UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
Science and Ecosystem Support Division
Enforcement and Investigations Branch
980 College Station Road
Athens, Georgia 30605-2720

March 17, 2017

4SESD-EIB

MEMORANDUM

SUBJECT: Grenada Manufacturing Vapor Intrusion Investigation
(a.k.a. Rockwell International Wheel and Trim)
Grenada, Mississippi
SESD Project # 17-0050

FROM: Tim Slagle
Superfund and Air Section

THRU: Laura Ackerman, Chief
Superfund and Air Section

TO: Brian Bastek, RCRA Project Manager
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Attached is a copy of the Grenada Manufacturing Vapor Intrusion Investigation Sampling Event Report, that was conducted in Grenada, Mississippi, November 28 -December 2, 2016. If you have any questions or comments concerning the report, please call me at (706) 355-8741 or e-mail me at Slagle.Tim@epa.gov.

Project ID: 17-0050

Grenada Manufacturing (a.k.a. Rockwell Wheel and Trim) Vapor Intrusion Sampling Investigation Report

Grenada, Grenada County, Mississippi

Project Date: November 28 – December 2, 2016

Report Release: March 2017

Project Leader: Tim Slagle
Superfund and Air Section
Field Services Branch
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The activities depicted in this report are accredited under the US EPA Region 4 Science and Ecosystem Support Division ISO/IEC 17025 accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation AT-1644.

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1.0 Introduction

This document was prepared for the purpose of reporting the results of vapor intrusion air samples and meteorological data collected November 28 – December 2, 2016, by the USEPA Region 4, Science and Ecosystem Support Division (SESD) in the Eastern Heights neighborhood located directly north of the Grenada Manufacturing Site which is an active facility located at 635 Hwy 332, in Grenada, Mississippi. The investigation was requested by Brian Bastek, Project Manager, US EPA Region 4, Resource Conservation & Restoration Division.

SESD was tasked to collect indoor air and sub-slab soil gas samples at 18 residences. In addition, SESD collected ambient air samples at seven locations and established a temporary meteorological site for collection of wind speed and direction data. The samples were analyzed for Volatile Organic Compounds (VOCs) by the USEPA, SESD, Analytical Services Branch (ASB) laboratory.

The data from the sampling event will be used to inform the Project Manager (PM), of a potential pathway of indoor air contaminants seen in previous sampling events. The data generated by the study and represented in the subsequent sections will be evaluated by the PM. Air results will be compared to screening levels calculated by EPA Region 4 Superfund Scientific Services Section. Decisions for future actions on the site will be made by the PM.

The following personnel participated in the investigation:

Personnel	**Organization**	**Responsibilities**
Tim Slagle	USEPA/SESD	Project Leader, Sampler
Landon Pruitt	USEPA/SESD	Safety Officer, Sampler, Sample Processing
Don Fortson	Alion Science and Technology	SESD Sampler
Daniel Ferguson	Atlas Geo-Sampling	Sampler for the law firm representing the residents

2.0 Site Background

The manufacturing facility was constructed by Lyon in 1961 and sold to Rockwell International Corporation (Rockwell) in 1966. Rockwell's Automotive Division operated a wheel cover manufacturing facility at the site from 1966 to 1985 when the plant and property were sold to Textron Automotive Company (Textron), formerly Randall Textron. The Automotive Division was spun off from Rockwell in 1997 to form Meritor. In 1999, Textron sold the operations and property to Grenada Manufacturing, LLC (Grenada Manufacturing), who continued to operate the wheel cover plant until 2008 when portions of the plant and property were leased to ICE Industries, Inc. (ICE). Throughout most of the site history, the facility was used to manufacture automobile wheel covers. Following ICE's lease of the premises, the facility was converted to a

stamping plant, providing stamp-formed parts for various industries. Since 1989 EPA has been involved with the site and there have been a number of investigations and sampling events to discover and delineate a trichloroethene (TCE) contaminated groundwater plume and possible vapor intrusion and other air quality issues. There are several areas of concern that are potential sources for the contamination including several lagoons, an above ground storage tank (TCE), a below ground storage tank (toluene), an on-site landfill, and a waste water treatment plant.

3.0 Summary

SESD was tasked to collect indoor air and sub-slab soil gas samples in 18 homes. Access was denied to the inside of the home at (b) (6) (Sample Station GM124) by the resident; however, the resident allowed the East Ambient Air Monitoring Sample Location (Sample Station GM11) to be placed in the backyard for the first day of sampling. Following the first day of sampling the resident requested that the ambient air sampler be removed from the backyard. Subsequent samples for Sample Station GM11 were collected from the next door backyard at (b) (6). Residential ambient air samples were collected at four locations for the 3-day time period that the indoor air samples were collected. In addition, three ambient air stations were located west of the neighborhood across Highway 332.

Previous indoor air samples collected in May and September 2016 at (b) (6) (Sample Station GM123) showed a source of benzene inside the home that could not be identified. The 24-hour indoor air sample collected during this study showed an indoor air concentration of benzene of 36 ug/m^3. The indoor air concentration of benzene has decreased with each successive sampling investigation.

The three additional ambient air sampling stations added to this investigation in the old landfill area had the highest concentrations of chlorinated analytes in the ambient air for this investigation. The sample collected at the North Landfill Ambient Air Location (GM18), started on November 29, 2016 had the highest concentration of trichloroethene at 2.8 J,O ug/m^3. In addition, this location had the only detection of chloroform at 3.2 ug/m^3, methylene chloride at 3.5 ug/m^3 and vinyl chloride at 0.82 J,O ug/m^3. These concentrations were possibly biased low by high winds and heavy rain that could have diluted the ambient concentrations.

The BTEX chemicals, (benzene, toluene, ethylbenzene, ortho-xylene and meta/para-xylenes) and 1,2,4-trimethylbenzene, which is a gasoline additive, are all components of vehicle emissions and were detected in the ambient air samples. The ambient air concentrations of these VOCs were typical of an urban location and are likely to be found in the ambient air near roadways.

The sample station identifiers and locations are listed in Tables 1 and 2. All samples were analyzed for the VOCs listed in Table 3. All tables are provided in Appendix B at the end of this report.

4.0 Results and Discussion

4.1 Field Observations

Weather patterns were highly variable during the investigation. Sunny to partly cloudy skies, changed to strong thunderstorms with a nearby tornado and high winds, changing to clear skies. Observed winds were southerly until arrival of the storm front, then they shifted to mostly westerly, for the remainder of the sampling event. As a result of the tornadic winds and heavy rains; two ambient air samples at the landfill were voided due to water entrainment.

