NA <sup>(1)</sup>	WESTINGHOUSE	NA <sup>(1)</sup>	NA <sup>(1)</sup>	WESTINGHOUSE
Motor HP	NA <sup>(1)</sup>	3	NA <sup>(1)</sup>	3	3
Design Voltage / Phase	460/3	460/3	460/3	460/3	460/3
Actual Voltage	NA <sup>(1)</sup>	470/468/469	NA <sup>(1)</sup>	NA <sup>(1)</sup>	471/470/470
Design Amperage / Service Factor	NA <sup>(1)</sup>	NL/1.15	NA <sup>(1)</sup>	NA <sup>(1)</sup>	NL/1.15
Actual Amperage	NA <sup>(1)</sup>	2.9/2.9/2.9	NA <sup>(1)</sup>	NA <sup>(1)</sup>	2.9/3.0/3.2
Design Fan RPM	392	645	392	392	645
Actual Fan RPM	NA <sup>(1)</sup>	664	NA <sup>(1)</sup>	NA <sup>(1)</sup>	671
Design Motor RPM	1725	1725	1725	1725	1725
Actual Motor RPM	NA <sup>(1)</sup>	1740	NA <sup>(1)</sup>	NA <sup>(1)</sup>	1756
Motor Sheave	NA <sup>(1)</sup>	4" OD	NA <sup>(1)</sup>	NA <sup>(1)</sup>	4" OD
Fan Sheave	NA <sup>(1)</sup>	9 1/4" OD	NA <sup>(1)</sup>	NA <sup>(1)</sup>	9 1/4" OD
Belts	NA <sup>(1)</sup>	(2) A35	NA <sup>(1)</sup>	NA <sup>(1)</sup>	(2) A35
Center to Center (in.)	NA <sup>(1)</sup>	8"	NA <sup>(1)</sup>	NA <sup>(1)</sup>	8"
Motor Adjustments in/out (in.)	NA <sup>(1)</sup>	-1" / +3"	NA <sup>(1)</sup>	NA <sup>(1)</sup>	-1" / +3"
Motor Frame	NA <sup>(1)</sup>	NL	NA <sup>(1)</sup>	NA <sup>(1)</sup>	NL
Starter Heater	NA <sup>(1)</sup>	DISCONNECT	NA <sup>(1)</sup>	NA <sup>(1)</sup>	DISCONNECT

### Remarks-

<sup>(1)</sup> Existing fan not operating at the time of the survey.



# TAB SERVICES, INC.

TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

## FAN TEST DATA

Project: CR BARD  
DISTRIBUTION CENTER SURVEY  
TAB#: 24024

Date: SURVEY 12/9/19  
Page: 23

Unit	EF-33B	F-5-A	F-5-B	F-5-C	F-5-D
Manufacturer	COOK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
Model Number	540LXUL54LXUL	RBU-3L48-50	RBU-3L48-50	RBU-3L48-50	RBU-3L48-50
Serial Number	050SC36201 -01/0004706	15126158	15126154	15126155	15126153
Design CFM	30000	38974	38974	38974	38974
Actual CFM	NA <sup>(1)</sup>	NA <sup>(1)</sup>	25232	30780	NA <sup>(1)</sup>
Design Static Pressure (in. w.c.)	0.13	NG	NG	NG	NG
Actual Static Pressure (in. w.c.)	NA <sup>(1)</sup>	NA <sup>(1)</sup>	NA	NA	NA
Motor Manufacturer	NA <sup>(1)</sup>	BALDOR	BALDOR	BALDOR	BALDOR
Motor HP	3	5	5	5	5
Design Voltage / Phase	460/3	460/3	460/3	460/3	460/3
Actual Voltage	NA <sup>(1)</sup>	NA <sup>(1)</sup>	469/471/471	470/469/471	NA <sup>(1)</sup>
Design Amperage / Service Factor	NA <sup>(1)</sup>	6.6/1.15	6.6/1.15	6.6/1.15	6.6/1.15
Actual Amperage	NA <sup>(1)</sup>	NA <sup>(1)</sup>	4.4/4.4/4.6	5.6/5.8/5.8	NA <sup>(1)</sup>
Design Fan RPM	392	NG	NG	NG	NG
Actual Fan RPM	NA <sup>(1)</sup>	NA <sup>(1)</sup>	510	584	NA <sup>(1)</sup>
Design Motor RPM	1725	1750	1750	1750	1750
Actual Motor RPM	NA <sup>(1)</sup>	NA <sup>(1)</sup>	1739	1755	NA <sup>(1)</sup>
Motor Sheave	NA <sup>(1)</sup>	2VP50 x 1 1/8"			
Fan Sheave	NA <sup>(1)</sup>	14" OD x B 1 1/2"			
Belts	NA <sup>(1)</sup>	(2) AX56	(2) AX56	(2) AX56	(2) AX56
Center to Center (in.)	NA <sup>(1)</sup>	14 1/2"	14 1/2"	14 1/2"	14 1/2"
Motor Adjustments in/out (in.)	NA <sup>(1)</sup>	-1" / +1"	-1" / +1"	-1" / +1"	-1" / +1"
Motor Frame	NA <sup>(1)</sup>	184T	184T	184T	184T
Starter Heater	NA <sup>(1)</sup>	DISCONNECT	DISCONNECT	DISCONNECT	DISCONNECT

### Remarks-

<sup>(1)</sup> Existing fan not operating at the time of the survey.



# TAB SERVICES, INC.

TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

## FAN TEST DATA

Project: CR BARD  
DISTRIBUTION CENTER SURVEY  
TAB#: 24024

Date: SURVEY 12/9/19  
Page: 24

Unit	F-5-E	F-5-F	F-5-G		
Manufacturer	GREENHECK	GREENHECK	GREENHECK		
Model Number	RBU-3L48-50	RBU-3L48-50	RBU-3L48-50		
Serial Number	15126152	15126156	15126157		
Design CFM	38974	38974	38974		
Actual CFM	26912	NA <sup>(1)</sup>	26366		
Design Static Pressure (in. w.c.)	NG	NG	NG		
Actual Static Pressure (in. w.c.)	NA	NA <sup>(1)</sup>	NA		
Motor Manufacturer	BALDOR	BALDOR	BALDOR		
Motor HP	5	5	5		
Design Voltage / Phase	460/3	460/3	460/3		
Actual Voltage	469/469/471	NA <sup>(1)</sup>	469/469/471		
Design Amperage / Service Factor	6.6/1.15	6.6/1.15	6.6/1.15		
Actual Amperage	4.4/4.5/4.4	NA <sup>(1)</sup>	4.4/4.5/4.6		
Design Fan RPM	NG	NG	NG		
Actual Fan RPM	517	NA <sup>(1)</sup>	511		
Design Motor RPM	1750	1750	1750		
Actual Motor RPM	1763	NA <sup>(1)</sup>	1752		
Motor Sheave	2VP50 x 1 1/8"	2VP50 x 1 1/8"	2VP50 x 1 1/8"		
Fan Sheave	14" OD x B 1 1/2"	14" OD x B 1 1/2"	14" OD x B 1 1/2"		
Belts	(2) AX56	(2) AX56	(2) AX56		
Center to Center (in.)	14 1/2"	14 1/2"	14 1/2"		
Motor Adjustments in/out (in.)	-1" / +1"	-1" / +1"	-1" / +1"		
Motor Frame	184T	184T	184T		
Starter Heater	DISCONNECT	DISCONNECT	DISCONNECT		

### Remarks-

<sup>(1)</sup> Existing fan not operating at the time of the survey.



# **TAB SERVICES, INC.**

**TESTING, ADJUSTING AND BALANCING AIR CONDITIONING, VENTILATING AND HEATING SYSTEMS  
5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093**

## **TRAVERSE / VELGRID TEST DATA**

**Project: CR BARD  
DISTRIBUTION CENTER SURVEY**

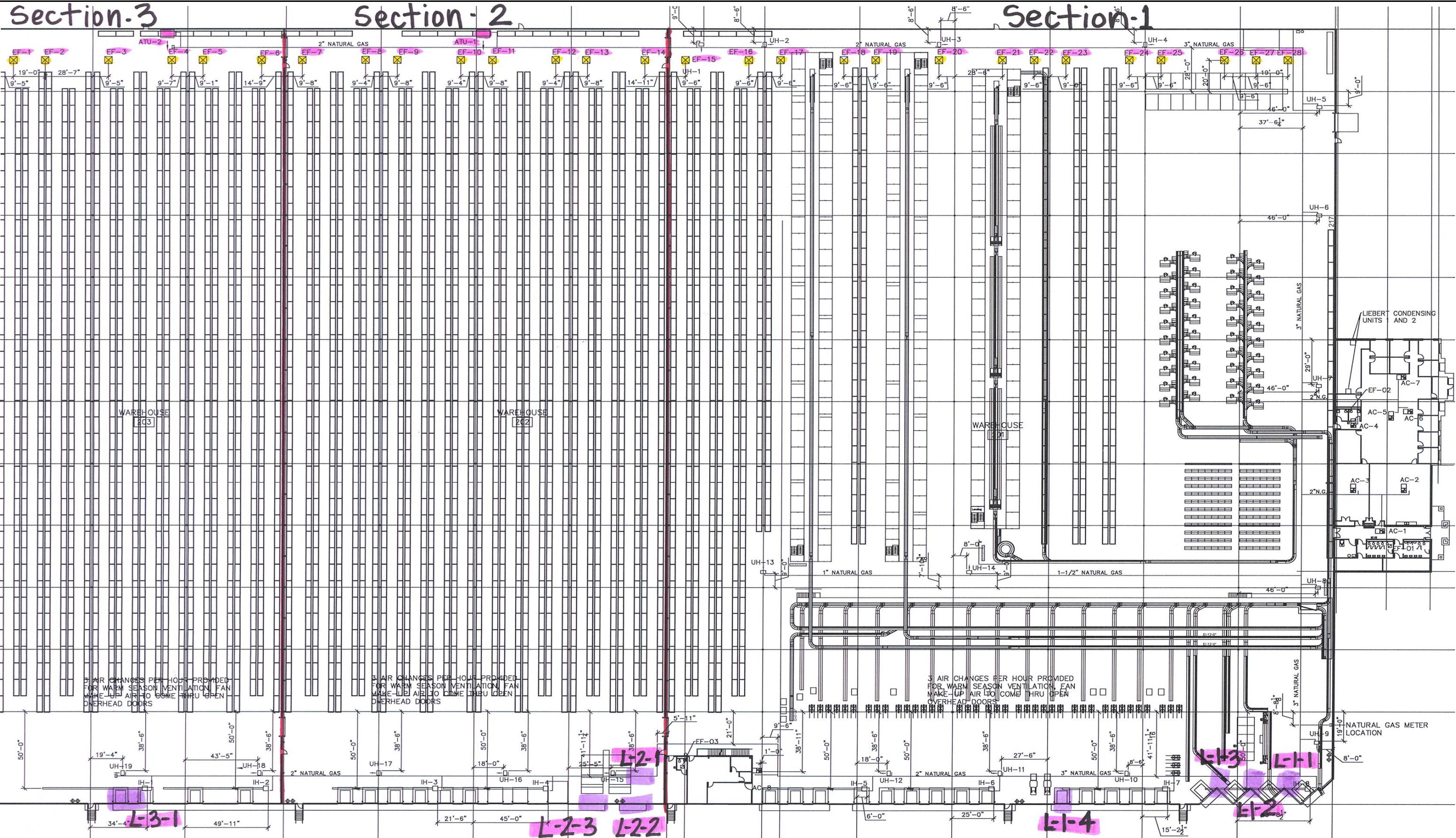
Date: SURVEY 12/9/19  
Page: 25

**Remarks-**

Section.3

Section - 2

Section.1



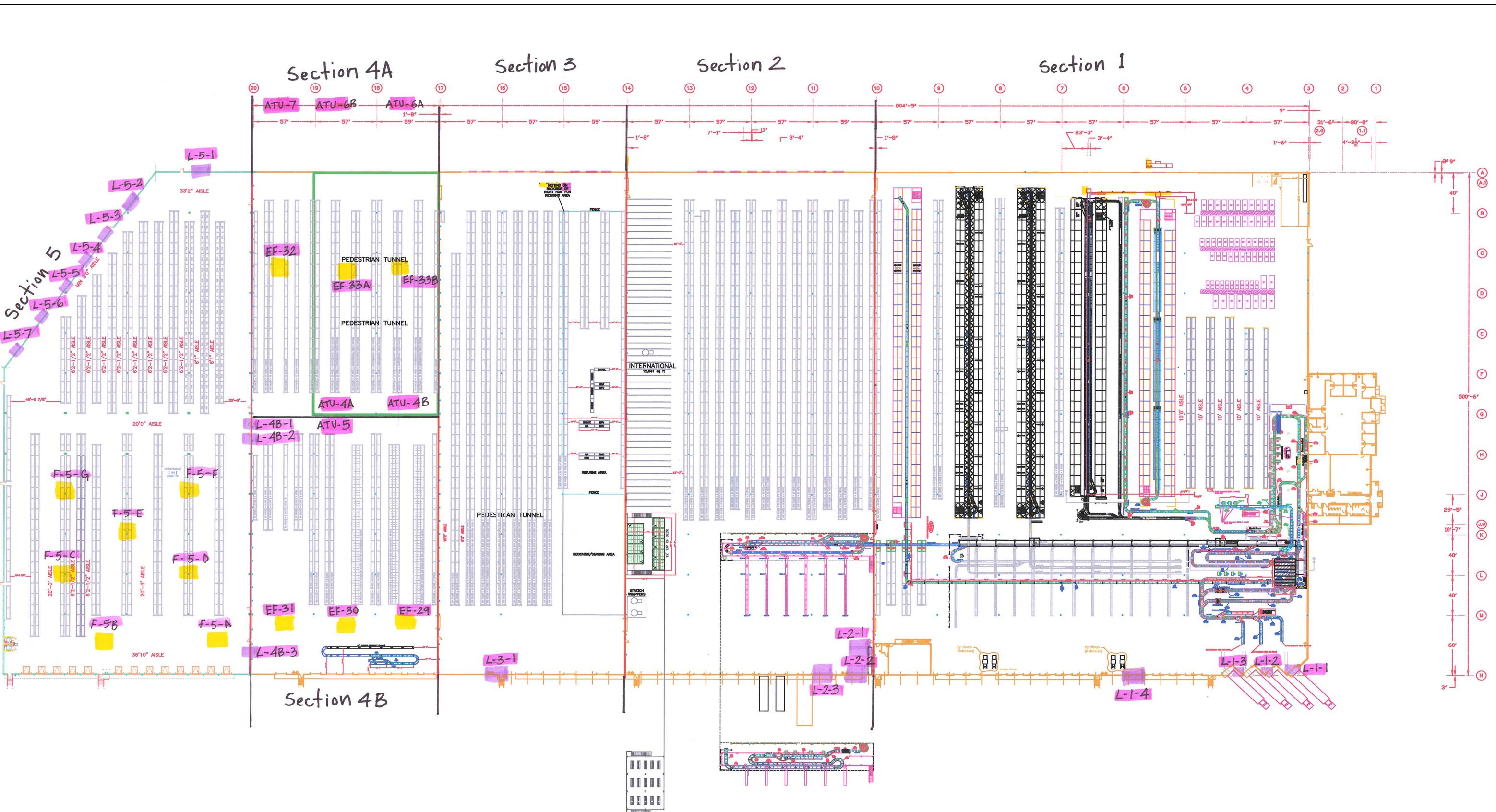
**TAB SERVICES, INC.**

MECHANICAL PLAN

CR BARD  
DISTRIBUTION CENTER SURVEY

5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

TAB Number	Date	Drawing Number
24024	SURVEY 12/9/19	M1.1



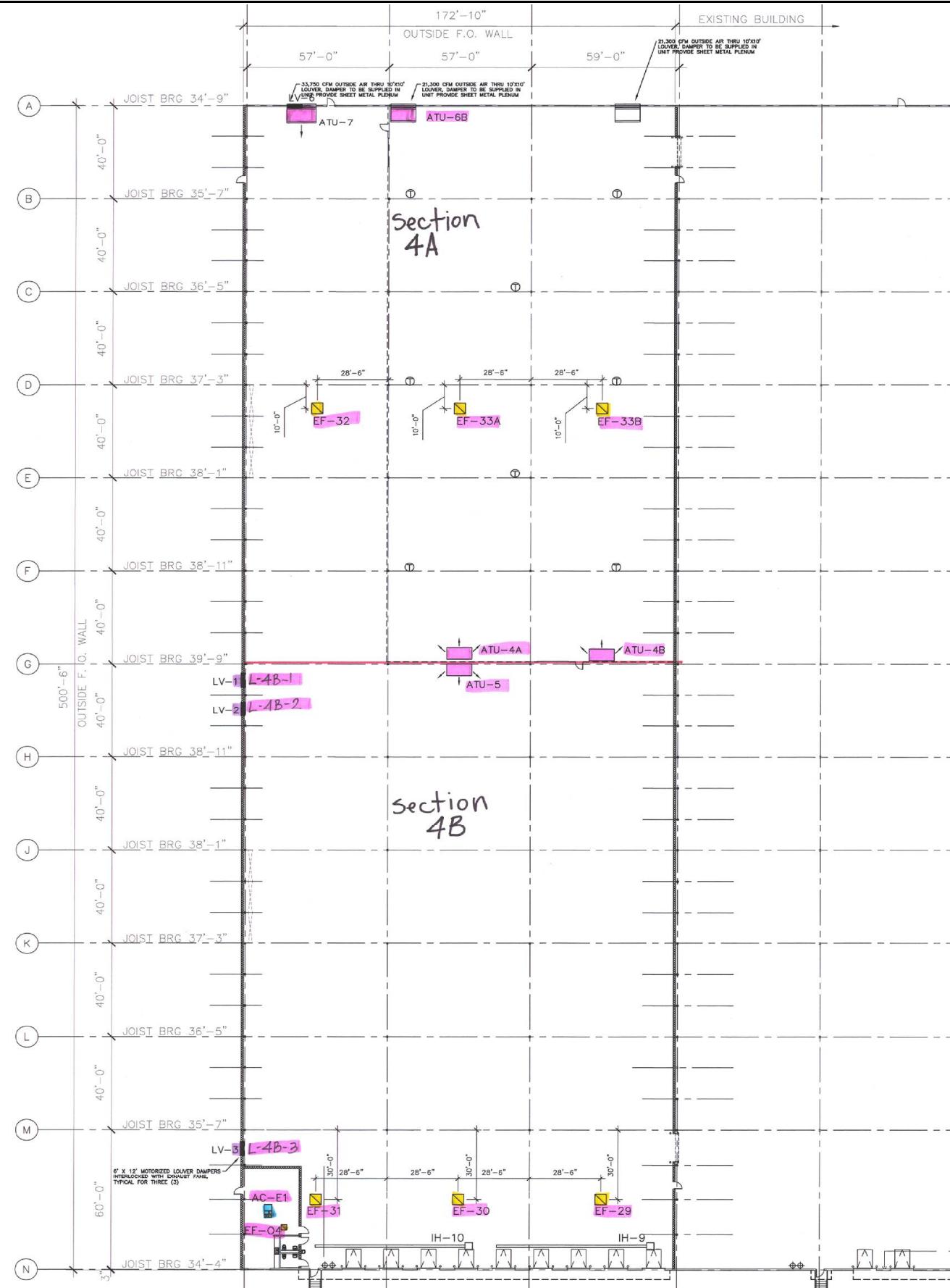
# **TAB SERVICES, INC.**

5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

## **MECHANICAL - OVERALL PLAN**

## CR BARD DISTRIBUTION CENTER SURVEY

TAB Number	Date	Drawing Number
24024	SURVEY 12/9/19	M-0



**TAB SERVICES, INC.**

MECHANICAL - ENLARGED PARTIAL PLAN  
SECTION 4A & 4B

5680 OAKBROOK PARKWAY, SUITE 175, NORCROSS, GEORGIA 30093

CR BARD  
DISTRIBUTION CENTER SURVEY

TAB Number	Date	Drawing Number
24024	SURVEY 12/9/19	M1.1

**APPENDIX 3  
LAB REPORTS**

11/27/2019  
Mr. Robert DeMott  
Ramboll Environ  
10150 Highland Manor Drive  
Suite 440  
Tampa FL 33610

Project Name: K & S Bard  
Project #: 1690014483  
Workorder #: 1911536

Dear Mr. Robert DeMott

The following report includes the data for the above referenced project for sample(s) received on 11/25/2019 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Brian Whittaker  
Project Manager

**WORK ORDER #:** 1911536

Work Order Summary

<b>CLIENT:</b>	Mr. Robert DeMott Ramboll 10150 Highland Manor Drive Suite 440 Tampa, FL 33610	<b>BILL TO:</b>	Accounts Payable Ramboll 10150 Highland Manor Drive Suite 440 Tampa, FL 33610
<b>PHONE:</b>	813-628-4325	<b>P.O. #</b>	
<b>FAX:</b>	813-628-4983	<b>PROJECT #</b>	1690014483 K & S Bard
<b>DATE RECEIVED:</b>	11/25/2019	<b>CONTACT:</b>	Brian Whittaker
<b>DATE COMPLETED:</b>	11/27/2019		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	GDC-S1A 20191121	Modified TO-15 SIM	6.5 "Hg	5 psi
02A	GDC-S1B 20191121	Modified TO-15 SIM	7.5 "Hg	5 psi
03A	GDC-S2 20191121	Modified TO-15 SIM	6.5 "Hg	5 psi
04A	GDC-S3 20191121	Modified TO-15 SIM	7.0 "Hg	5 psi
05A	GDC-S4E 20191121	Modified TO-15 SIM	6.5 "Hg	5 psi
06A	GDC-S4W 20191121	Modified TO-15 SIM	6.5 "Hg	5 psi
07A	GDC-S5 20191121	Modified TO-15 SIM	7.5 "Hg	5 psi
08A	GDC-D 20191121	Modified TO-15 SIM	7.5 "Hg	5 psi
09A	GDC-W1 20191121	Modified TO-15 SIM	7.0 "Hg	5 psi
10A	GDC-P1 20191121	Modified TO-15 SIM	6.5 "Hg	5 psi
11A	Lab Blank	Modified TO-15 SIM	NA	NA
11B	Lab Blank	Modified TO-15 SIM	NA	NA
12A	CCV	Modified TO-15 SIM	NA	NA
12B	CCV	Modified TO-15 SIM	NA	NA
13A	LCS	Modified TO-15 SIM	NA	NA
13AA	LCSD	Modified TO-15 SIM	NA	NA
13B	LCS	Modified TO-15 SIM	NA	NA
13BB	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY:



DATE: 11/27/19

Technical Director

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630  
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

**LABORATORY NARRATIVE  
EPA TO-15 Ethylene oxide (SIM)  
Ramboll Environ  
Workorder# 1911536**

Eight 6 Liter Summa Canister (EO) and two 6 Liter Summa Canister (100% SIM Ambient) samples were received on November 25, 2019. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the SIM acquisition mode for the measurement of Ethylene oxide in ambient air.

**Receiving Notes**

There were no receiving discrepancies.

**Analytical Notes**

Ethylene Oxide is not included on the laboratory's NELAP scope of accreditation for TO-15 SIM. However, TO-15 method and NELAP quality requirements were met.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. The canisters used for this project have been certified to the Reporting Limit for Ethylene Oxide. Concentrations that are below the level at which the canister was certified may be false positives.

The compound 2,5-Dimethylfuran is reported as a semi-quantitative concentration using a three-point calibration with the lowest calibration level of 0.05 ppbv used to establish the reporting limit. No second source verification of the calibration was performed, and no method detection limit study was conducted.

Dilution was performed on samples GDC-S2 20191121, GDC-S3 20191121 and GDC-S5 20191121 due to the presence of high level target species.

**Definition of Data Qualifying Flags**

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See Case Narrative

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
K & S Bard

<b>Client ID:</b>	GDC-S1A 20191121	<b>Date/Time Analyzed:</b>	11/25/19 06:06 PM
<b>Lab ID:</b>	1911536-01A	<b>Dilution Factor:</b>	1.71
<b>Date/Time Collected:</b>	11/22/19 12:36 PM	<b>Instrument/Filename:</b>	msd30.i / 30112509sim
<b>Media:</b>	6 Liter Summa Canister (EO)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	0.34	Not Detected
Ethylene Oxide	75-21-8	0.046	D	0.15	90

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
K & S Bard

<b>Client ID:</b>	GDC-S1B 20191121	<b>Date/Time Analyzed:</b>	11/25/19 06:50 PM
<b>Lab ID:</b>	1911536-02A	<b>Dilution Factor:</b>	1.79
<b>Date/Time Collected:</b>	11/22/19 12:42 PM	<b>Instrument/Filename:</b>	msd30.i / 30112510sim
<b>Media:</b>	6 Liter Summa Canister (EO)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	0.35	Not Detected
Ethylene Oxide	75-21-8	0.048	D	0.16	200

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM

K &amp; S Bard

<b>Client ID:</b>	GDC-S2 20191121	<b>Date/Time Analyzed:</b>	11/26/19 05:47 PM
<b>Lab ID:</b>	1911536-03A	<b>Dilution Factor:</b>	13.7
<b>Date/Time Collected:</b>	11/22/19 12:47 PM	<b>Instrument/Filename:</b>	msd30.i / 30112610sim
<b>Media:</b>	6 Liter Summa Canister (EO)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	2.7	Not Detected
Ethylene Oxide	75-21-8	0.37	D	1.2	1300

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM

K &amp; S Bard

<b>Client ID:</b>	GDC-S3 20191121	<b>Date/Time Analyzed:</b>	11/26/19 06:34 PM
<b>Lab ID:</b>	1911536-04A	<b>Dilution Factor:</b>	28.0
<b>Date/Time Collected:</b>	11/22/19 12:54 PM	<b>Instrument/Filename:</b>	msd30.i / 30112611sim
<b>Media:</b>	6 Liter Summa Canister (EO)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	5.5	Not Detected
Ethylene Oxide	75-21-8	0.75	D	2.5	2100

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
K & S Bard

<b>Client ID:</b>	GDC-S4E 20191121	<b>Date/Time Analyzed:</b>	11/25/19 09:02 PM
<b>Lab ID:</b>	1911536-05A	<b>Dilution Factor:</b>	1.71
<b>Date/Time Collected:</b>	11/22/19 01:12 PM	<b>Instrument/Filename:</b>	msd30.i / 30112513sim
<b>Media:</b>	6 Liter Summa Canister (EO)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	0.34	Not Detected
Ethylene Oxide	75-21-8	0.046	D	0.15	96

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
K & S Bard

<b>Client ID:</b>	GDC-S4W 20191121	<b>Date/Time Analyzed:</b>	11/25/19 11:38 PM
<b>Lab ID:</b>	1911536-06A	<b>Dilution Factor:</b>	1.71
<b>Date/Time Collected:</b>	11/22/19 01:21 PM	<b>Instrument/Filename:</b>	msd30.i / 30112515sim
<b>Media:</b>	6 Liter Summa Canister (EO)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	0.34	Not Detected
Ethylene Oxide	75-21-8	0.046	D	0.15	59

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM

K &amp; S Bard

<b>Client ID:</b>	GDC-S5 20191121	<b>Date/Time Analyzed:</b>	11/26/19 07:14 PM
<b>Lab ID:</b>	1911536-07A	<b>Dilution Factor:</b>	3.57
<b>Date/Time Collected:</b>	11/22/19 01:28 PM	<b>Instrument/Filename:</b>	msd30.i / 30112612sim
<b>Media:</b>	6 Liter Summa Canister (EO)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	0.70	Not Detected
Ethylene Oxide	75-21-8	0.096	D	0.32	490

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM

K &amp; S Bard

<b>Client ID:</b>	GDC-D 20191121	<b>Date/Time Analyzed:</b>	11/26/19 01:06 AM
<b>Lab ID:</b>	1911536-08A	<b>Dilution Factor:</b>	1.79
<b>Date/Time Collected:</b>	11/22/19 01:12 PM	<b>Instrument/Filename:</b>	msd30.i / 30112517sim
<b>Media:</b>	6 Liter Summa Canister (EO)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	0.35	Not Detected
Ethylene Oxide	75-21-8	0.048	D	0.16	83

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM

K &amp; S Bard

<b>Client ID:</b>	GDC-W1 20191121	<b>Date/Time Analyzed:</b>	11/26/19 01:50 AM
<b>Lab ID:</b>	1911536-09A	<b>Dilution Factor:</b>	1.75
<b>Date/Time Collected:</b>	11/22/19 01:49 PM	<b>Instrument/Filename:</b>	msd30.i / 30112518sim
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	0.34	Not Detected
Ethylene Oxide	75-21-8	0.047	D	0.16	0.93

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM

K &amp; S Bard

<b>Client ID:</b>	GDC-P1 20191121	<b>Date/Time Analyzed:</b>	11/26/19 02:34 AM
<b>Lab ID:</b>	1911536-10A	<b>Dilution Factor:</b>	1.71
<b>Date/Time Collected:</b>	11/22/19 01:41 PM	<b>Instrument/Filename:</b>	msd30.i / 30112519sim
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	0.34	Not Detected
Ethylene Oxide	75-21-8	0.046	D	0.15	0.76

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM

K &amp; S Bard

<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	11/25/19 11:54 AM
<b>Lab ID:</b>	1911536-11A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd30.i / 30112506sim
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	0.20	Not Detected
Ethylene Oxide	75-21-8	0.027	D	0.090	Not Detected

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM

K &amp; S Bard

<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	11/26/19 02:22 PM
<b>Lab ID:</b>	1911536-11B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd30.i / 30112607sim
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	0.20	Not Detected
Ethylene Oxide	75-21-8	0.027	D	0.090	Not Detected

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM

K &amp; S Bard

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	11/25/19 08:47 AM
<b>Lab ID:</b>	1911536-12A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd30.i / 30112502sim
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
2,5-Dimethylfuran	625-86-5	74
Ethylene Oxide	75-21-8	95

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM

K &amp; S Bard

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	11/26/19 11:10 AM
<b>Lab ID:</b>	1911536-12B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd30.i / 30112603sim
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
2,5-Dimethylfuran	625-86-5	98
Ethylene Oxide	75-21-8	94

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM

K &amp; S Bard

<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	11/25/19 09:29 AM
<b>Lab ID:</b>	1911536-13A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd30.i / 30112503sim
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
2,5-Dimethylfuran	625-86-5	Not Spiked
Ethylene Oxide	75-21-8	121

D: Analyte not within the DoD scope of accreditation.