The resident at (b) (6) (sample station GM109) was observed smoking indoors after being advised that the smoke could interfere with the results of the investigation.

T and M Associates was observed conducting maintenance on the monitoring wells at the slurry wall located on the west side of the landfill. These activities continued throughout the investigation. SESD questioned the operator to determine if the activities could impact the air sampling event; however, the operator was not permitted to disclose to EPA the activities that they were conducting.

Atlas Geo-Sampling collected samples at several of the same locations that SESD sampled. The ambient air and indoor air samples collected by Atlas and SESD were collected at roughly the same time. The inlet tubing of the Atlas samplers was not made of stainless steel and had a non-stainless steel moisture filter. These materials are not approved by EPA Method TO-15A and can contribute to or adsorb analytes. The soil gas samples collected by Atlas were collected after SESD's samples.

SESD observed Atlas Geo-Sampling collecting samples at the following 6 locations:

GM11 - West Ambient Air Monitoring Station
GM115 - (b) (6) Indoor Air Sample
GM114 - (b) (6) Indoor Air Sample
GM121 – (b) (6) Indoor Air Sample
GM113 – (b) (6) Indoor Air Sample
GM122 – (b) (6) Indoor Air Sample

Additional field observations that did not affect data quality are recorded in the Sampling Logbook in Appendix E.

4.2 VOC Analytical Results

SESD collected 65 samples for this investigation. There were 15 ambient air samples including co-located duplicate samples from 4 stations located around the perimeter of the Eastern Heights residential study area. Nine ambient air samples were collected at three additional sites located at the landfill area. Two of the landfill ambient air samples were voided due to water entrainment. SESD also collected 19 sub-slab soil gas samples

and 19 indoor air samples from 17 homes including co-located duplicate and split samples. In addition, 3 trip blank samples were collected.

The samples were analyzed for a group of site specific VOCs listed in Table 3 in Appendix B. The ambient air stations and 17 residences sampled can be seen on the maps in Figures 1 and 2 in Appendix A. The summarized analytical results of each residence can be seen in Tables 4 thru 20 in Appendix B. These tables are organized in the order that the indoor air and soil gas samples were collected. The SESD Analytical Report can be found in Appendix E.

The minimum detection limits (MDLs), which are based on the analyte and the lab equipment, as well as method procedures required for the analysis of the samples are listed in Table 3 for each VOC analyte. The minimum reporting limits (MRLs) are included in the analytical results tables in Appendix C for the non-detected target compounds. The "non-detects" are followed by a "U" (data qualifier) that denotes the analyte was not detected above the listed numerical value. That listed value is the associated MRL and may vary between samples based on the dilutions required to quantify the concentration of the VOC analytes accurately. Some of the MRLs listed for the non-detects may be larger than the screening levels, but if the VOC was detected above the MDL but below the MRL, it will be reported, but flagged with a "J" as an estimated concentration. Many of the analytical results are followed by an "O" which denotes Other Data Qualifiers; refer to the list of Data Qualifiers at the front of the SESD Analytical Report.

5.0 Field Quality Control

Three air trip blanks were prepared by the lab, transported with the sampling canisters, and handled the same as each air sample. There were no detections in any of the air trip blanks, the data can be seen in the SESD Analytical Report.

Analytical results associated with quality control samples are presented in Tables 21 to 23 in Appendix B. The data qualifier flags were removed for the sake of relative percent difference (RPD) calculations and are listed on page 5 of the SESD Analytical Report.

Co-located duplicate ambient air samples were collected at the South Ambient Air Location (station GM01) on each of the three days of the investigation. The same analytes were detected in the primary samples versus the duplicate samples each day, except on December 1, 2016; in GM01AA31116 (m- and/or p-) xylene was detected at a concentration of 0.43 ug/m^3 J, the primary sample, but was not detected in the duplicate sample GM01AA1116D. The MDL of 0.19 ug/m^3, was used for the calculation of a 77.42% RPD due to the non-detection of the analyte. Absolute values of RPD for the 3 sets of primary and co-located samples were between 0.00% and 20.18% for the remaining analytes. RPDs in this range can be attributed to low concentration analytes, which are estimated with a "J" flag and a Q-2 flag, meaning the concentration is greater than the MDL but less than the MRL. The RPD values for the co-located ambient air samples can be seen in Table 21 in Appendix B.

A co-located duplicate indoor air sample and a split sub-slab soil gas sample were collected at (b) (6) [redacted] (station GM107) on November 29, 2016. The same analytes were detected in the primary sample versus the co-located duplicate indoor air sample. Absolute values of RPD of the indoor air primary and duplicate samples were between 1.60% and 5.88%. There were no analytes detected in the split sub-slab soil gas samples. The RPD values for the GM107 samples can be seen in Table 22 in Appendix B.

A co-located duplicate indoor air sample and a split sub-slab soil gas sample were also collected at (b) (6) [redacted] (station GM117) on November 30, 2016. The same analytes were detected in the primary sample versus the co-located duplicate indoor air sample. Absolute values of the RPDs for the indoor air primary and co-located samples were between 1.01% and 12.95%. The same analytes were detected in the primary sample versus the split sub-slab soil gas sample with the exception of 1,2-dichloroethane. In the primary soil gas sample, GM117SS1116 detected 1,2-dichloroethane at a concentration of 0.25 ug/m^3 J, but was not detected in the split sample GM117S1116S. The MDL of 0.11 ug/m^3 was used for the calculation the 77.78% RPD due to the non-detection of the analyte in the split sample. Absolute values of RPDs of the remaining sub-slab soil gas primary and split sample were between 0.00% and 2.20%. The RPD values for the GM117 samples can be seen in Table 23 in Appendix B.

RPDs were calculated using the following equation:

$$RPD = \frac{Split\ Sample\ Result - Primary\ Sample\ Result}{Average\ of\ Split\ and\ Primary\ Sample\ Results} * 100\%$$

The RPDs in the co-located duplicate air samples and sub-slab soil gas samples are relatively low and are not significant enough to adversely affect the outcome of the project.