\* % Recovery is calculated using unrounded analytical results.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM

K &amp; S Bard

<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	11/25/19 10:10 AM
<b>Lab ID:</b>	1911536-13AA	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd30.i / 30112504sim
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
2,5-Dimethylfuran	625-86-5	Not Spiked
Ethylene Oxide	75-21-8	123

D: Analyte not within the DoD scope of accreditation.

\* % Recovery is calculated using unrounded analytical results.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM

K &amp; S Bard

<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	11/26/19 11:52 AM
<b>Lab ID:</b>	1911536-13B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd30.i / 30112604sim
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
2,5-Dimethylfuran	625-86-5	Not Spiked
Ethylene Oxide	75-21-8	116

D: Analyte not within the DoD scope of accreditation.

\* % Recovery is calculated using unrounded analytical results.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM

K &amp; S Bard

<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	11/26/19 12:33 PM
<b>Lab ID:</b>	1911536-13BB	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd30.i / 30112605sim
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
2,5-Dimethylfuran	625-86-5	Not Spiked
Ethylene Oxide	75-21-8	111

D: Analyte not within the DoD scope of accreditation.

\* % Recovery is calculated using unrounded analytical results.

12/10/2019  
Mr. Robert DeMott  
Ramboll Environ  
10150 Highland Manor Drive  
Suite 440  
Tampa FL 33610

Project Name: K&S Bard  
Project #:  
Workorder #: 1912125

Dear Mr. Robert DeMott

The following report includes the data for the above referenced project for sample(s) received on 12/6/2019 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Brian Whittaker  
Project Manager

**WORK ORDER #:** 1912125

Work Order Summary

<b>CLIENT:</b>	Mr. Robert DeMott Ramboll 10150 Highland Manor Drive Suite 440 Tampa, FL 33610	<b>BILL TO:</b>	Accounts Payable Ramboll 10150 Highland Manor Drive Suite 440 Tampa, FL 33610
<b>PHONE:</b>	813-628-4325	<b>P.O. #</b>	1690014483
<b>FAX:</b>	813-628-4983	<b>PROJECT #</b>	K&S Bard
<b>DATE RECEIVED:</b>	12/06/2019	<b>CONTACT:</b>	Brian Whittaker
<b>DATE COMPLETED:</b>	12/10/2019		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	GDC-S1A 20191204	Modified TO-15 SIM	8.0 "Hg	5 psi
02A	GDC-S1B 20191204	Modified TO-15 SIM	8.0 "Hg	5 psi
03A	GDC-S2 20191204	Modified TO-15 SIM	7.5 "Hg	5 psi
04A	GDC-S3 20191204	Modified TO-15 SIM	7.5 "Hg	5 psi
05A	GDC-S4E 20191204	Modified TO-15 SIM	8.5 "Hg	5 psi
06A	GDC-S4W 20191204	Modified TO-15 SIM	7.5 "Hg	5 psi
07A	GDC-S5 20191204	Modified TO-15 SIM	7.5 "Hg	5 psi
08A	GDC-D 20191204	Modified TO-15 SIM	7.0 "Hg	5 psi
09A	GDC-P1 20191204	Modified TO-15 SIM	6.0 "Hg	5 psi
10A	GDC-W1 20191204	Modified TO-15 SIM	6.5 "Hg	5 psi
10AA	GDC-W1 20191204 Lab Duplicate	Modified TO-15 SIM	6.5 "Hg	5 psi
11A	Lab Blank	Modified TO-15 SIM	NA	NA
12A	CCV	Modified TO-15 SIM	NA	NA
13A	LCS	Modified TO-15 SIM	NA	NA
13AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY:



DATE: 12/10/19

Technical Director

**LABORATORY NARRATIVE  
EPA TO-15 Ethylene oxide (SIM)  
Ramboll Environ  
Workorder# 1912125**

Ten 6 Liter Summa Canister samples were received on December 06, 2019. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the SIM acquisition mode for the measurement of Ethylene oxide in ambient air.

**Receiving Notes**

There were no receiving discrepancies.

**Analytical Notes**

Ethylene Oxide is not included on the laboratory's NELAP scope of accreditation for TO-15 SIM. However, TO-15 method and NELAP quality requirements were met.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. The canisters used for this project have been certified to the Reporting Limit for Ethylene Oxide. Concentrations that are below the level at which the canister was certified may be false positives.

The compound 2,5-Dimethylfuran is reported as a semi-quantitative concentration using a three-point calibration with the lowest calibration level of 0.05 ppbv used to establish the reporting limit. No second source verification of the calibration was performed, and no method detection limit study was conducted.

Dilution was performed on samples GDC-S2 20191204, GDC-S3 20191204, GDC-S5 20191204 and GDC-D 20191204 due to the presence of high level target species.

**Definition of Data Qualifying Flags**

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See Case Narrative

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
K&S Bard

<b>Client ID:</b>	GDC-S1A 20191204	<b>Date/Time Analyzed:</b>	12/10/19 04:32 AM
<b>Lab ID:</b>	1912125-01A	<b>Dilution Factor:</b>	1.83
<b>Date/Time Collected:</b>	12/5/19 11:54 AM	<b>Instrument/Filename:</b>	msd30.i / 30120925sim
<b>Media:</b>	6 Liter Summa Canister (EO)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	0.36	Not Detected
Ethylene Oxide	75-21-8	0.049	D	0.16	48

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
K&S Bard

<b>Client ID:</b>	GDC-S1B 20191204	<b>Date/Time Analyzed:</b>	12/10/19 03:48 AM
<b>Lab ID:</b>	1912125-02A	<b>Dilution Factor:</b>	1.83
<b>Date/Time Collected:</b>	12/5/19 12:00 PM	<b>Instrument/Filename:</b>	msd30.i / 30120924sim
<b>Media:</b>	6 Liter Summa Canister (EO)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	0.36	Not Detected
Ethylene Oxide	75-21-8	0.049	D	0.16	190

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
K&S Bard

<b>Client ID:</b>	GDC-S2 20191204	<b>Date/Time Analyzed:</b>	12/10/19 05:53 AM
<b>Lab ID:</b>	1912125-03A	<b>Dilution Factor:</b>	14.3
<b>Date/Time Collected:</b>	12/5/19 12:13 PM	<b>Instrument/Filename:</b>	msd30.i / 30120927sim
<b>Media:</b>	6 Liter Summa Canister (EO)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	2.8	Not Detected
Ethylene Oxide	75-21-8	0.38	D	1.3	770

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
K&S Bard

<b>Client ID:</b>	GDC-S3 20191204	<b>Date/Time Analyzed:</b>	12/10/19 06:33 AM
<b>Lab ID:</b>	1912125-04A	<b>Dilution Factor:</b>	17.9
<b>Date/Time Collected:</b>	12/5/19 12:24 PM	<b>Instrument/Filename:</b>	msd30.i / 30120928sim
<b>Media:</b>	6 Liter Summa Canister (EO)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	3.5	Not Detected
Ethylene Oxide	75-21-8	0.48	D	1.6	1700

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
K&S Bard

<b>Client ID:</b>	GDC-S4E 20191204	<b>Date/Time Analyzed:</b>	12/10/19 03:04 AM
<b>Lab ID:</b>	1912125-05A	<b>Dilution Factor:</b>	1.87
<b>Date/Time Collected:</b>	12/5/19 12:35 PM	<b>Instrument/Filename:</b>	msd30.i / 30120923sim
<b>Media:</b>	6 Liter Summa Canister (EO)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	0.37	Not Detected
Ethylene Oxide	75-21-8	0.050	D	0.17	160

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
K&S Bard

<b>Client ID:</b>	GDC-S4W 20191204	<b>Date/Time Analyzed:</b>	12/10/19 02:20 AM
<b>Lab ID:</b>	1912125-06A	<b>Dilution Factor:</b>	1.79
<b>Date/Time Collected:</b>	12/5/19 12:44 PM	<b>Instrument/Filename:</b>	msd30.i / 30120922sim
<b>Media:</b>	6 Liter Summa Canister (EO)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	0.35	Not Detected
Ethylene Oxide	75-21-8	0.048	D	0.16	120

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
K&S Bard

<b>Client ID:</b>	GDC-S5 20191204	<b>Date/Time Analyzed:</b>	12/10/19 09:10 AM
<b>Lab ID:</b>	1912125-07A	<b>Dilution Factor:</b>	14.3
<b>Date/Time Collected:</b>	12/5/19 12:54 PM	<b>Instrument/Filename:</b>	msd30.i / 30120932sim
<b>Media:</b>	6 Liter Summa Canister (EO)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	2.8	Not Detected
Ethylene Oxide	75-21-8	0.38	D	1.3	1300

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
K&S Bard

<b>Client ID:</b>	GDC-D 20191204	<b>Date/Time Analyzed:</b>	12/10/19 08:31 AM
<b>Lab ID:</b>	1912125-08A	<b>Dilution Factor:</b>	6.99
<b>Date/Time Collected:</b>	12/5/19 12:13 PM	<b>Instrument/Filename:</b>	msd30.i / 30120931sim
<b>Media:</b>	6 Liter Summa Canister (EO)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	1.4	Not Detected
Ethylene Oxide	75-21-8	0.19	D	0.63	800

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
K&S Bard

<b>Client ID:</b>	GDC-P1 20191204	<b>Date/Time Analyzed:</b>	12/10/19 12:52 AM
<b>Lab ID:</b>	1912125-09A	<b>Dilution Factor:</b>	1.68
<b>Date/Time Collected:</b>	12/5/19 01:24 PM	<b>Instrument/Filename:</b>	msd30.i / 30120920sim
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	0.33	Not Detected
Ethylene Oxide	75-21-8	0.045	D	0.15	0.30

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
K&S Bard

<b>Client ID:</b>	GDC-W1 20191204	<b>Date/Time Analyzed:</b>	12/9/19 11:23 PM
<b>Lab ID:</b>	1912125-10A	<b>Dilution Factor:</b>	1.71
<b>Date/Time Collected:</b>	12/5/19 01:34 PM	<b>Instrument/Filename:</b>	msd30.i / 30120918sim
<b>Media:</b>	6 Liter Summa Canister (EO)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	0.34	Not Detected
Ethylene Oxide	75-21-8	0.046	D	0.15	0.30

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
K&S Bard

<b>Client ID:</b>	GDC-W1 20191204 Lab Duplicate	<b>Date/Time Analyzed:</b>	12/10/19 12:07 AM
<b>Lab ID:</b>	1912125-10AA	<b>Dilution Factor:</b>	1.71
<b>Date/Time Collected:</b>	12/5/19 01:34 PM	<b>Instrument/Filename:</b>	msd30.i / 30120919sim
<b>Media:</b>	6 Liter Summa Canister (EO)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	0.34	Not Detected
Ethylene Oxide	75-21-8	0.046	D	0.15	0.31

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
K&S Bard

<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	12/9/19 03:45 PM
<b>Lab ID:</b>	1912125-11A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd30.i / 30120910sim
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,5-Dimethylfuran	625-86-5	NA	D	0.20	Not Detected
Ethylene Oxide	75-21-8	0.027	D	0.090	Not Detected

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
K&S Bard

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	12/9/19 11:07 AM
<b>Lab ID:</b>	1912125-12A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd30.i / 30120904sim
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
2,5-Dimethylfuran	625-86-5	86
Ethylene Oxide	75-21-8	83

D: Analyte not within the DoD scope of accreditation.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
K&S Bard

<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	12/9/19 01:18 PM
<b>Lab ID:</b>	1912125-13A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd30.i / 30120907sim
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
2,5-Dimethylfuran	625-86-5	Not Spiked
Ethylene Oxide	75-21-8	95

D: Analyte not within the DoD scope of accreditation.

\* % Recovery is calculated using unrounded analytical results.



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM  
K&S Bard

<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	12/9/19 01:59 PM
<b>Lab ID:</b>	1912125-13AA	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd30.i / 30120908sim
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
2,5-Dimethylfuran	625-86-5	Not Spiked
Ethylene Oxide	75-21-8	93

D: Analyte not within the DoD scope of accreditation.

\* % Recovery is calculated using unrounded analytical results.