6.0 Methodology

A Quality Assurance Project Plan (QAPP) approved in October, 2016 for this project was used to guide site activities. The following SESD procedures were cited in the QAPP and used in this study:

SESDPROC-303-R5 Ambient Air Sampling
SESDPROC-307-R3 Soil Gas Sampling
SESDPROC-110-R4 Global Positioning System
SESDPROC-005-R3 Sample and Evidence Management
SESDPROC-010-R5 Log Books
SESDPROC-205-R3 Field Equipment Cleaning and Decontamination

The specific procedures and processes used are detailed in the subsequent sections. The samples were sent to the SESD Analytical Services Branch (ASB) laboratory for analysis.

6.1 Sub-Slab Soil Gas Sampling

SESD collected sub-slab soil gas samples from 17 residences (see Figure 1). The soil gas samples were collected from previously installed permanent sampling ports in the floor of each residence. At (b) (6) (sample station GM119) the temporary port was removed after the May 2016 sampling event. A new temporary port was installed for this investigation. In addition, the permanent sample port installed at (b) (6) (sample station GM116) was covered with new ceramic floor tile. After 2 attempts at redrilling and hitting rebar a new temporary sampling port was successfully located in the bedroom doorway on the third try.

SESD collected samples by connecting a short length of ¼ inch diameter Teflon® tubing to the port. To insure the seal around the sampling port was not leaking, a helium filled stainless steel shroud was placed over the sampling port. The tubing was passed thru the shroud. The shroud was filled with ultra-pure helium while a soil gas sample was collected into a Tedlar® bag for on-site sample analysis of helium content. The helium concentration in the Tedlar® bag had to be less than ten percent of the helium concentration in the shroud to insure integrity of the sampling port. None of the sampling ports failed the leak test. SESD then connected the sampling tube to a soil gas controller attached to a 6-liter passivated sampling canister. The canister was filled over a period of approximately 30-minutes depending on soil conditions. Then the sample tube was removed, the sampling port capped and the floor covering replaced. The canister was returned to SESD for analysis of the analytes listed in Table 3.

6.2 Indoor Air and Residential Ambient Air Sampling

SESD collected 24-hour indoor air and ambient air samples using 6-liter passivated sampling canisters equipped with flow controllers. The indoor air samples were started immediately after the sub-slab soil gas sampling was completed. The indoor air samples were collected in the central portion of the home where the residents spend most of their time; usually the living, dining room or a hallway in the center of the house.

SESD collected residential ambient air samples at four locations around the perimeter of the study area. The ambient air samples were collected during the indoor air sampling interval, to assess the background concentrations of VOCs contained in the ambient air that may be infiltrating the indoor air. The ambient air monitoring locations are designated by yellow triangles on Figures 1 and 2 and are listed below.

GM12 - North Ambient Air Location
GM01 – South Ambient Air Location (co-located duplicate)
GM13 – East ambient Air Location
GM11 – West Ambient Air Location

The ambient air samples were collected on the three days when indoor air samples were also collected. Each 24-hour indoor air sample has two consecutive 24-hour ambient air samples associated with it. Collection of the ambient air and indoor air samples began as

the canisters were deployed at each location and thus had varying start times. When comparing the ambient and indoor air sample data, it was necessary to use data from the ambient air samples that bracketed the 24-hour collection period of the indoor air samples; therefore, the indoor air sample results for each of the residences shown in Tables 4 to 19, have 48-hour ambient air sample data that the 24-hour indoor air sample was collected within. Except for Lyon Drive (GM123), were the indoor and ambient air samples were collected in approximately the same 24-hour time period, this was due to access to the residence, this data set is in Table 20.

6.3 Landfill Ambient Air Sampling

For this investigation, Glen Adams, US EPA Region 4, Superfund Technical Services Section, requested SESD to add 3 ambient air monitoring sites, that were not listed in the QAPP. The additional monitoring sites are designated as Landfill Ambient Air monitoring sites, located on the west side of Highway 332, directly east of the Grenada Manufacturing facility and southwest of the Eastern Heights neighborhood.

SESD collected 24-hour ambient samples using 6-liter passivated sampling canisters equipped with flow controllers. SESD collected the landfill ambient air samples at three locations near the creek that borders the north and west side of the capped landfill. The landfill ambient air monitoring locations are designated by yellow triangles on Figure 2 and are listed below.

GM19 – South Landfill Ambient Air Location
GM18 – North Landfill Ambient Air Location
GM02 – Old Water Treatment Plant Ambient Air Location

All sampling and QA/QC procedures for field activities were conducted in accordance with the EPA Region 4 SESD Field Branches Quality Systems and Technical Procedures. Sample custody was maintained by SESD for transport to the ASB laboratory for analysis.

Analysis of the samples was conducted by the ASB laboratory in accordance with *EPA Compendium Method TO-15, Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography /Mass Spectrometry (GC/MS)*, January 1999. Laboratory QA/QC procedures were conducted in accordance with the guidelines incorporated in the analytical methods.

6.4 Meteorological Data

A temporary meteorological station was established by SESD at the capped equalization pond which is located south of the Eastern Heights neighborhood on the Grenada Manufacturing property. This is a secure site that is fenced and guarded and has been used as a meteorological station in previous investigations. The site is a large open level field that is free of obstructions that might influence data collection. The wind speed and direction data collected during the investigation show that the wind was generally from

the west. The hourly wind data is divided into the three time periods that the ambient air samples were collected in. The hourly meteorological data can be seen in Tables 26 to 28 in Appendix C.

Table 26 displays the wind speed and direction data for the period 07:00 on November 29, 2016 to 08:00 on November 30, 2016. The data shows that the hourly wind speed average varied from 0.6 miles per hour (mph) to 5.8 mph with gusts up to 33 mph. The wind direction was predominantly from the south until 18:00 on November 29 then became variable as thunderstorms moved into the area.

Table 27 displays the wind speed and direction data for the period 07:00 on November 30, 2016 to 08:00 on December 1, 2016. The data shows that the hourly wind speed average varied from 0.6 miles per hour (mph) to 7.3 mph with gusts up to 20 mph. The wind direction was predominantly from the west.

Table 28 displays the wind speed and direction data for the period 07:00 on December 1, 2016 to 18:00 on December 1, 2016. When the external batteries failed due to moisture from the heavy thunderstorms. The data shows that the hourly wind speed average varied from 0.7 miles per hour (mph) to 4.5 mph with gusts up to 13 mph. The wind direction was predominantly from the west to southwest.

7.0 Conclusions

This project was conducted to inform decisions about the potential risk posed to the residences of a neighborhood just north of the former Grenada Manufacturing facility from possible indoor air contamination.

The 16 VOC target analytes requested for this investigation are listed Table 3 in Appendix B.

Six of the analytes are not chlorinated and are commonly found in gasoline and diesel fuel. 1,2,4-trimethylbenzene which is a gasoline additive and the BTEX chemicals (benzene, toluene, ethylbenzene, ortho-xylene and meta/para-xylenes) are all components of vehicle emissions and are commonly detected at ambient air stations near roadways.

Ten of the analytes are chlorinated; 1,1,2-trichloroethane, 1,1-dichloroethene, 1,2-dichloroethane, chloroform, methylene chloride, tetrachloroethene (PCE), trichloroethene (TCE), vinyl chloride, cis-1,2-dichloroethene, and trans-1,2-dichloroethene.

The data for each of the 17 residences is presented in Tables 4 to 20 in Appendix B. These tables each have three elements;

- The VOC concentrations (detections) at the 4 residential ambient air stations for the two days bracketing the indoor air sample collection.
- The VOC detections in the 24-hour indoor air sample for the residence.
- The VOC detections in the sub-slab soil gas sample for the residence.

Each of the detections are highlighted in yellow, to aid in comparison of the concentrations between the three different matrices; ambient air, indoor air and sub-slab soil gas.

Photographs of each sampling station are presented in images 1 to 42 in Appendix D. Images 1 to 8 are the seven ambient air sampling stations. Images 10 to 42 are the residential sub-slab soil gas and indoor air sampling stations. These photographs are arranged in order of sub-slab soil gas sample collection. In addition, each page represents a separate residence with the sub-slab soil gas sampling station at the top of the page and the indoor air sampling station at the bottom.

The Photograph Log containing the photographs taken during this investigation (presented in contact sheet format) and the individual data for each photograph are in Appendix D.

7.1 Sub-Slab Soil Gas Sampling

VOCs were detected in each of the sub-slab soil gas samples collected for this investigation, except for (b) (6) (GM111), (b) (6) (GM114) and (b) (6) (GM107). The maximum and minimum concentrations, the total number of occurrences (samples) of each analyte, and the station location where the maximum concentration was detected are summarized in Chart 1 at the end of this section.

Eight of the 16 VOC target analytes were detected in the 19 sub-slab soil gas samples (17 locations plus two split samples).

Four of the ten chlorinated analytes were detected in the sub-slab soil gas samples; 1,2-dichloroethene was detected in one sample, chloroform was detected in ten samples, tetrachloroethene (PCE) was detected in nine samples and trichloroethene (TCE) was detected in two samples.

Four of the six non-chlorinated analytes were detected in the sub-slab soil gas samples; 1,2,4-trimethylbenzene was detected in one sample, benzene was detected in seven samples, toluene was detected in six samples and o-xylene was detected in two samples.

Eight of the VOC target analytes were not detected in any of the sub-slab soil gas samples these were; (m- and/or p-) xylene, 1,1,2-trichloroethane, 1,1-dichloroethene, ethyl benzene, methylene chloride, vinyl chloride, cis-1,2-dichloroethene and trans-1,2-dichloroethene.

Chart 1					
Sub-Slab Soil Gas Maximum and Minimum VOC Concentration Summary					
Analyte	Units	Maximum Concentration	Minimun Concentration	Total Occurances	Maximum Concentration Station ID
(m- and/or p-)Xylene	ug/m3	0	0	0	N/D
1,1,2-Trichloroethane	ug/m3	0	0	0	N/D
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	0	0	0	N/D
1,2,4-Trimethylbenzene	ug/m3	0.48	0.48	1	GM116
1,2-Dichloroethane	ug/m3	0.25	0.25	1	GM117
Benzene	ug/m3	1.7	0.14	7	GM116
Chloroform	ug/m3	15	0.28	10	GM113
Ethyl Benzene	ug/m3	0	0	0	N/D
Methylene Chloride	ug/m3	0	0	0	N/D
Tetrachloroethene (Tetrachloroethylene)	ug/m3	0.81	0.3	9	GM116
Toluene	ug/m3	0.78	0.22	6	GM116
Trichloroethene (Trichloroethylene)	ug/m3	0.29	0.27	2	GM113
Vinyl chloride	ug/m3	0	0	0	N/D
cis-1,2-Dichloroethene	ug/m3	0	0	0	N/D
o-Xylene	ug/m3	0.33	0.24	2	GM119
trans-1,2-Dichloroethene	ug/m3	0	0	0	N/D
Detects are Highlighted		N/D = Not Detected			

7.2 Residential Ambient Air Sampling

VOCs were detected in each of the residential ambient air samples collected for this investigation. The maximum and minimum concentrations, the total number of occurrences (samples) of each analyte, and the station location where the maximum concentration was detected are summarized in Chart 2 at the end of this section.

Seven of the 16 VOC target analytes were detected in the 15 residential ambient air samples (5 locations including co-located duplicate sample for 3 days). The highest concentrations of all seven of the analytes detected at the four residential ambient air stations were found at the West Ambient Air Monitoring station (GM11) which is next to Highway 332.

All six of the non-chlorinated analytes were found in the ambient air samples, (m- and/or p-) xylene was detected in seven samples, 1,2,4-trimethylbenzene was found in ten samples, benzene and toluene was detected in all 15 samples, ethylbenzene was detected in one sample, o-xylene was detected in eight samples. Trichloroethene was the only chlorinated analyte detected and was only detected in one residential ambient air sample.

Chart 2					
Residential Ambient Air Maximum and Minimum VOC Concentration Summary					
Analyte	Units	Maximum Concentration	Minimun Concentration	Total Occurances	Maximum Concentration Station ID
(m- and/or p-)Xylene	ug/m3	0.67	0.43	7	GM11
1,1,2-Trichloroethane	ug/m3	0	0	0	N/D
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	0	0	0	N/D
1,2,4-Trimethylbenzene	ug/m3	0.71	0.24	10	GM11
1,2-Dichloroethane	ug/m3	0	0	0	N/D
Benzene	ug/m3	0.55	0.3	15	GM11
Chloroform	ug/m3	0	0	0	N/D
Ethyl Benzene	ug/m3	0.24	0.24	1	GM11
Methylene Chloride	ug/m3	0	0	0	N/D
Tetrachloroethene (Tetrachloroethylene)	ug/m3	0	0	0	N/D
Toluene	ug/m3	1	0.34	15	GM11
Trichloroethene (Trichloroethylene)	ug/m3	0.29	0.29	1	GM11
Vinyl chloride	ug/m3	0	0	0	N/D
cis-1,2-Dichloroethene	ug/m3	0	0	0	N/D
o-Xylene	ug/m3	0.37	0.24	8	GM11
trans-1,2-Dichloroethene	ug/m3	0	0	0	N/D
Detects are Highlighted		N/D = Not Detected			

7.3 Indoor Air Sampling

VOCs were detected in each of the indoor air samples collected for this investigation. The maximum and minimum concentrations, the total number of occurrences (samples) of each analyte, and the station location where the maximum concentration was detected are summarized in Chart 3 at the end of this section.