**APPENDIX 4**  
**CHAIN OF CUSTODY**



## Air Toxicity

**180 Blue Ravine Rd. Suite B, Folsom, CA 95630**  
**Phone (800) 985-5955; Fax (916) 351-8279**

P10

For Laboratory Use Only

**Workorder #**

1912125

**Click links below to view:**

#### **Canister Sampling Guide**

[Helium Shroud Video](#)

## **APPENDIX 5**

### **METEOROLOGICAL DATA**

---

### ≡ Covington, GA Menu

---

[Home](https://www.localconditions.com) (<https://www.localconditions.com>) / Local Weather & Traffic (<https://www.localconditions.com/local-weather.php>) / Georgia (<https://www.localconditions.com/us/weather/georgia/>) / Covington (<https://www.localconditions.com/weather-covington-georgia/30014/>) / Past Weather

## Covington, GA Past Weather

### Last 30 Days

▶ [Tue, Dec 3rd 2019](#)

▶ [Mon, Dec 2nd 2019](#)

▶ [Sun, Dec 1st 2019](#)

▶ [Sat, Nov 30th 2019](#)

▶ [Fri, Nov 29th 2019](#)

▶ [Thu, Nov 28th 2019](#)

▶ [Wed, Nov 27th 2019](#)

▶ [Tue, Nov 26th 2019](#)

▶ [Mon, Nov 25th 2019](#)

▶ [Sun, Nov 24th 2019](#)

▶ [Sat, Nov 23rd 2019](#)

▶ [Fri, Nov 22nd 2019](#)

▼ [Thu, Nov 21st 2019](#)

**High:** 66.2°f @2:55 PM   **Low:** 39.02°f @6:56 AM    **ⓘ Approx. Precipitation / Rain Total:** in.

Time (EST)	Temp. (°f)	Humidity (%)	Dew Point (°f)	Barometer (inHG)	Wind Speed (mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>11:56 PM</b>	46.94	89.65	44.06	30.17	-	-	-	-	-
<b>11:55 PM</b>	46.4	93.4	44.6	30.17	-	-	-	-	-
<b>11:50 PM</b>	46.4	93.4	44.6	30.17	-	-	-	-	-
<b>11:45 PM</b>	46.4	93.4	44.6	30.17	-	-	-	-	-

Time <b>11:15 PM</b>	Temp. 48.2	Humidity 87% RH	Dew Point (°F)	Barometer 30.16	Wind Speed (mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>11:10 PM</b>	46.4	93.4	44.6	30.17	-	-	-	-	-
<b>11:05 PM</b>	48.2	87.28	44.6	30.17	-	-	-	-	-
<b>11:00 PM</b>	48.2	87.28	44.6	30.17	-	-	-	-	-
<b>10:56 PM</b>	48.02	86.08	44.06	30.17	-	-	-	-	-
<b>10:55 PM</b>	48.2	87.28	44.6	30.17	-	-	-	-	-
<b>10:50 PM</b>	48.2	87.28	44.6	30.17	-	-	-	-	-
<b>10:45 PM</b>	48.2	87.28	44.6	30.18	-	-	-	-	-
<b>10:15 PM</b>	50	81.61	44.6	30.19	-	-	-	-	-
<b>10:10 PM</b>	50	81.61	44.6	30.19	-	-	-	-	-
<b>10:05 PM</b>	51.8	76.35	44.6	30.19	-	-	-	-	-
<b>10:00 PM</b>	51.8	76.35	44.6	30.19	-	-	-	-	-
<b>9:56 PM</b>	51.98	74.3	44.06	30.2	-	-	-	-	-
<b>9:55 PM</b>	51.8	76.35	44.6	30.2	-	-	-	-	-
<b>9:50 PM</b>	51.8	76.35	44.6	30.19	-	-	-	-	-
<b>9:45 PM</b>	53.6	71.47	44.6	30.2	-	-	-	-	-
<b>9:15 PM</b>	51.8	76.35	44.6	30.19	-	-	-	-	-
<b>9:10 PM</b>	51.8	76.35	44.6	30.19	-	-	-	-	-
<b>9:05 PM</b>	51.8	76.35	44.6	30.19	-	-	-	-	-
<b>9:00 PM</b>	51.8	76.35	44.6	30.2	-	-	-	-	-
<b>8:56 PM</b>	51.98	76.89	44.96	30.2	-	-	-	-	-
<b>8:55 PM</b>	51.8	76.35	44.6	30.2	-	-	-	-	-
<b>8:50 PM</b>	51.8	76.35	44.6	30.2	-	-	-	-	-
<b>8:45 PM</b>	53.6	71.47	44.6	30.2	-	-	-	-	-
<b>8:15 PM</b>	53.6	71.47	44.6	30.2	-	-	-	-	-
<b>8:10 PM</b>	53.6	71.47	44.6	30.2	-	-	-	-	-
<b>8:05 PM</b>	53.6	71.47	44.6	30.19	-	-	-	-	-
<b>8:00 PM</b>	53.6	71.47	44.6	30.19	-	-	-	-	-
<b>7:56 PM</b>	53.96	69.1	44.06	30.19	5	se	-	-	-
<b>7:55 PM</b>	53.6	71.47	44.6	30.19	6	se	-	-	-
<b>7:50 PM</b>	55.4	66.93	44.6	30.2	3	se	-	-	-
<b>7:45 PM</b>	55.4	62.48	42.8	30.21	-	-	-	-	-
<b>7:15 PM</b>	55.4	62.48	42.8	30.2	3	sw	-	-	-
<b>7:10 PM</b>	55.4	62.48	42.8	30.19	-	-	-	-	-
<b>7:05 PM</b>	55.4	62.48	42.8	30.19	-	-	-	-	-
<b>7:00 PM</b>	55.4	62.48	42.8	30.18	-	-	-	-	-
<b>6:56 PM</b>	57.02	59.33	42.98	30.18	4	s	-	-	-
<b>6:55 PM</b>	57.2	58.55	42.8	30.18	4	s	-	-	-

Time <del>6:50</del> <b>6:50 PM</b>	Temp. 59.2	Humidity 55%	Dew Point (°F)	Barometer 30.16	Wind Speed 4 mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>6:45 PM</b>	57.2	58.55	42.8	30.18	5	sse	-	-	-
<b>6:15 PM</b>	57.2	58.55	42.8	30.18	5	s	-	-	-
<b>6:10 PM</b>	57.2	58.55	42.8	30.18	5	s	-	-	-
<b>6:05 PM</b>	57.2	58.55	42.8	30.18	5	sse	-	-	-
<b>6:00 PM</b>	57.2	58.55	42.8	30.19	5	s	-	-	-
<b>5:56 PM</b>	59	53.39	42.08	30.18	4	sse	-	-	-
<b>5:55 PM</b>	59	54.89	42.8	30.18	5	sse	-	-	-
<b>5:50 PM</b>	59	51.21	41	30.18	5	sse	-	-	-
<b>5:45 PM</b>	59	51.21	41	30.19	5	sse	-	-	-
<b>5:15 PM</b>	60.8	44.78	39.2	30.2	4	s	-	-	-
<b>5:10 PM</b>	60.8	44.78	39.2	30.19	3	sse	-	-	-
<b>5:05 PM</b>	60.8	44.78	39.2	30.2	4	s	-	-	-
<b>5:00 PM</b>	60.8	44.78	39.2	30.2	4	s	-	-	-
<b>4:56 PM</b>	60.98	45.77	39.92	30.2	4	s	-	-	-
<b>4:55 PM</b>	60.8	44.78	39.2	30.2	4	s	-	-	-
<b>4:50 PM</b>	60.8	44.78	39.2	30.19	5	s	-	-	-
<b>4:45 PM</b>	62.6	42.03	39.2	30.2	6	ssw	-	-	-
<b>4:15 PM</b>	62.6	42.03	39.2	30.2	6	s	-	-	-
<b>4:10 PM</b>	62.6	42.03	39.2	30.2	7	s	-	-	-
<b>4:05 PM</b>	62.6	42.03	39.2	30.2	7	ssw	-	-	-
<b>4:00 PM</b>	62.6	42.03	39.2	30.2	7	s	-	-	-
<b>3:56 PM</b>	62.96	41.21	39.02	30.19	4	s	-	-	-
<b>3:55 PM</b>	62.6	42.03	39.2	30.19	4	s	-	-	-
<b>3:50 PM</b>	64.4	39.46	39.2	30.19	5	s	-	-	-
<b>3:45 PM</b>	64.4	39.46	39.2	30.19	7	s	-	-	-
<b>3:15 PM</b>	64.4	39.46	39.2	30.2	4	ssw	-	-	-
<b>3:10 PM</b>	66.2	37.07	39.2	30.2	7	s	-	-	-
<b>3:05 PM</b>	66.2	37.07	39.2	30.2	7	sse	-	-	-
<b>3:00 PM</b>	66.2	34.54	37.4	30.2	6	s	-	-	-
<b>2:56 PM</b>	66.02	34.27	37.04	30.2	-	-	-	-	-
<b>2:55 PM</b>	66.2	34.54	37.4	30.2	3	sw	-	-	-
<b>2:50 PM</b>	66.2	34.54	37.4	30.2	4	sw	-	-	-
<b>2:45 PM</b>	66.2	34.54	37.4	30.2	6	ssw	-	-	-
<b>2:15 PM</b>	66.2	37.07	39.2	30.2	8	s	-	-	-
<b>2:10 PM</b>	64.4	39.46	39.2	30.2	4	sw	-	-	-
<b>2:05 PM</b>	64.4	39.46	39.2	30.2	4	s	-	-	-
<b>2:00 PM</b>	64.4	39.46	39.2	30.2	3	sse	-	-	-

Time <b>1:55PM</b>	Temp. 64.4	Humidity 83%	Dew Point (°F)	Barometer 30.25	Wind Speed 5mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>1:10 PM</b>	64.4	39.46	39.2	30.22	7	sse	-	-	-
<b>1:05 PM</b>	64.4	39.46	39.2	30.22	8	sse	-	-	-
<b>1:00 PM</b>	64.4	39.46	39.2	30.23	7	s	-	-	-
<b>12:56 PM</b>	62.96	41.21	39.02	30.23	5	-	-	-	-
<b>12:55 PM</b>	64.4	39.46	39.2	30.23	5	ssw	-	-	-
<b>12:50 PM</b>	64.4	39.46	39.2	30.23	7	s	-	-	-
<b>12:45 PM</b>	62.6	42.03	39.2	30.24	6	se	-	-	-
<b>12:15 PM</b>	62.6	42.03	39.2	30.25	6	ssw	-	-	-
<b>12:10 PM</b>	62.6	42.03	39.2	30.26	10	s	-	-	-
<b>12:05 PM</b>	62.6	42.03	39.2	30.26	6	s	-	-	-
<b>12:00 PM</b>	60.8	44.78	39.2	30.26	7	sse	-	-	-
<b>11:56 AM</b>	60.98	45.77	39.92	30.26	4	sse	-	-	-
<b>11:55 AM</b>	62.6	42.03	39.2	30.26	5	sse	-	-	-
<b>11:50 AM</b>	60.8	44.78	39.2	30.27	6	sse	-	-	-
<b>11:45 AM</b>	60.8	44.78	39.2	30.27	6	se	-	-	-
<b>11:15 AM</b>	60.8	48.03	41	30.29	5	ssw	-	-	-
<b>11:10 AM</b>	60.8	48.03	41	30.29	5	sw	-	-	-
<b>11:05 AM</b>	60.8	51.48	42.8	30.29	5	sse	-	-	-
<b>11:00 AM</b>	59	51.21	41	30.3	4	sse	-	-	-
<b>10:56 AM</b>	59	51.21	41	30.3	5	s	-	-	-
<b>10:55 AM</b>	59	54.89	42.8	30.3	5	s	-	-	-
<b>10:50 AM</b>	57.2	54.62	41	30.3	4	s	-	-	-
<b>10:45 AM</b>	59	54.89	42.8	30.3	4	s	-	-	-
<b>10:15 AM</b>	55.4	58.29	41	30.31	4	sse	-	-	-
<b>10:10 AM</b>	55.4	58.29	41	30.31	4	s	-	-	-
<b>10:05 AM</b>	55.4	58.29	41	30.31	5	s	-	-	-
<b>10:00 AM</b>	55.4	58.29	41	30.31	4	s	-	-	-
<b>9:56 AM</b>	55.04	61.57	42.08	30.31	-	-	-	-	-
<b>9:55 AM</b>	55.4	62.48	42.8	30.31	-	-	-	-	-
<b>9:50 AM</b>	55.4	62.48	42.8	30.31	-	-	-	-	-
<b>9:45 AM</b>	55.4	62.48	42.8	30.31	3	e	-	-	-
<b>9:15 AM</b>	51.8	71.27	42.8	30.3	3	ne	-	-	-
<b>9:10 AM</b>	51.8	71.27	42.8	30.31	-	-	-	-	-
<b>9:05 AM</b>	51.8	71.27	42.8	30.3	-	-	-	-	-
<b>9:00 AM</b>	50	76.18	42.8	30.3	3	e	-	-	-
<b>8:56 AM</b>	50	76.71	42.98	30.3	-	-	-	-	-
<b>8:55 AM</b>	48.2	81.48	42.8	30.3	3	ene	-	-	-

Time <b>8:50 AM</b>	Temp. 48.2	Humidity 86%	Dew Point (°F)	Barometer 30.3G	Wind Speed (mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>8:45 AM</b>	48.2	81.48	42.8	30.3	-	-	-	-	-
<b>8:15 AM</b>	44.6	87.09	41	30.3	-	-	-	-	-
<b>8:10 AM</b>	44.6	87.09	41	30.3	-	-	-	-	-
<b>8:05 AM</b>	42.8	93.3	41	30.3	-	-	-	-	-
<b>8:00 AM</b>	42.8	93.3	41	30.3	-	-	-	-	-
<b>7:56 AM</b>	41	100	41	30.3	-	-	-	-	-
<b>7:55 AM</b>	41	93.24	39.2	30.3	-	-	-	-	-
<b>7:50 AM</b>	41	93.24	39.2	30.3	-	-	-	-	-
<b>7:45 AM</b>	41	93.24	39.2	30.3	-	-	-	-	-
<b>7:15 AM</b>	39.2	100	39.2	30.29	-	-	-	-	-
<b>7:10 AM</b>	39.2	100	39.2	30.29	-	-	-	-	-
<b>7:05 AM</b>	39.2	100	39.2	30.3	-	-	-	-	-
<b>7:00 AM</b>	39.2	100	39.2	30.29	-	-	-	-	-
<b>6:56 AM</b>	39.02	95.86	37.94	30.29	-	-	-	-	-
<b>6:55 AM</b>	39.2	100	39.2	30.29	-	-	-	-	-
<b>6:50 AM</b>	41	93.24	39.2	30.29	-	-	-	-	-
<b>6:45 AM</b>	41	93.24	39.2	30.29	-	-	-	-	-
<b>6:15 AM</b>	39.2	100	39.2	30.27	-	-	-	-	-
<b>6:10 AM</b>	39.2	100	39.2	30.27	-	-	-	-	-
<b>6:05 AM</b>	39.2	100	39.2	30.26	-	-	-	-	-
<b>6:00 AM</b>	39.2	100	39.2	30.27	-	-	-	-	-
<b>5:15 AM</b>	39.2	100	39.2	30.27	3	nne	-	-	-
<b>5:10 AM</b>	39.2	100	39.2	30.26	-	-	-	-	-
<b>5:05 AM</b>	39.2	100	39.2	30.26	-	-	-	-	-
<b>5:00 AM</b>	39.2	100	39.2	30.26	-	-	-	-	-
<b>4:15 AM</b>	39.2	100	39.2	30.25	-	-	-	-	-
<b>4:10 AM</b>	39.2	100	39.2	30.25	-	-	-	-	-
<b>4:05 AM</b>	39.2	100	39.2	30.25	-	-	-	-	-
<b>4:00 AM</b>	39.2	100	39.2	30.25	-	-	-	-	-
<b>3:56 AM</b>	39.02	100	39.02	30.25	-	-	-	-	-
<b>3:55 AM</b>	39.2	100	39.2	30.25	-	-	-	-	-
<b>3:50 AM</b>	39.2	100	39.2	30.25	-	-	-	-	-
<b>3:45 AM</b>	39.2	100	39.2	30.25	-	-	-	-	-
<b>3:15 AM</b>	39.2	100	39.2	30.26	-	-	-	-	-
<b>3:10 AM</b>	39.2	100	39.2	30.26	-	-	-	-	-
<b>3:05 AM</b>	39.2	100	39.2	30.26	-	-	-	-	-
<b>3:00 AM</b>	39.2	100	39.2	30.26	-	-	-	-	-