Twelve of the 16 target analytes were detected in the 19 indoor air samples (17 locations plus 2 co-located duplicate samples).

The highest indoor air concentration of benzene was at (b) (6) (GM123). Elevated concentrations of benzene have been detected at this residence during two previous rounds of sampling. The indoor air concentration of benzene for this investigation was 36 ug/m^3 and has decreased since its discovery in May 2016. The indoor air benzene concentrations for the three investigations are listed below.

57 ug/m^3	SESD Project #16-0323, May 2016
48 ug/m^3 and 48 ug/m^3	SESD Project #16-0547, September 2016
36 ug/m^3	SESD Project #17-0050, November 2016

All six of the non-chlorinated analytes were found in the ambient air samples. Toluene and benzene were detected in all 19 indoor air samples collected. Ethylbenzene and (m- and/or p-) xylene were detected in 15 samples, 1,2,4-trimethylbenzene was found in 14 samples, and o-xylene was detected in 17 samples.

Six of the ten chlorinated analytes were detected in the indoor air samples; chloroform was detected in 17 samples and 1,2-dichloroethane was detected in 14 samples. Methylene chloride was detected in one sample, tetrachloroethene (PCE) was detected in 2 samples, trichloroethene (TCE) was detected in one sample and 1,1-dichloroethene was detected in one sample.

Four of the VOC target analytes were not detected in any of the indoor air samples, these were: 1,1,2-trichloroethane, vinyl chloride, cis-1,2-dichloroethene and trans-1,2-dichloroethene.

Chart 3

Indoor Air Maximum and Minimum VOC Concentration Summary

Analyte	Units	Maximum Concentration	Minimun Concentration	Total Occurances	Maximum Concentration Station ID
(m- and/or p-)Xylene	ug/m3	6.5	0.59	15	GM109
1,1,2-Trichloroethane	ug/m3	0	0	0	N/D
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	0.22	0.22	1	GM121
1,2,4-Trimethylbenzene	ug/m3	1.1	0.26	14	GM123
1,2-Dichloroethane	ug/m3	2.5	0.33	14	GM119
Benzene	ug/m3	36	0.39	19	GM123
Chloroform	ug/m3	4.3	0.26	17	GM109
Ethyl Benzene	ug/m3	2.3	0.26	15	GM109
Methylene Chloride	ug/m3	2.1	2.1	1	GM112
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.3	0.36	2	GM113
Toluene	ug/m3	24	1.4	19	GM109
Trichloroethene (Trichloroethylene)	ug/m3	0.29	0.29	1	N/D
Vinyl chloride	ug/m3	0	0	0	N/D
cis-1,2-Dichloroethene	ug/m3	0	0	0	N/D
o-Xylene	ug/m3	1.9	0.22	17	GM110
trans-1,2-Dichloroethene	ug/m3	0	0	0	N/D

Detects are Highlighted N/D = Not Detected

7.4 Landfill Ambient Air Sampling

The three additional ambient air sampling stations added to this investigation in the old landfill area had the highest concentrations of chlorinated analytes in the ambient air for this investigation. The sample collected at the North Landfill Ambient Air Ambient Location (GM18), started on November 29, 2016, had the highest concentration of trichloroethene. In addition, this location had the only detection of ethyl benzene, chloroform, methylene chloride and vinyl chloride. These concentrations were possibly biased low by the high winds that could have diluted the ambient concentrations. In addition, the heavy rain may have also reduced the concentrations of the VOC target analytes in the ambient air. The heavy rain and high winds caused rainwater to enter the samplers at the South Landfill Ambient Air Location (GM19) and the North Landfill Ambient Air Location (GM18) on the second day of sampling in sufficient quantity to stop the air flow into the canister, thus voiding the sample.

The landfill ambient air sampling results are presented with the residential ambient air sampling results in Tables 24 to 26. The Ambient Air Monitoring Locations are arranged from west to east. This was done to demonstrate any change in concentration in the ambient air based on wind direction. This concentration gradient can be seen best on the third day of sampling, when the winds were mainly from the west to southwest at 0.1 miles per hour (mph) to 4.5 mph with gusts up to 13 mph.

VOCs were detected in each of the landfill ambient air samples collected for this investigation. The maximum and minimum concentrations, the total number of occurrences (samples) of each analyte, and the station location where the maximum concentration was detected are summarized in Chart 4 at the end of this section.

Eleven of the 16 VOC target analytes were detected in the seven ambient air samples (3 locations for three days minus two void samples).

All six of the non-chlorinated analytes were found in the landfill ambient air samples. Toluene and benzene were detected in all seven landfill air samples collected. 1,2,4-trimethylbenzene and (m- and/or p-) xylene were detected in five samples. Ethyl benzene was found in one sample and o-xylene was detected in four samples.

Five of the seven chlorinated analytes were detected in the ambient air samples; chloroform and methylene chloride were detected in one sample. Trichloroethene (TCE) was detected in four samples. Vinyl chloride was detected in one sample, and cis-1,2-dichloroethene was detected in three samples.

Five VOC target analytes were not detected in any of the ambient air samples; these were: 1,1,2-trichloroethane, 1,1-dichloroethene, 1,2-dichloroethane, tetrachloroethene (PCE), and trans-1,2-dichloroethene.