Time 2:05 AM	Temp. 41	Humidity 93%	Dew Point (°F)	Barometer 30.26	Wind Speed (mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>2:10 AM</b>	41	93.24	39.2	30.25	-	-	-	-	-
<b>2:05 AM</b>	41	93.24	39.2	30.25	-	-	-	-	-
<b>2:00 AM</b>	41	93.24	39.2	30.24	-	-	-	-	-
<b>1:56 AM</b>	41	95.89	39.92	30.25	-	-	-	-	-
<b>1:55 AM</b>	41	93.24	39.2	30.25	-	-	-	-	-
<b>1:50 AM</b>	41	93.24	39.2	30.25	-	-	-	-	-
<b>1:45 AM</b>	41	100	41	30.25	-	-	-	-	-
<b>1:15 AM</b>	41	100	41	30.23	-	-	-	-	-
<b>1:10 AM</b>	41	93.24	39.2	30.23	-	-	-	-	-
<b>1:05 AM</b>	39.2	100	39.2	30.23	-	-	-	-	-
<b>1:00 AM</b>	39.2	100	39.2	30.23	-	-	-	-	-
<b>12:56 AM</b>	41	95.89	39.92	30.23	-	-	-	-	-
<b>12:55 AM</b>	41	93.24	39.2	30.23	-	-	-	-	-
<b>12:50 AM</b>	41	93.24	39.2	30.22	-	-	-	-	-
<b>12:45 AM</b>	41	93.24	39.2	30.23	-	-	-	-	-
<b>12:10 AM</b>	42.8	93.3	41	30.23	-	-	-	-	-
<b>12:05 AM</b>	42.8	93.3	41	30.23	-	-	-	-	-
<b>12:00 AM</b>	42.8	93.3	41	30.24	-	-	-	-	-

**► Wed, Nov 20th 2019****► Tue, Nov 19th 2019****► Mon, Nov 18th 2019****► Sun, Nov 17th 2019****► Sat, Nov 16th 2019****► Fri, Nov 15th 2019****► Thu, Nov 14th 2019****► Wed, Nov 13th 2019****► Tue, Nov 12th 2019****► Mon, Nov 11th 2019****► Sun, Nov 10th 2019****► Sat, Nov 9th 2019****► Fri, Nov 8th 2019**

Past Weather Disclaimer

Note regarding "Approx. Precipitation / Rain Total"

---

### ≡ Covington, GA Menu

---

[Home](https://www.localconditions.com) (<https://www.localconditions.com>) / Local Weather & Traffic (<https://www.localconditions.com/local-weather.php>) / Georgia (<https://www.localconditions.com/us/weather/georgia/>) / Covington (<https://www.localconditions.com/weather-covington-georgia/30014/>) / Past Weather

## Covington, GA Past Weather

### Last 30 Days

▶ [Tue, Dec 3rd 2019](#)

▶ [Mon, Dec 2nd 2019](#)

▶ [Sun, Dec 1st 2019](#)

▶ [Sat, Nov 30th 2019](#)

▶ [Fri, Nov 29th 2019](#)

▶ [Thu, Nov 28th 2019](#)

▶ [Wed, Nov 27th 2019](#)

▶ [Tue, Nov 26th 2019](#)

▶ [Mon, Nov 25th 2019](#)

▶ [Sun, Nov 24th 2019](#)

▶ [Sat, Nov 23rd 2019](#)

▼ [Fri, Nov 22nd 2019](#)

**High:** 66.2°f @2:53 PM   **Low:** 42.8°f @5:50 AM   **❶ Approx. Precipitation / Rain Total:** 0.006 in.

Time (EST)	Temp. (°f)	Humidity (%)	Dew Point (°f)	Barometer (inHG)	Wind Speed (mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>11:56 PM</b>	57.92	100	57.92	30	-	-	-	0.001	-
<b>11:55 PM</b>	59	100	59	30	-	-	-	-	-
<b>11:50 PM</b>	59	100	59	30	-	-	-	-	-
<b>11:45 PM</b>	59	100	59	30	-	-	-	-	-
<b>11:15 PM</b>	59	100	59	30.01	3	wsW	-	-	-

Time <b>11:50 PM</b>	Temp. 59°f)	Humidity 100%	Dew Point (°f)	Barometer 30.02	Wind Speed 3mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>11:05 PM</b>	59	100	59	30.02	3	sw	-	-	-
<b>11:00 PM</b>	59	100	59	30.02	3	WSW	-	-	-
<b>10:56 PM</b>	59	100	59	30.02	3	sw	-	0.001	-
<b>10:55 PM</b>	59	100	59	30.02	-	-	-	-	-
<b>10:50 PM</b>	59	100	59	30.02	3	sw	-	-	-
<b>10:45 PM</b>	59	100	59	30.02	3	sw	-	-	-
<b>10:15 PM</b>	60.8	93.8	59	30.02	5	sw	-	-	-
<b>10:10 PM</b>	60.8	93.8	59	30.02	5	WSW	-	-	-
<b>10:05 PM</b>	60.8	93.8	59	30.03	4	sw	-	-	-
<b>10:00 PM</b>	60.8	93.8	59	30.02	5	sw	-	-	-
<b>9:56 PM</b>	60.08	92.58	57.92	30.02	5	sw	-	-	-
<b>9:55 PM</b>	60.8	87.94	57.2	30.02	5	sw	-	-	-
<b>9:50 PM</b>	60.8	87.94	57.2	30.02	4	WSW	-	-	-
<b>9:45 PM</b>	60.8	87.94	57.2	30.03	5	sw	-	-	-
<b>9:15 PM</b>	59	93.75	57.2	30.02	4	WSW	-	-	-
<b>9:10 PM</b>	60.8	87.94	57.2	30.02	4	sw	-	-	-
<b>9:05 PM</b>	60.8	87.94	57.2	30.02	4	sw	-	-	-
<b>9:00 PM</b>	60.8	87.94	57.2	30.02	4	sw	-	-	-
<b>8:56 PM</b>	60.08	92.58	57.92	30.02	4	WSW	-	-	-
<b>8:55 PM</b>	60.8	87.94	57.2	30.02	4	WSW	-	-	-
<b>8:50 PM</b>	60.8	87.94	57.2	30.02	3	WSW	-	-	-
<b>8:45 PM</b>	60.8	87.94	57.2	30.02	4	WSW	-	-	-
<b>8:10 PM</b>	60.8	87.94	57.2	30.02	-	-	-	-	-
<b>8:05 PM</b>	59	93.75	57.2	30.02	-	-	-	-	-
<b>8:00 PM</b>	59	93.75	57.2	30.02	-	-	-	-	-
<b>7:56 PM</b>	59	96.21	57.92	30.02	-	-	-	0.001	-
<b>7:55 PM</b>	59	93.75	57.2	30.02	-	-	-	-	-
<b>7:50 PM</b>	60.8	87.94	57.2	30.02	-	-	-	-	-
<b>7:45 PM</b>	59	93.75	57.2	30.03	-	-	-	-	-
<b>6:56 PM</b>	60.08	92.58	57.92	30.02	-	-	-	0.001	-
<b>6:55 PM</b>	60.8	87.94	57.2	30.02	-	-	-	-	-
<b>6:53 PM</b>	60.8	87.94	57.2	30.02	-	-	-	0.001	-
<b>6:50 PM</b>	60.8	87.94	57.2	30.02	-	-	-	-	-
<b>6:45 PM</b>	60.8	87.94	57.2	30.02	-	-	-	-	-
<b>6:15 PM</b>	60.8	87.94	57.2	30.02	-	-	-	-	-
<b>6:10 PM</b>	60.8	87.94	57.2	30.03	-	-	-	-	-
<b>6:05 PM</b>	60.8	87.94	57.2	30.02	-	-	-	-	-

Time <del>6:00PM</del>	Temp. 60.8	Humidity 87%	Dew Point (°F)	Barometer 30.045	Wind Speed (mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>5:56 PM</b>	60.08	89.63	57.02	30.02	-	-	-	0.001	-
<b>5:55 PM</b>	60.8	87.94	57.2	30.02	-	-	-	-	-
<b>5:50 PM</b>	60.8	87.94	57.2	30.01	-	-	-	-	-
<b>5:45 PM</b>	60.8	87.94	57.2	30.01	3	SSW	-	-	-
<b>5:15 PM</b>	62.6	77.33	55.4	30.01	6	SW	-	-	-
<b>5:10 PM</b>	62.6	77.33	55.4	30.01	6	SSW	-	-	-
<b>5:05 PM</b>	62.6	77.33	55.4	30.01	7	S	-	-	-
<b>5:00 PM</b>	64.4	72.6	55.4	30.01	6	SSW	-	-	-
<b>4:56 PM</b>	64.04	72.57	55.04	30.01	6	SSW	-	-	-
<b>4:55 PM</b>	64.4	72.6	55.4	30.01	6	SSW	-	-	-
<b>4:50 PM</b>	64.4	72.6	55.4	30.01	7	SSW	-	-	-
<b>4:45 PM</b>	64.4	72.6	55.4	30.01	7	SSW	-	-	-
<b>4:15 PM</b>	64.4	72.6	55.4	30.02	7	SSW	-	-	-
<b>4:10 PM</b>	64.4	72.6	55.4	30.02	7	SSW	-	-	-
<b>4:05 PM</b>	64.4	72.6	55.4	30.02	7	SSW	-	-	-
<b>4:00 PM</b>	64.4	72.6	55.4	30.02	7	SSW	-	-	-
<b>3:56 PM</b>	64.94	70.32	55.04	30.02	8	SSW	-	-	-
<b>3:55 PM</b>	64.4	72.6	55.4	30.02	8	SSW	-	-	-
<b>3:50 PM</b>	64.4	72.6	55.4	30.02	8	SW	-	-	-
<b>3:45 PM</b>	66.2	68.2	55.4	30.01	9	WSW	-	-	-
<b>3:15 PM</b>	66.2	68.2	55.4	30.02	11	SW	-	-	-
<b>3:10 PM</b>	66.2	68.2	55.4	30.02	8	SW	-	-	-
<b>3:05 PM</b>	66.2	68.2	55.4	30.02	9	SW	-	-	-
<b>3:00 PM</b>	66.2	68.2	55.4	30.02	7	WSW	-	-	-
<b>2:56 PM</b>	66.02	67.74	55.04	30.02	7	WSW	-	-	-
<b>2:55 PM</b>	66.2	68.2	55.4	30.02	7	W	-	-	-
<b>2:53 PM</b>	66.2	68.2	55.4	30.02	6	W	-	-	-
<b>2:50 PM</b>	66.2	68.2	55.4	30.02	8	WSW	-	-	-
<b>2:45 PM</b>	66.2	68.2	55.4	30.02	8	WSW	-	-	-
<b>2:10 PM</b>	66.2	63.87	53.6	30.03	4	WSW	-	-	-
<b>2:05 PM</b>	66.2	59.79	51.8	30.03	6	SSW	-	-	-
<b>2:00 PM</b>	64.4	63.64	51.8	30.03	6	SW	-	-	-
<b>1:15 PM</b>	64.4	63.64	51.8	30.04	4	SW	-	-	-
<b>1:10 PM</b>	64.4	63.64	51.8	30.04	5	WSW	-	-	-
<b>1:05 PM</b>	64.4	63.64	51.8	30.05	7	SW	-	-	-
<b>1:00 PM</b>	64.4	63.64	51.8	30.05	6	WSW	-	-	-
<b>12:56 PM</b>	64.04	62.76	51.08	30.05	5	W	-	-	-

Time <b>12:55 PM</b>	Temp. 60° F	Humidity 63% 54	Dew Point (°F)	Barometer 30.046	Wind Speed 4 mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>12:50 PM</b>	64.4	63.64	51.8	30.06	4	WSW	-	-	-
<b>12:45 PM</b>	64.4	63.64	51.8	30.05	4	WSW	-	-	-
<b>12:15 PM</b>	62.6	67.79	51.8	30.07	4	WSW	-	-	-
<b>12:10 PM</b>	62.6	63.42	50	30.08	5	SW	-	-	-
<b>12:05 PM</b>	60.8	67.57	50	30.08	4	WSW	-	-	-
<b>12:00 PM</b>	60.8	67.57	50	30.09	5	W	-	-	-
<b>11:56 AM</b>	60.98	67.15	50	30.09	5	WSW	-	-	-
<b>11:55 AM</b>	60.8	67.57	50	30.09	5	WSW	-	-	-
<b>11:50 AM</b>	60.8	67.57	50	30.09	6	WSW	-	-	-
<b>11:45 AM</b>	60.8	67.57	50	30.1	5	WSW	-	-	-
<b>11:15 AM</b>	60.8	63.18	48.2	30.1	5	WSW	-	-	-
<b>11:10 AM</b>	60.8	63.18	48.2	30.1	7	SW	-	-	-
<b>11:05 AM</b>	60.8	63.18	48.2	30.1	7	SW	-	-	-
<b>11:00 AM</b>	59	67.36	48.2	30.11	7	SW	-	-	-
<b>10:56 AM</b>	57.92	71.93	48.92	30.11	7	SW	-	0.001	-
<b>10:55 AM</b>	57.2	71.85	48.2	30.11	7	WSW	-	-	-
<b>10:50 AM</b>	57.2	71.85	48.2	30.11	7	WSW	-	-	-
<b>10:45 AM</b>	57.2	71.85	48.2	30.12	6	WSW	-	-	-
<b>10:15 AM</b>	57.2	71.85	48.2	30.12	7	SW	-	-	-
<b>10:10 AM</b>	57.2	67.15	46.4	30.12	6	SSW	-	-	-
<b>10:05 AM</b>	55.4	71.66	46.4	30.11	6	SSW	-	-	-
<b>10:00 AM</b>	57.2	67.15	46.4	30.12	5	WSW	-	-	-
<b>9:56 AM</b>	57.02	68.98	46.94	30.11	5	WSW	-	-	-
<b>9:55 AM</b>	57.2	67.15	46.4	30.11	5	WSW	-	-	-
<b>9:50 AM</b>	55.4	71.66	46.4	30.12	5	SW	-	-	-
<b>9:45 AM</b>	55.4	71.66	46.4	30.12	5	SW	-	-	-
<b>9:10 AM</b>	51.8	81.75	46.4	30.13	4	W	-	-	-
<b>9:05 AM</b>	51.8	81.75	46.4	30.11	3	S	-	-	-
<b>9:00 AM</b>	51.8	81.75	46.4	30.13	-	-	-	-	-
<b>8:56 AM</b>	51.98	80.11	46.04	30.12	3	W	-	0.001	-
<b>8:55 AM</b>	51.8	81.75	46.4	30.12	4	W	-	-	-
<b>8:50 AM</b>	51.8	81.75	46.4	30.12	3	W	-	-	-
<b>8:45 AM</b>	51.8	81.75	46.4	30.1	3	SSE	-	-	-
<b>8:15 AM</b>	51.8	76.35	44.6	30.13	5	WNW	-	-	-
<b>8:10 AM</b>	50	81.61	44.6	30.11	3	W	-	-	-
<b>8:05 AM</b>	50	81.61	44.6	30.11	4	WSW	-	-	-
<b>8:00 AM</b>	51.8	76.35	44.6	30.11	4	SSW	-	-	-