Chart 4					
Landfill Ambient Air Maximum and Minimum VOC Concentration Summary					
Analyte	Units	Maximum Concentration	Minimun Concentration	Total Occurances	Maximum Concentration Station ID
(m- and/or p-)Xylene	ug/m3	0.96	0.55	5	GM18
1,1,2-Trichloroethane	ug/m3	0	0	0	N/D
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	0	0	0	N/D
1,2,4-Trimethylbenzene	ug/m3	1.8	0.35	5	GM19
1,2-Dichloroethane	ug/m3	0	0	0	N/D
Benzene	ug/m3	0.68	0.32	7	GM18
Chloroform	ug/m3	3.2	3.2	1	GM18
Ethyl Benzene	ug/m3	0.27	0.27	1	GM18
Methylene Chloride	ug/m3	3.5	3.5	1	GM18
Tetrachloroethene (Tetrachloroethylene)	ug/m3	0	0	0	N/D
Toluene	ug/m3	1.1	0.42	7	GM18
Trichloroethene (Trichloroethylene)	ug/m3	2.8	0.3	4	GM18
Vinyl chloride	ug/m3	0.82	0.82	1	GM18
cis-1,2-Dichloroethene	ug/m3	0.42	0.21	3	GM18
o-Xylene	ug/m3	0.55	0.27	4	GM18
trans-1,2-Dichloroethene	ug/m3	0	0	0	N/D
Detects are Highlighted		N/D = Not Detected			

8.0 References

1. Arcadis, DRAFT Report. *Summary of Residential Air Sapling Analytical Results, Grenada Manufacturing Facility, Grenada, MS.* September 2015.
2. EPA Region 4 SESD ASB. *SESD Analytical Support Branch Laboratory Operations and Quality Assurance Manual*, April 2016.
3. USEPA. *EPA Compendium Method TO-15, Determination Of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*, January 1999.
4. EPA Region 4 SESD. *Field Branches Quality System and Technical Procedures (Latest Versions).* http://www.epa.gov/region4/sesd/fbqstp/. Webpage last updated November 7, 2016.
5. USEPA. *Quality Assurance Project Plan for Grenada Manufacturing Ambient Air Sampling Event SESD Project #17-0050.* November 2016.
6. USEPA. *Regional Screening Levels Summary Table – November 2015.* https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-november-2015. Webpage last updated January 9, 2017.

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Appendix A

Figures

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Figure 1 - Sample Locations
Grenada Manufacturing Site
Formerly Rockwell International Wheel and Trim
SESD Project # 17-0050
US EPA SESD
Field Services Branch
980 College Station Road
Athens, GA 30605
Ambient Air Stations
Subslab IndoorAir Stations
MET Station
Past Equalization Pond
Current Stormwater Retention
Canadian National
Site
Lyon Dr
Tallahoma
Rockwell Cir
Pittsburg Cir
GM01
GM07
GM08
GM09
GM10
GM11
GM12
GM13
GM107
GM108
GM109
GM110
GM111
GM112
GM113
GM114
GM115
GM116
GM117
GM118
GM119
GM120
GM121
GM122
GM123
GM124
0
75
150
300 Feet
N

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Figure 2 - Additional Ambient Locations
Grenada Manufacturing Site
Formerly Rockwell International Wheel and Trim
SESD Project # 17-0050
US EPA SESD
Field Services Branch
980 College Station Road
Athens, GA 30605
EPA
Ambient Air Stations
MET Station
N
0
200
400
800 Feet
Neighborhood
Lyon Dr
Kennedy Cir
Tallahoma Dr
GM11
GM12
GM13
GM01
MS-332
332
Past Equalization Pond
Current Stormwater Retention
Site
Old Landfill Location
Ditch
GM02
Canadian National
GM18
GM19
Riverdale Creek

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Appendix B

Tables

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Table 1 – Station and Sample Information

Station ID	Sample ID	Location/Address	Latitude*	Longitude*	Matrix
GM01	GM01AA0516	South ambient air location	33.80506895	-89.80015824	Residential Ambient Air
GM11	GM11AA0516	West ambient air location	33.80636768	-89.80076134	
GM12	GM12AA0516	North ambient air location	33.80595308	-89.79941396	
GM13	GM13AA0516	East ambient air location	33.80511017	-89.79804096	
GM02	GM02AA0516	Old Water Treatment Plant	33.805195	-89.802452	Ambient Air
GM18	GM18AA0516	North Landfill	33.80647398	-89.80506815	Ambient Air
GM19	GM19AA0516	South Landfill	33.80430876	-89.80639562	Ambient Air
GM107	GM107SS0516	(b) (6)	33.80507488	-89.79958934	Subslab Soil Gas
	GM107IA0516				Indoor Air
GM108	GM108SS0516		33.80495638	-89.79941821	Subslab Soil Gas
	GM108IA0516				Indoor Air
GM109	GM109SS0516		33.80515783	-89.79911873	Subslab Soil Gas
	GM109IA0516				Indoor Air
GM110	GM110SS0516		33.80500378	-89.79898326	Subslab Soil Gas
	GM110IA0516				Indoor Air
GM111	GM111SS0516		33.80490898	-89.79866952	Subslab Soil Gas
	GM111IA0516				Indoor Air
GM112	GM112SS0516		33.80503933	-89.79845561	Subslab Soil Gas
	GM112IA0516				Indoor Air
GM113	GM113SS0516		33.8052704	-89.79844848	Subslab Soil Gas
	GM113IA0516				Indoor Air
GM114	GM114SS0516		33.80540075	-89.79862674	Subslab Soil Gas
	GM114IA0516				Indoor Air
GM115	GM115SS0516		33.80551924	-89.79876935	Subslab Soil Gas
	GM115IA0516				Indoor Air
GM116	GM116IA0516		33.80578586	-89.79914013	Subslab Soil Gas
	GM116SS0516				Indoor Air
GM117	GM117SS0516		33.80558442	-89.79930412	Subslab Soil Gas
	GM117IA0516				Indoor Air
GM118	GM118SS0516		33.80544222	-89.79945386	Subslab Soil Gas
	GM118IA0516				Indoor Air
GM119	GM119SS0516		33.80573846	-89.79997438	Subslab Soil Gas
	GM119IA0516				Indoor Air
GM120	GM1020SS0516		33.80590436	-89.79983177	Subslab Soil Gas
	GM120IA0516				Indoor Air
GM121	GM121SS0516		33.8060584	-89.7996963	Subslab Soil Gas
	GM121IA0516				Indoor Air
GM122	GM122SS0516		33.80594583	-89.80039507	Subslab Soil Gas
	GM122IA0516				Indoor Air
GM123	GM123SS0516		33.80607618	-89.80064464	Subslab Soil Gas
	GM123IA0516				Indoor Air

* Latitudes and Longitudes for indoor air and sub-slab soil gas samples are recorded for the center of the house, the samples may not be taken directly at that spot.