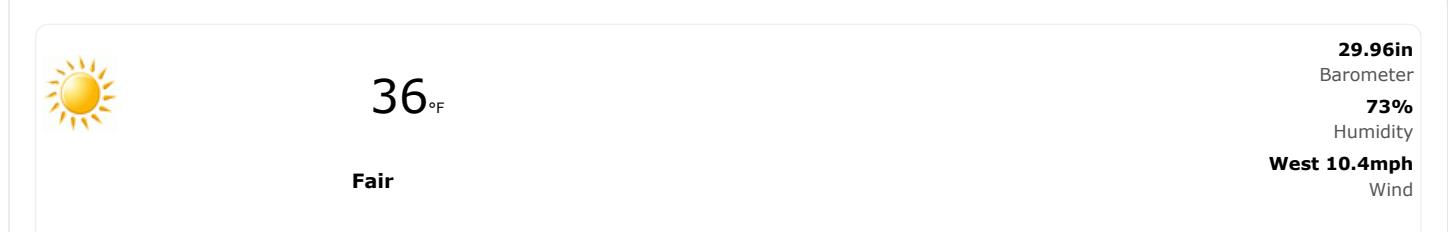
Time <del>7:55</del> AM	Temp. 59.08	Humidity 76%	Dew Point (°F) 44.6	Barometer 30.16	Wind Speed 0 mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>7:55 AM</b>	51.8	76.35	44.6	30.12	3	w	-	-	-
<b>7:50 AM</b>	50	81.61	44.6	30.11	4	w	-	-	-
<b>7:45 AM</b>	50	81.61	44.6	30.12	5	wws	-	-	-
<b>7:10 AM</b>	48.2	87.28	44.6	30.11	4	w	-	-	-
<b>7:05 AM</b>	48.2	87.28	44.6	30.09	3	sse	-	-	-
<b>7:00 AM</b>	48.2	87.28	44.6	30.1	3	ssw	-	-	-
<b>6:56 AM</b>	48.02	86.08	44.06	30.11	3	-	-	-	-
<b>6:55 AM</b>	48.2	87.28	44.6	30.11	3	wnw	-	-	-
<b>6:50 AM</b>	48.2	87.28	44.6	30.11	3	nw	-	-	-
<b>6:45 AM</b>	48.2	87.28	44.6	30.1	6	sw	-	-	-
<b>6:15 AM</b>	42.8	100	42.8	30.11	-	-	-	-	-
<b>6:10 AM</b>	42.8	100	42.8	30.11	-	-	-	-	-
<b>6:05 AM</b>	42.8	100	42.8	30.11	-	-	-	-	-
<b>6:00 AM</b>	42.8	100	42.8	30.11	-	-	-	-	-
<b>5:56 AM</b>	42.98	100	42.98	30.12	-	-	-	-	-
<b>5:55 AM</b>	42.8	100	42.8	30.12	-	-	-	-	-
<b>5:50 AM</b>	42.8	100	42.8	30.12	-	-	-	-	-
<b>5:45 AM</b>	42.8	100	42.8	30.12	-	-	-	-	-
<b>4:10 AM</b>	44.6	100	44.6	30.12	-	-	-	-	-
<b>4:05 AM</b>	44.6	100	44.6	30.11	-	-	-	-	-
<b>4:00 AM</b>	44.6	100	44.6	30.11	-	-	-	-	-
<b>3:56 AM</b>	46.04	95.99	44.96	30.11	-	-	-	-	-
<b>3:55 AM</b>	46.4	93.4	44.6	30.11	-	-	-	-	-
<b>3:50 AM</b>	46.4	93.4	44.6	30.11	-	-	-	-	-
<b>3:45 AM</b>	46.4	93.4	44.6	30.11	-	-	-	-	-
<b>3:10 AM</b>	46.4	93.4	44.6	30.13	-	-	-	-	-
<b>3:05 AM</b>	46.4	93.4	44.6	30.13	-	-	-	-	-
<b>3:00 AM</b>	46.4	93.4	44.6	30.13	-	-	-	-	-
<b>2:56 AM</b>	46.94	92.78	44.96	30.13	-	-	-	-	-
<b>2:55 AM</b>	46.4	93.4	44.6	30.13	-	-	-	-	-
<b>2:50 AM</b>	46.4	93.4	44.6	30.13	-	-	-	-	-
<b>2:45 AM</b>	46.4	93.4	44.6	30.13	-	-	-	-	-
<b>2:10 AM</b>	46.4	93.4	44.6	30.14	-	-	-	-	-
<b>2:05 AM</b>	46.4	93.4	44.6	30.14	-	-	-	-	-
<b>2:00 AM</b>	46.4	93.4	44.6	30.14	-	-	-	-	-
<b>1:56 AM</b>	46.94	92.78	44.96	30.15	-	-	-	-	-
<b>1:55 AM</b>	46.4	93.4	44.6	30.15	-	-	-	-	-

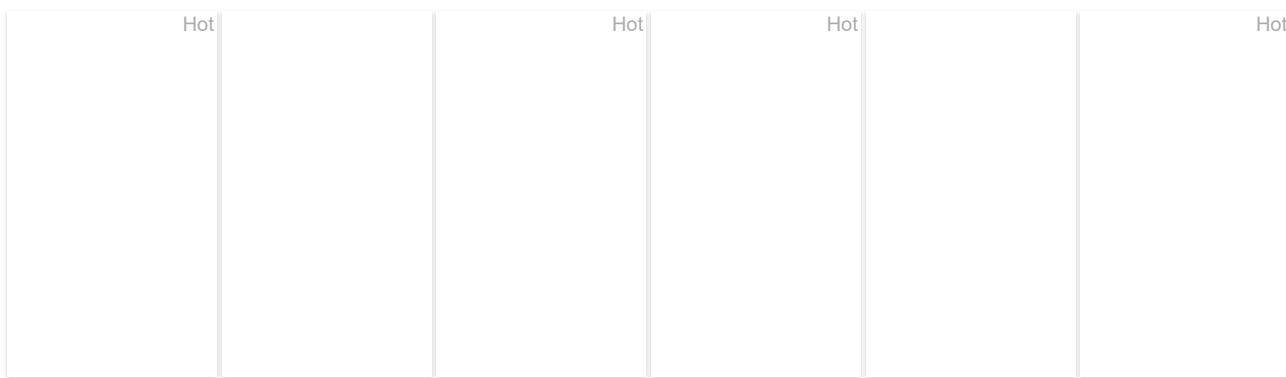
Time <b>11:50 AM</b>	Temp. <b>46.4</b>	Humidity <b>93%</b>	Dew Point <b>(°F)</b>	Barometer <b>30.16</b>	Wind Speed (mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>1:45 AM</b>	46.4	93.4	44.6	30.14	-	-	-	-	-
<b>1:10 AM</b>	46.4	93.4	44.6	30.14	-	-	-	-	-
<b>1:05 AM</b>	46.4	93.4	44.6	30.14	-	-	-	-	-
<b>1:00 AM</b>	46.4	93.4	44.6	30.15	-	-	-	-	-
<b>12:56 AM</b>	48.02	86.08	44.06	30.15	-	-	-	-	-
<b>12:55 AM</b>	48.2	87.28	44.6	30.15	-	-	-	-	-
<b>12:50 AM</b>	46.4	93.4	44.6	30.15	-	-	-	-	-
<b>12:45 AM</b>	46.4	93.4	44.6	30.15	-	-	-	-	-
<b>12:10 AM</b>	46.4	93.4	44.6	30.16	-	-	-	-	-
<b>12:05 AM</b>	46.4	93.4	44.6	30.17	-	-	-	-	-
<b>12:00 AM</b>	46.4	93.4	44.6	30.17	-	-	-	-	-

**Thu, Nov 21st 2019****Wed, Nov 20th 2019****Tue, Nov 19th 2019****Mon, Nov 18th 2019****Sun, Nov 17th 2019****Sat, Nov 16th 2019****Fri, Nov 15th 2019****Thu, Nov 14th 2019****Wed, Nov 13th 2019****Tue, Nov 12th 2019****Mon, Nov 11th 2019****Sun, Nov 10th 2019****Sat, Nov 9th 2019****Fri, Nov 8th 2019**

Past Weather Disclaimer

Note regarding "Approx. Precipitation / Rain Total"

**Currently**



### ≡ Covington, GA Menu

[Home](#) (<https://www.localconditions.com>) / [Local Weather & Traffic](#) (<https://www.localconditions.com/local-weather.php>) / [Georgia](#) (<https://www.localconditions.com/us/weather/georgia/>) / [Covington](#) (<https://www.localconditions.com/weather-covington-georgia/30014/>) / [Past Weather](#)

## Covington, GA Past Weather

### Last 30 Days

▶ [Tue, Dec 10th 2019](#)

▶ [Mon, Dec 9th 2019](#)

▶ [Sun, Dec 8th 2019](#)

▶ [Sat, Dec 7th 2019](#)

▶ [Fri, Dec 6th 2019](#)

▶ [Thu, Dec 5th 2019](#)

▼ [Wed, Dec 4th 2019](#)

**High:** 57.92°f @1:56 PM    **Low:** 33.8°f @6:05 AM    **❶ Approx. Precipitation / Rain Total:** in.

Time (EST)	Temp. (°f)	Humidity (%)	Dew Point (°f)	Barometer (inHG)	Wind Speed (mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>11:56 PM</b>	48.02	58.06	33.98	29.97	4	w	-	-	-
<b>11:55 PM</b>	48.2	57.25	33.8	29.97	5	w	-	-	-
<b>11:50 PM</b>	48.2	57.25	33.8	29.97	6	w	-	-	-
<b>11:45 PM</b>	48.2	57.25	33.8	29.96	6	w	-	-	-
<b>10:56 PM</b>	48.92	56.14	33.98	29.95	6	w	-	-	-
<b>10:55 PM</b>	48.2	57.25	33.8	29.95	6	w	-	-	-
<b>10:50 PM</b>	48.2	57.25	33.8	29.95	7	w	-	-	-
<b>10:45 PM</b>	48.2	57.25	33.8	29.95	7	w	-	-	-
<b>10:10 PM</b>	48.2	57.25	33.8	29.94	6	w	-	-	-
<b>10:05 PM</b>	48.2	57.25	33.8	29.94	6	w	-	-	-
<b>10:00 PM</b>	48.2	57.25	33.8	29.94	8	w	-	-	-

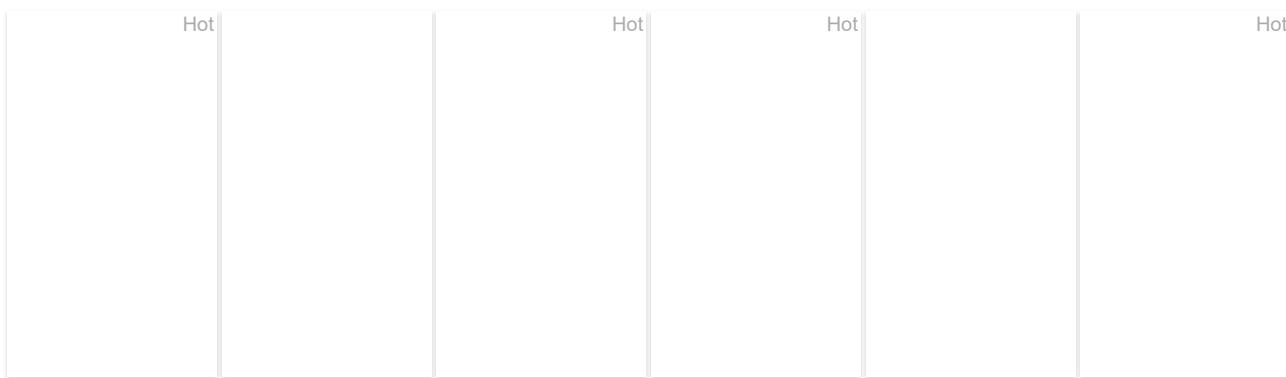
Time <b>9:56 PM</b>	Temp. 48.92	Humidity 51%	Dew Point (°F)	Barometer 29.96	Wind Speed 6 mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>9:55 PM</b>	48.2	57.25	33.8	29.94	6	w	-	-	-
<b>9:50 PM</b>	48.2	57.25	33.8	29.94	7	w	-	-	-
<b>9:45 PM</b>	48.2	57.25	33.8	29.94	6	w	-	-	-
<b>9:15 PM</b>	48.2	57.25	33.8	29.94	6	w	-	-	-
<b>9:10 PM</b>	48.2	57.25	33.8	29.94	7	w	-	-	-
<b>9:05 PM</b>	48.2	57.25	33.8	29.93	9	w	-	-	-
<b>9:00 PM</b>	48.2	57.25	33.8	29.94	6	w	-	-	-
<b>8:15 PM</b>	48.2	57.25	33.8	29.93	6	w	-	-	-
<b>8:10 PM</b>	48.2	57.25	33.8	29.93	6	w	-	-	-
<b>8:05 PM</b>	48.2	57.25	33.8	29.93	5	w	-	-	-
<b>8:00 PM</b>	48.2	57.25	33.8	29.93	5	w	-	-	-
<b>7:56 PM</b>	48.92	54.15	33.08	29.93	5	w	-	-	-
<b>7:55 PM</b>	48.2	57.25	33.8	29.92	6	w	-	-	-
<b>7:50 PM</b>	48.2	57.25	33.8	29.92	6	w	-	-	-
<b>7:45 PM</b>	48.2	57.25	33.8	29.92	6	w	-	-	-
<b>7:15 PM</b>	48.2	49.51	30.2	29.92	3	w	-	-	-
<b>7:10 PM</b>	50	46.29	30.2	29.92	3	w	-	-	-
<b>7:05 PM</b>	51.8	43.31	30.2	29.92	3	w	-	-	-
<b>7:00 PM</b>	51.8	43.31	30.2	29.92	4	w	-	-	-
<b>6:56 PM</b>	51.08	44.15	30.02	29.92	5	w	-	-	-
<b>6:55 PM</b>	51.8	43.31	30.2	29.92	5	w	-	-	-
<b>6:50 PM</b>	51.8	43.31	30.2	29.92	5	w	-	-	-
<b>6:45 PM</b>	51.8	43.31	30.2	29.92	5	w	-	-	-
<b>6:15 PM</b>	51.8	43.31	30.2	29.91	4	wnw	-	-	-
<b>6:10 PM</b>	53.6	40.54	30.2	29.91	4	wnw	-	-	-
<b>6:05 PM</b>	53.6	40.54	30.2	29.91	5	w	-	-	-
<b>6:00 PM</b>	53.6	40.54	30.2	29.9	4	w	-	-	-
<b>5:56 PM</b>	53.06	41.05	30.02	29.9	4	w	-	-	-
<b>5:55 PM</b>	53.6	40.54	30.2	29.9	4	w	-	-	-
<b>5:50 PM</b>	53.6	40.54	30.2	29.9	4	w	-	-	-
<b>5:45 PM</b>	53.6	40.54	30.2	29.89	5	w	-	-	-
<b>5:10 PM</b>	55.4	35.27	28.4	29.88	5	w	-	-	-
<b>5:05 PM</b>	55.4	35.27	28.4	29.88	8	w	-	-	-
<b>5:00 PM</b>	55.4	35.27	28.4	29.88	7	w	-	-	-
<b>4:56 PM</b>	55.94	35.36	28.94	29.88	10	w	15	-	-
<b>4:55 PM</b>	55.4	35.27	28.4	29.88	7	w	-	-	-
<b>4:50 PM</b>	55.4	35.27	28.4	29.88	6	w	-	-	-