Table 2 – QA/QC Sample Information

Station ID	Sample ID	Location/Address	Latitude*	Longitude*	Matrix
GM01	GM01AA0516D	South ambient air location	33.80506895	-89.80015824	Ambient Air
	GM01AA20516D				
	GM01AA30516D				
GM107	GM107IA0516D	(b) (6)	33.80507488	-89.79958934	Indoor Air
	GM107SS0516S				Subslab Soil Gas
GM117	GM117IA0516D	(b) (6)	33.80495638	-89.79941821	Indoor Air
	GM117SSD0516S				Subslab Soil Gas
#R4DART#	GMTBA0116	-	-	-	Trip Blank Air
#R4DART#	GMTBB0116	-	-	-	Trip Blank Air
#R4DART#	GMTBC0116	-	-	-	Trip Blank Air

* Latitudes and Longitudes for indoor air and sub-slab soil gas samples are recorded for the center of the house, the samples may not be taken directly at that spot.

Table 3 – VOC Analyte List

Constituent	Air Minimum Detection Limit (MDLs)* (µg/m^3)
Benzene	0.067
Chloroform	0.10
Dichloroethane, 1,2-	0.11
Dichloroethene, 1,1-	0.078
Dichloroethene, cis-1,2-	0.083
Dichloroethene, trans-1,2-	0.087
Ethylbenzene	0.092
Methylene chloride	0.077
Tetrachloroethene	0.14
Toluene	0.08
Trichloroethane, 1,1,2-	0.12
Trichloroethene	0.11
Trimethylbenzene, 1,2,4-	0.11
Vinyl chloride	0.053
(m- and/or p-) Xylene	0.19
o-Xylenes	0.093

***** Detection limits are based on the analytical methods and instrumentation used by SESD Analytical Support Branch (ASB)

TABLE 4

[redacted]

Sample Station GM111
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
November 2016

Location		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]	
Station ID		GM12		GM01				GM13		GM11		GM111	
Sample ID		GM12AA1116	GM12AA21116	GM01AA1116	GM01AA1116D	GM01AA21116	GM01AA21116D	GM13AA1116	GM13AA21116	GM11AA1116	GM11AA21116	GM111IA1116	GM111SS1116
Matrix		Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Indoor Air	Soil Gas
Sample Date		11/29/2016 8:00	11/30/2016 8:05	11/29/2016 7:44	11/29/2016 7:44	11/30/2016 7:40	11/30/2016 7:40	11/29/2016 8:08	11/30/2016 8:15	11/29/2016 7:50	11/30/2016 7:51	11/29/2016 10:22	11/29/2016 9:43
Analyte	Units												
(m- and/or p-)Xylene	ug/m3	4.6 U	0.49 J,O	4.4 U	4.4 U	0.60 J,O	0.49 J,O	4.7 U	4.1 U	4.6 U	0.59 J,O	0.61 J,O	4.3 U
1,1,2-Trichloroethane	ug/m3	2.9 U	2.8 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.5 U	2.9 U	2.8 U	3.1 U	2.7 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	2.0 U	1.7 U	1.9 U	1.9 U	2.1 U	1.8 U
1,2,4-Trimethylbenzene	ug/m3	2.6 U	0.38 J,O	2.5 U	2.5 U	0.39 J,O	0.35 J,O	2.6 U	0.24 J,O	2.6 U	0.43 J,O	0.31 J,O	2.4 U
1,2-Dichloroethane	ug/m3	2.1 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	2.1 U	1.8 U	2.1 U	2.0 U	0.33 J,O	1.9 U
Benzene	ug/m3	0.30 J,O	0.50 J,O	0.31 J,O	0.31 J,O	0.52 J,O	0.47 J,O	0.31 J,O	0.44 J,O	0.30 J,O	0.52 J,O	0.85 J,O	1.6 U
Chloroform	ug/m3	2.5 U	2.4 U	2.4 U	2.4 U	2.3 U	2.3 U	2.5 U	2.2 U	2.5 U	2.5 U	1.5 J,O	2.3 U
Ethyl Benzene	ug/m3	2.3 U	2.2 U	2.2 U	2.2 U	2.1 U	2.1 U	2.3 U	2.0 U	2.3 U	2.2 U	0.27 J,O	2.1 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U	1.6 U	1.6 U	1.8 U	1.5 U	1.7 U	1.7 U	1.9 U	1.6 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.5 U	3.4 U	3.4 U	3.4 U	3.2 U	3.3 U	3.6 U	3.1 U	3.5 U	3.5 U	3.8 U	3.3 U
Toluene	ug/m3	0.41 J,O	0.77 J,O	0.40 J,O	0.36 J,O	0.85 J,O	0.74 J,O	0.34 J,O	0.51 J,O	0.43 J,O	0.85 J,O	3.7	1.8 U
Trichloroethene (Trichloroethylene)	ug/m3	2.8 U	2.7 U	2.7 U	2.7 U	2.5 U	2.6 U	2.8 U	2.5 U	2.8 U	2.8 U	3.0 U	2.6 U
Vinyl chloride	ug/m3	1.3 U	1.3 U	1.3 U	1.3 U	1.2 U	1.2 U	1.3 U	1.2 U	1.3 U	1.3 U	1.4 U	1.2 U
cis-1,2-Dichloroethene	ug/m3	2.1 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	2.1 U	1.8 U	2.1 U	2.0 U	2.2 U	1.9 U
o-Xylene	ug/m3	2.3 U	0.25 J,O	2.2 U	2.2 U	0.27 J,O	0.24 J,O	2.3 U	2.0 U	2.3 U	0.30 J,O	0.30 J,O	2.2 U
trans-1,2-Dichloroethene	ug/m3	2.2 U	2.1 U	2.1 U	2.1 U	2.0 U	2.0 U	2.2 U	1.9 U	2.2 U	2.1 U	2.3 U	2.0 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 5

[redacted]

Sample Station GM114
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
November 2016