Time <b>4:35PM</b>	Temp. 59.4	Humidity 83% <sup>27</sup>	Dew Point (°F)	Barometer 29.86	Wind Speed 6mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>4:00 PM</b>	57.2	35.58	30.2	29.86	6	w	-	-	-
<b>3:56 PM</b>	57.02	35.55	30.02	29.86	8	w	-	-	-
<b>3:55 PM</b>	57.2	35.58	30.2	29.86	9	w	-	-	-
<b>3:50 PM</b>	57.2	33.05	28.4	29.86	9	wnw	-	-	-
<b>3:45 PM</b>	57.2	35.58	30.2	29.86	9	w	16	-	-
<b>3:10 PM</b>	57.2	33.05	28.4	29.86	9	w	15	-	-
<b>3:05 PM</b>	57.2	33.05	28.4	29.86	12	w	19	-	-
<b>3:00 PM</b>	57.2	33.05	28.4	29.85	10	wnw	-	-	-
<b>2:10 PM</b>	57.2	35.58	30.2	29.85	7	w	-	-	-
<b>2:05 PM</b>	57.2	35.58	30.2	29.85	8	w	-	-	-
<b>2:00 PM</b>	57.2	33.05	28.4	29.85	5	wnw	-	-	-
<b>1:56 PM</b>	57.92	34.41	30.02	29.85	7	wnw	-	-	-
<b>1:55 PM</b>	57.2	35.58	30.2	29.85	4	w	-	-	-
<b>1:50 PM</b>	57.2	33.05	28.4	29.86	9	wnw	-	-	-
<b>1:45 PM</b>	57.2	33.05	28.4	29.86	8	wnw	-	-	-
<b>1:10 PM</b>	55.4	37.97	30.2	29.86	12	w	-	-	-
<b>1:05 PM</b>	55.4	40.84	32	29.86	10	w	-	-	-
<b>1:00 PM</b>	55.4	40.84	32	29.86	9	w	-	-	-
<b>12:56 PM</b>	55.04	41.38	32	29.86	13	w	19	-	-
<b>12:55 PM</b>	55.4	40.84	32	29.87	12	w	19	-	-
<b>12:50 PM</b>	55.4	40.84	32	29.86	8	w	-	-	-
<b>12:45 PM</b>	55.4	40.84	32	29.87	9	w	-	-	-
<b>12:10 PM</b>	53.6	43.61	32	29.88	8	w	-	-	-
<b>12:05 PM</b>	53.6	43.61	32	29.88	10	wnw	-	-	-
<b>12:00 PM</b>	53.6	40.54	30.2	29.89	8	w	-	-	-
<b>11:56 AM</b>	53.06	44.48	32	29.89	12	w	16	-	-
<b>11:55 AM</b>	53.6	43.61	32	29.89	9	w	-	-	-
<b>11:50 AM</b>	53.6	43.61	32	29.89	8	w	-	-	-
<b>11:45 AM</b>	53.6	43.61	32	29.89	8	w	-	-	-
<b>11:10 AM</b>	51.8	46.59	32	29.89	10	w	-	-	-
<b>11:05 AM</b>	51.8	46.59	32	29.89	11	w	-	-	-
<b>11:00 AM</b>	50	53.53	33.8	29.89	8	w	-	-	-
<b>10:56 AM</b>	50	49.8	32	29.89	6	-	14	-	-
<b>10:55 AM</b>	50	49.8	32	29.89	6	w	-	-	-
<b>10:50 AM</b>	48.2	53.26	32	29.89	9	wnw	-	-	-
<b>10:45 AM</b>	48.2	57.25	33.8	29.88	7	w	-	-	-
<b>9:56 AM</b>	44.96	60.19	32	29.89	9	w	14	-	-

Time <b>9:55 AM</b>	Temp. 44.6	Humidity 61.02	Dew Point (°F)	Barometer 29.88	Wind Speed 0 mph)	Wind Direction	Wind Gust 1 mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>9:50 AM</b>	44.6	61.02	32	29.89	6	w	-	-	-
<b>9:45 AM</b>	44.6	61.02	32	29.89	7	w	-	-	-
<b>8:15 AM</b>	37.4	74.96	30.2	29.87	6	w	-	-	-
<b>8:10 AM</b>	37.4	74.96	30.2	29.88	6	w	-	-	-
<b>8:05 AM</b>	37.4	74.96	30.2	29.87	7	w	-	-	-
<b>8:00 AM</b>	37.4	74.96	30.2	29.87	7	w	-	-	-
<b>7:56 AM</b>	35.96	78.77	30.02	29.87	7	w	-	-	-
<b>7:55 AM</b>	35.6	80.49	30.2	29.87	7	w	-	-	-
<b>7:50 AM</b>	35.6	80.49	30.2	29.87	7	w	-	-	-
<b>7:45 AM</b>	35.6	80.49	30.2	29.86	5	w	-	-	-
<b>7:15 AM</b>	33.8	86.48	30.2	29.86	4	w	-	-	-
<b>7:10 AM</b>	35.6	80.49	30.2	29.85	5	w	-	-	-
<b>7:05 AM</b>	35.6	80.49	30.2	29.85	4	w	-	-	-
<b>7:00 AM</b>	35.6	80.49	30.2	29.85	5	w	-	-	-
<b>6:15 AM</b>	33.8	86.48	30.2	29.84	4	w	-	-	-
<b>6:10 AM</b>	33.8	86.48	30.2	29.83	4	w	-	-	-
<b>6:05 AM</b>	33.8	86.48	30.2	29.83	5	w	-	-	-
<b>6:00 AM</b>	35.6	80.49	30.2	29.83	5	w	-	-	-
<b>5:56 AM</b>	35.06	81.63	30.02	29.83	5	w	-	-	-
<b>5:55 AM</b>	35.6	80.49	30.2	29.83	5	w	-	-	-
<b>5:50 AM</b>	35.6	80.49	30.2	29.83	4	w	-	-	-
<b>5:45 AM</b>	35.6	80.49	30.2	29.83	6	w	-	-	-
<b>5:15 AM</b>	35.6	80.49	30.2	29.82	5	w	-	-	-
<b>5:10 AM</b>	35.6	80.49	30.2	29.83	6	w	-	-	-
<b>5:05 AM</b>	35.6	80.49	30.2	29.83	5	w	-	-	-
<b>5:00 AM</b>	35.6	80.49	30.2	29.83	5	w	-	-	-
<b>4:56 AM</b>	35.06	81.63	30.02	29.83	5	-	-	-	-
<b>4:55 AM</b>	35.6	80.49	30.2	29.83	5	w	-	-	-
<b>4:50 AM</b>	35.6	80.49	30.2	29.83	7	w	-	-	-
<b>4:45 AM</b>	35.6	80.49	30.2	29.83	6	w	-	-	-
<b>4:00 AM</b>	35.6	80.49	30.2	29.84	7	w	-	-	-
<b>3:56 AM</b>	35.96	78.77	30.02	29.84	8	w	-	-	-
<b>3:55 AM</b>	35.6	80.49	30.2	29.84	7	w	-	-	-
<b>3:50 AM</b>	35.6	80.49	30.2	29.84	6	w	-	-	-
<b>3:45 AM</b>	37.4	74.96	30.2	29.84	6	w	-	-	-
<b>3:15 AM</b>	37.4	74.96	30.2	29.84	6	wnw	-	-	-
<b>3:10 AM</b>	37.4	74.96	30.2	29.83	7	w	-	-	-

Time <del>3:05AM</del>	Temp. 69F.4	Humidity 76%	Dew Point (°F)	Barometer 29.85	Wind Speed 7mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>3:00 AM</b>	37.4	74.96	30.2	29.83	7	w	-	-	-
<b>1:56 AM</b>	37.04	75.48	30.02	29.84	8	w	-	-	-
<b>1:55 AM</b>	37.4	74.96	30.2	29.84	7	w	-	-	-
<b>1:50 AM</b>	37.4	74.96	30.2	29.84	7	w	-	-	-
<b>1:45 AM</b>	37.4	74.96	30.2	29.84	7	w	-	-	-
<b>1:15 AM</b>	37.4	74.96	30.2	29.84	7	w	-	-	-
<b>1:10 AM</b>	37.4	74.96	30.2	29.84	8	w	-	-	-
<b>1:05 AM</b>	37.4	74.96	30.2	29.84	7	w	-	-	-
<b>1:00 AM</b>	37.4	74.96	30.2	29.84	6	w	-	-	-
<b>12:56 AM</b>	37.04	78.29	30.92	29.84	7	w	-	-	-
<b>12:55 AM</b>	37.4	74.96	30.2	29.84	6	w	-	-	-
<b>12:50 AM</b>	37.4	74.96	30.2	29.84	8	w	-	-	-
<b>12:45 AM</b>	37.4	74.96	30.2	29.84	6	w	-	-	-
<b>12:15 AM</b>	37.4	74.96	30.2	29.84	8	w	-	-	-
<b>12:10 AM</b>	37.4	74.96	30.2	29.85	8	w	-	-	-
<b>12:05 AM</b>	37.4	74.96	30.2	29.85	10	w	-	-	-
<b>12:00 AM</b>	37.4	74.96	30.2	29.85	8	w	-	-	-

**► Tue, Dec 3rd 2019****► Mon, Dec 2nd 2019****► Sun, Dec 1st 2019****► Sat, Nov 30th 2019****► Fri, Nov 29th 2019****► Thu, Nov 28th 2019****► Wed, Nov 27th 2019****► Tue, Nov 26th 2019****► Mon, Nov 25th 2019****► Sun, Nov 24th 2019****► Sat, Nov 23rd 2019****► Fri, Nov 22nd 2019****► Thu, Nov 21st 2019****► Wed, Nov 20th 2019****► Tue, Nov 19th 2019****► Mon, Nov 18th 2019****► Sun, Nov 17th 2019**



Month

### ≡ Covington, GA Menu

[Home](#) (<https://www.localconditions.com>) / [Local Weather & Traffic](#) (<https://www.localconditions.com/local-weather.php>) / [Georgia](#) (<https://www.localconditions.com/us/weather/georgia/>) / [Covington](#) (<https://www.localconditions.com/weather-covington-georgia/30014/>) / [Past Weather](#)

## Covington, GA Past Weather

### Last 30 Days

- ▶ [Tue, Dec 10th 2019](#)
- ▶ [Mon, Dec 9th 2019](#)
- ▶ [Sun, Dec 8th 2019](#)
- ▶ [Sat, Dec 7th 2019](#)
- ▶ [Fri, Dec 6th 2019](#)
- ▼ [Thu, Dec 5th 2019](#)

**High:** 64.4°f @3:10 PM    **Low:** 37.4°f @7:10 AM    **❶ Approx. Precipitation / Rain Total:** in.

Time (EST)	Temp. (°f)	Humidity (%)	Dew Point (°f)	Barometer (inHG)	Wind Speed (mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>11:56 PM</b>	42.08	67.2	32	30.18	-	-	-	-	-
<b>11:55 PM</b>	42.8	65.37	32	30.18	-	-	-	-	-
<b>11:50 PM</b>	41	75.32	33.8	30.18	-	-	-	-	-
<b>11:45 PM</b>	42.8	70.27	33.8	30.18	-	-	-	-	-
<b>11:15 PM</b>	42.8	70.27	33.8	30.17	-	-	-	-	-
<b>11:10 PM</b>	41	75.32	33.8	30.17	-	-	-	-	-
<b>11:05 PM</b>	41	80.92	35.6	30.17	3	e	-	-	-
<b>11:00 PM</b>	42.8	75.5	35.6	30.17	-	-	-	-	-
<b>10:56 PM</b>	41	75.86	33.98	30.17	-	-	-	-	-
<b>10:55 PM</b>	41	75.32	33.8	30.17	-	-	-	-	-
<b>10:50 PM</b>	42.8	70.27	33.8	30.18	-	-	-	-	-
<b>10:45 PM</b>	42.8	70.27	33.8	30.18	-	-	-	-	-

Time <b>10:15 PM</b>	Temp. 42.8	Humidity 70% <sup>7</sup>	Dew Point (°F)	Barometer 30.16	Wind Speed (mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>10:10 PM</b>	41	75.32	33.8	30.17	-	-	-	-	-
<b>10:05 PM</b>	41	75.32	33.8	30.17	-	-	-	-	-
<b>10:00 PM</b>	41	75.32	33.8	30.17	-	-	-	-	-
<b>9:56 PM</b>	39.92	76.31	33.08	30.17	-	-	-	-	-
<b>9:55 PM</b>	39.2	80.78	33.8	30.17	-	-	-	-	-
<b>9:50 PM</b>	39.2	80.78	33.8	30.17	-	-	-	-	-
<b>9:45 PM</b>	39.2	80.78	33.8	30.16	-	-	-	-	-
<b>9:15 PM</b>	39.2	69.85	30.2	30.16	-	-	-	-	-
<b>9:10 PM</b>	39.2	75.14	32	30.16	-	-	-	-	-
<b>9:05 PM</b>	39.2	80.78	33.8	30.16	-	-	-	-	-
<b>9:00 PM</b>	39.2	75.14	32	30.16	-	-	-	-	-
<b>8:56 PM</b>	41	70.06	32	30.16	-	-	-	-	-
<b>8:55 PM</b>	41	70.06	32	30.16	-	-	-	-	-
<b>8:50 PM</b>	41	70.06	32	30.16	-	-	-	-	-
<b>8:45 PM</b>	42.8	65.37	32	30.16	-	-	-	-	-
<b>8:15 PM</b>	42.8	65.37	32	30.15	-	-	-	-	-
<b>8:10 PM</b>	42.8	65.37	32	30.15	-	-	-	-	-
<b>8:05 PM</b>	44.6	61.02	32	30.15	-	-	-	-	-
<b>8:00 PM</b>	44.6	61.02	32	30.15	-	-	-	-	-
<b>7:56 PM</b>	44.06	62.29	32	30.15	-	-	-	-	-
<b>7:55 PM</b>	44.6	61.02	32	30.15	-	-	-	-	-
<b>7:50 PM</b>	44.6	61.02	32	30.15	-	-	-	-	-
<b>7:45 PM</b>	44.6	61.02	32	30.15	-	-	-	-	-
<b>7:15 PM</b>	44.6	65.6	33.8	30.15	-	-	-	-	-
<b>7:10 PM</b>	44.6	65.6	33.8	30.15	-	-	-	-	-
<b>7:05 PM</b>	46.4	61.27	33.8	30.15	-	-	-	-	-
<b>7:00 PM</b>	46.4	56.99	32	30.15	-	-	-	-	-
<b>6:56 PM</b>	46.94	55.84	32	30.14	-	-	-	-	-
<b>6:55 PM</b>	48.2	49.51	30.2	30.14	-	-	-	-	-
<b>6:50 PM</b>	48.2	53.26	32	30.14	-	-	-	-	-
<b>6:45 PM</b>	48.2	53.26	32	30.14	-	-	-	-	-
<b>6:15 PM</b>	51.8	43.31	30.2	30.14	-	-	-	-	-
<b>6:10 PM</b>	51.8	43.31	30.2	30.14	-	-	-	-	-
<b>6:05 PM</b>	51.8	40.24	28.4	30.14	-	-	-	-	-
<b>6:00 PM</b>	53.6	37.66	28.4	30.13	-	-	-	-	-
<b>5:56 PM</b>	53.06	37.85	28.04	30.13	-	-	-	-	-
<b>5:55 PM</b>	53.6	37.66	28.4	30.13	-	-	-	-	-

Time <b>5:50 PM</b>	Temp. 59.6	Humidity 87%	Dew Point (°F)	Barometer 30.16	Wind Speed (mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>5:45 PM</b>	53.6	37.66	28.4	30.13	-	-	-	-	-
<b>5:15 PM</b>	60.8	26.99	26.6	30.12	-	-	-	-	-
<b>5:10 PM</b>	60.8	26.99	26.6	30.12	-	-	-	-	-
<b>5:05 PM</b>	60.8	26.99	26.6	30.12	-	-	-	-	-
<b>5:00 PM</b>	60.8	26.99	26.6	30.12	3	w	-	-	-
<b>4:56 PM</b>	60.98	27.22	26.96	30.12	3	w	-	-	-
<b>4:55 PM</b>	60.8	26.99	26.6	30.12	4	w	-	-	-
<b>4:50 PM</b>	60.8	26.99	26.6	30.12	-	-	-	-	-
<b>4:45 PM</b>	62.6	25.32	26.6	30.12	-	-	-	-	-
<b>4:15 PM</b>	62.6	23.5	24.8	30.12	3	w	-	-	-
<b>4:10 PM</b>	62.6	23.5	24.8	30.11	-	-	-	-	-
<b>4:05 PM</b>	62.6	25.32	26.6	30.11	3	w	-	-	-
<b>4:00 PM</b>	62.6	23.5	24.8	30.11	3	w	-	-	-
<b>3:56 PM</b>	62.96	24.45	26.06	30.11	4	-	-	-	-
<b>3:55 PM</b>	62.6	25.32	26.6	30.11	5	w	-	-	-
<b>3:50 PM</b>	62.6	23.5	24.8	30.11	6	WSW	-	-	-
<b>3:45 PM</b>	62.6	23.5	24.8	30.11	4	SW	-	-	-
<b>3:15 PM</b>	62.6	25.32	26.6	30.11	3	WNW	-	-	-
<b>3:10 PM</b>	64.4	23.78	26.6	30.11	6	w	-	-	-
<b>3:05 PM</b>	62.6	23.5	24.8	30.11	3	w	-	-	-
<b>3:00 PM</b>	62.6	23.5	24.8	30.11	3	SW	-	-	-
<b>2:56 PM</b>	62.96	23.38	24.98	30.11	6	WSW	-	-	-
<b>2:55 PM</b>	64.4	22.06	24.8	30.11	6	WSW	-	-	-
<b>2:50 PM</b>	62.6	23.5	24.8	30.11	5	w	-	-	-
<b>2:45 PM</b>	62.6	23.5	24.8	30.11	3	n	-	-	-
<b>2:15 PM</b>	62.6	23.5	24.8	30.11	3	sw	-	-	-
<b>2:10 PM</b>	62.6	25.32	26.6	30.11	4	w	-	-	-
<b>2:05 PM</b>	62.6	23.5	24.8	30.11	6	WSW	-	-	-
<b>2:00 PM</b>	62.6	23.5	24.8	30.11	-	-	-	-	-
<b>1:56 PM</b>	62.96	23.38	24.98	30.11	-	-	-	-	-
<b>1:55 PM</b>	62.6	23.5	24.8	30.11	3	WSW	-	-	-
<b>1:50 PM</b>	62.6	25.32	26.6	30.11	6	WNW	-	-	-
<b>1:45 PM</b>	62.6	25.32	26.6	30.11	3	WNW	-	-	-
<b>1:15 PM</b>	62.6	25.32	26.6	30.12	3	NNW	-	-	-
<b>1:10 PM</b>	62.6	25.32	26.6	30.12	5	WNW	-	-	-
<b>1:05 PM</b>	62.6	25.32	26.6	30.12	7	WSW	-	-	-
<b>1:00 PM</b>	62.6	23.5	24.8	30.12	4	WSW	-	-	-

Time <b>12:55 PM</b>	Temp. 62.06	Humidity 25% 24	Dew 26.06 (°F)	Barometer 30.16	Wind Speed 0mph	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>12:55 PM</b>	62.6	25.32	26.6	30.13	-	-	-	-	-
<b>12:50 PM</b>	62.6	25.32	26.6	30.13	6	w	-	-	-
<b>12:45 PM</b>	60.8	26.99	26.6	30.13	4	NNW	-	-	-
<b>12:10 PM</b>	59	30.99	28.4	30.14	7	w	-	-	-
<b>12:05 PM</b>	59	30.99	28.4	30.14	4	nw	-	-	-
<b>12:00 PM</b>	57.2	33.05	28.4	30.14	5	w	-	-	-
<b>11:56 AM</b>	57.92	31.73	28.04	30.14	-	-	-	-	-
<b>11:55 AM</b>	57.2	33.05	28.4	30.14	3	WSW	-	-	-
<b>11:50 AM</b>	57.2	33.05	28.4	30.14	6	w	-	-	-
<b>11:45 AM</b>	59	30.99	28.4	30.14	4	nw	-	-	-
<b>11:15 AM</b>	57.2	33.05	28.4	30.15	5	w	-	-	-
<b>11:10 AM</b>	57.2	33.05	28.4	30.15	4	NNW	-	-	-
<b>11:05 AM</b>	57.2	33.05	28.4	30.15	3	WNW	-	-	-
<b>11:00 AM</b>	55.4	37.97	30.2	30.15	6	w	-	-	-
<b>10:56 AM</b>	55.94	35.36	28.94	30.15	5	-	-	-	-
<b>10:55 AM</b>	55.4	35.27	28.4	30.16	5	WNW	-	-	-
<b>10:50 AM</b>	55.4	37.97	30.2	30.15	7	w	-	-	-
<b>10:45 AM</b>	55.4	37.97	30.2	30.15	3	WNW	-	-	-
<b>10:10 AM</b>	53.6	40.54	30.2	30.14	3	w	-	-	-
<b>10:05 AM</b>	51.8	43.31	30.2	30.14	5	WNW	-	-	-
<b>10:00 AM</b>	51.8	43.31	30.2	30.14	7	WNW	-	-	-
<b>9:56 AM</b>	51.98	42.71	30.02	30.14	5	w	-	-	-
<b>9:55 AM</b>	51.8	43.31	30.2	30.14	5	w	-	-	-
<b>9:50 AM</b>	51.8	43.31	30.2	30.13	6	w	-	-	-
<b>9:45 AM</b>	51.8	43.31	30.2	30.13	3	WNW	-	-	-
<b>9:15 AM</b>	48.2	53.26	32	30.11	4	w	-	-	-
<b>9:10 AM</b>	48.2	49.51	30.2	30.11	5	w	-	-	-
<b>9:05 AM</b>	48.2	53.26	32	30.11	5	w	-	-	-
<b>9:00 AM</b>	46.4	52.98	30.2	30.1	5	w	-	-	-
<b>8:56 AM</b>	46.04	55.3	30.92	30.1	5	w	-	-	-
<b>8:55 AM</b>	46.4	52.98	30.2	30.1	4	w	-	-	-
<b>8:50 AM</b>	46.4	52.98	30.2	30.1	5	WSW	-	-	-
<b>8:45 AM</b>	46.4	56.99	32	30.09	5	w	-	-	-
<b>8:10 AM</b>	42.8	65.37	32	30.08	-	-	-	-	-
<b>8:05 AM</b>	42.8	65.37	32	30.08	3	w	-	-	-
<b>8:00 AM</b>	42.8	65.37	32	30.08	3	w	-	-	-
<b>7:56 AM</b>	41	73.18	33.08	30.08	-	-	-	-	-

Time <del>7:55</del> AM	Temp. (°F)	Humidity (%)	Dew Point (°F)	Barometer (inHg)	Wind Speed (mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>7:50 AM</b>	42.8	65.37	32	30.07	-	-	-	-	-
<b>7:45 AM</b>	42.8	65.37	32	30.07	-	-	-	-	-
<b>7:10 AM</b>	37.4	74.96	30.2	30.06	3	sw	-	-	-
<b>7:05 AM</b>	39.2	69.85	30.2	30.06	-	-	-	-	-
<b>7:00 AM</b>	39.2	69.85	30.2	30.05	-	-	-	-	-
<b>6:15 AM</b>	42.8	60.77	30.2	30.03	-	-	-	-	-
<b>6:10 AM</b>	42.8	60.77	30.2	30.03	3	wnw	-	-	-
<b>6:05 AM</b>	42.8	60.77	30.2	30.02	3	w	-	-	-
<b>6:00 AM</b>	42.8	60.77	30.2	30.02	4	w	-	-	-
<b>5:15 AM</b>	42.8	60.77	30.2	30.01	6	w	-	-	-
<b>5:10 AM</b>	42.8	60.77	30.2	30.01	5	w	-	-	-
<b>5:05 AM</b>	44.6	56.72	30.2	30.01	4	w	-	-	-
<b>5:00 AM</b>	44.6	56.72	30.2	30.01	5	w	-	-	-
<b>4:56 AM</b>	44.06	59.62	30.92	30.02	4	w	-	-	-
<b>4:55 AM</b>	44.6	56.72	30.2	30.02	5	w	-	-	-
<b>4:50 AM</b>	44.6	56.72	30.2	30.01	5	w	-	-	-
<b>4:45 AM</b>	44.6	56.72	30.2	30.01	4	w	-	-	-
<b>4:15 AM</b>	44.6	61.02	32	30.01	3	nw	-	-	-
<b>4:10 AM</b>	44.6	61.02	32	30.01	3	wnw	-	-	-
<b>4:05 AM</b>	44.6	61.02	32	30.01	5	wnw	-	-	-
<b>4:00 AM</b>	44.6	61.02	32	30.01	-	-	-	-	-
<b>3:56 AM</b>	44.96	62.86	33.08	30.01	4	-	-	-	-
<b>3:55 AM</b>	44.6	65.6	33.8	30.01	4	wnw	-	-	-
<b>3:50 AM</b>	44.6	65.6	33.8	30.01	5	wnw	-	-	-
<b>3:45 AM</b>	44.6	65.6	33.8	30.01	5	w	-	-	-
<b>3:10 AM</b>	46.4	61.27	33.8	30	4	w	-	-	-
<b>3:05 AM</b>	46.4	61.27	33.8	30	6	w	-	-	-
<b>3:00 AM</b>	46.4	61.27	33.8	-	6	w	-	-	-
<b>2:56 AM</b>	46.04	60.34	33.08	29.99	6	-	-	-	-
<b>2:55 AM</b>	46.4	61.27	33.8	29.99	6	w	-	-	-
<b>2:50 AM</b>	46.4	61.27	33.8	29.99	5	w	-	-	-
<b>2:45 AM</b>	46.4	61.27	33.8	29.99	6	w	-	-	-
<b>2:15 AM</b>	46.4	61.27	33.8	29.99	5	w	-	-	-
<b>2:10 AM</b>	46.4	61.27	33.8	29.99	6	w	-	-	-
<b>2:05 AM</b>	46.4	61.27	33.8	29.99	7	w	-	-	-
<b>2:00 AM</b>	46.4	61.27	33.8	29.99	7	w	-	-	-
<b>1:56 AM</b>	46.94	60.46	33.98	29.99	6	w	-	-	-

Time <b>11:55 AM</b>	Temp. 66.4	Humidity 62%	Dew Point (°F)	Barometer 29.98	Wind Speed 6mph)	Wind Direction	Wind Gust (mph)	1hr. Precip / Rain Total (in.)	Snow Depth
<b>1:50 AM</b>	46.4	61.27	33.8	29.98	6	w	-	-	-
<b>1:45 AM</b>	46.4	61.27	33.8	29.98	6	w	-	-	-
<b>1:15 AM</b>	46.4	61.27	33.8	29.98	9	w	-	-	-
<b>1:10 AM</b>	46.4	61.27	33.8	29.98	7	w	-	-	-
<b>1:05 AM</b>	46.4	61.27	33.8	29.98	7	w	-	-	-
<b>1:00 AM</b>	46.4	61.27	33.8	29.98	6	w	-	-	-
<b>12:56 AM</b>	46.94	60.46	33.98	29.98	7	w	-	-	-
<b>12:55 AM</b>	46.4	61.27	33.8	29.98	7	w	-	-	-
<b>12:50 AM</b>	46.4	61.27	33.8	29.98	6	w	-	-	-
<b>12:45 AM</b>	48.2	57.25	33.8	29.98	6	w	-	-	-
<b>12:15 AM</b>	48.2	57.25	33.8	29.97	5	wnw	-	-	-
<b>12:10 AM</b>	48.2	57.25	33.8	29.97	6	w	-	-	-
<b>12:05 AM</b>	48.2	57.25	33.8	29.97	6	w	-	-	-
<b>12:00 AM</b>	48.2	57.25	33.8	29.97	5	w	-	-	-

**► Wed, Dec 4th 2019****► Tue, Dec 3rd 2019****► Mon, Dec 2nd 2019****► Sun, Dec 1st 2019****► Sat, Nov 30th 2019****► Fri, Nov 29th 2019****► Thu, Nov 28th 2019****► Wed, Nov 27th 2019****► Tue, Nov 26th 2019****► Mon, Nov 25th 2019****► Sun, Nov 24th 2019****► Sat, Nov 23rd 2019****► Fri, Nov 22nd 2019****► Thu, Nov 21st 2019****► Wed, Nov 20th 2019****► Tue, Nov 19th 2019****► Mon, Nov 18th 2019****► Sun, Nov 17th 2019****► Sat, Nov 16th 2019****► Fri, Nov 15th 2019**