Location		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]	
Station ID		GM12		GM01				GM13		GM11		GM114	
Sample ID		GM12AA1116	GM12AA21116	GM01AA1116	GM01AA1116D	GM01AA21116	GM01AA21116D	GM13AA1116	GM13AA21116	GM11AA1116	GM11AA21116	GM114IA1116	GM114SS1116
Matrix		Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Indoor Air	Soil Gas
Sample Date		11/29/2016 8:00	11/30/2016 8:05	11/29/2016 7:44	11/29/2016 7:44	11/30/2016 7:40	11/30/2016 7:40	11/29/2016 8:08	11/30/2016 8:15	11/29/2016 7:50	11/30/2016 7:51	11/29/2016 11:04	11/29/2016 10:20
Analyte	Units												
(m- and/or p-)Xylene	ug/m3	4.6 U	0.49 J,O	4.4 U	4.4 U	0.60 J,O	0.49 J,O	4.7 U	4.1 U	4.6 U	0.59 J,O	4.8 U	3.9 U
1,1,2-Trichloroethane	ug/m3	2.9 U	2.8 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.5 U	2.9 U	2.8 U	3.0 U	2.5 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	2.0 U	1.7 U	1.9 U	1.9 U	2.0 U	1.7 U
1,2,4-Trimethylbenzene	ug/m3	2.6 U	0.38 J,O	2.5 U	2.5 U	0.39 J,O	0.35 J,O	2.6 U	0.24 J,O	2.6 U	0.43 J,O	2.7 U	2.2 U
1,2-Dichloroethane	ug/m3	2.1 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	2.1 U	1.8 U	2.1 U	2.0 U	2.1 U	1.8 U
Benzene	ug/m3	0.30 J,O	0.50 J,O	0.31 J,O	0.31 J,O	0.52 J,O	0.47 J,O	0.31 J,O	0.44 J,O	0.30 J,O	0.52 J,O	1.1 J,O	1.4 U
Chloroform	ug/m3	2.5 U	2.4 U	2.4 U	2.4 U	2.3 U	2.3 U	2.5 U	2.2 U	2.5 U	2.5 U	2.6 U	2.1 U
Ethyl Benzene	ug/m3	2.3 U	2.2 U	2.2 U	2.2 U	2.1 U	2.1 U	2.3 U	2.0 U	2.3 U	2.2 U	2.4 U	2.0 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U	1.6 U	1.6 U	1.8 U	1.5 U	1.7 U	1.7 U	1.8 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.5 U	3.4 U	3.4 U	3.4 U	3.2 U	3.3 U	3.6 U	3.1 U	3.5 U	3.5 U	3.7 U	3.0 U
Toluene	ug/m3	0.41 J,O	0.77 J,O	0.40 J,O	0.36 J,O	0.85 J,O	0.74 J,O	0.34 J,O	0.51 J,O	0.43 J,O	0.85 J,O	4.4	1.7 U
Trichloroethene (Trichloroethylene)	ug/m3	2.8 U	2.7 U	2.7 U	2.7 U	2.5 U	2.6 U	2.8 U	2.5 U	2.8 U	2.8 U	2.9 U	2.4 U
Vinyl chloride	ug/m3	1.3 U	1.3 U	1.3 U	1.3 U	1.2 U	1.2 U	1.3 U	1.2 U	1.3 U	1.3 U	1.4 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	2.1 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	2.1 U	1.8 U	2.1 U	2.0 U	2.1 U	1.8 U
o-Xylene	ug/m3	2.3 U	0.25 J,O	2.2 U	2.2 U	0.27 J,O	0.24 J,O	2.3 U	2.0 U	2.3 U	0.30 J,O	2.4 U	2.0 U
trans-1,2-Dichloroethene	ug/m3	2.2 U	2.1 U	2.1 U	2.1 U	2.0 U	2.0 U	2.2 U	1.9 U	2.2 U	2.1 U	2.2 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 6

(b) (6) [redacted]

Sample Station GM107
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
November 2016

Location		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]			
Station ID		GM12		GM01				GM13		GM11		GM107			
Sample ID		GM12AA1116	GM12AA21116	GM01AA1116	GM01AA1116D	GM01AA21116	GM01AA21116D	GM13AA1116	GM13AA21116	GM11AA1116	GM11AA21116	GM107IA1116	GM107IA1116D	GM107SS1116	GM107SS1116S
Matrix		Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Indoor Air		Soil Gas	
Sample Date		11/29/2016 8:00	11/30/2016 8:05	11/29/2016 7:44	11/29/2016 7:44	11/30/2016 7:40	11/30/2016 7:40	11/29/2016 8:08	11/30/2016 8:15	11/29/2016 7:50	11/30/2016 7:51	11/29/2016 12:00	11/29/2016 12:00	11/29/2016 11:18	11/29/2016 11:18
Analyte	Units														
(m- and/or p-)Xylene	ug/m3	4.6 U	0.49 J,O	4.4 U	4.4 U	0.60 J,O	0.49 J,O	4.7 U	4.1 U	4.6 U	0.59 J,O	0.70 J,O	0.66 J,O	3.9 U	3.9 U
1,1,2-Trichloroethane	ug/m3	2.9 U	2.8 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.5 U	2.9 U	2.8 U	2.8 U	2.9 U	2.4 U	2.4 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	2.0 U	1.7 U	1.9 U	1.9 U	1.9 U	1.9 U	1.6 U	1.6 U
1,2,4-Trimethylbenzene	ug/m3	2.6 U	0.38 J,O	2.5 U	2.5 U	0.39 J,O	0.35 J,O	2.6 U	0.24 J,O	2.6 U	0.43 J,O	2.5 U	2.6 U	2.2 U	2.2 U
1,2-Dichloroethane	ug/m3	2.1 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	2.1 U	1.8 U	2.1 U	2.0 U	0.45 J,O	0.46 J,O	1.7 U	1.7 U
Benzene	ug/m3	0.30 J,O	0.50 J,O	0.31 J,O	0.31 J,O	0.52 J,O	0.47 J,O	0.31 J,O	0.44 J,O	0.30 J,O	0.52 J,O	0.56 J,O	0.57 J,O	1.4 U	1.4 U
Chloroform	ug/m3	2.5 U	2.4 U	2.4 U	2.4 U	2.3 U	2.3 U	2.5 U	2.2 U	2.5 U	2.5 U	0.61 J,O	0.63 J,O	2.1 U	2.1 U
Ethyl Benzene	ug/m3	2.3 U	2.2 U	2.2 U	2.2 U	2.1 U	2.1 U	2.3 U	2.0 U	2.3 U	2.2 U	0.26 J,O	0.27 J,O	1.9 U	1.9 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U	1.6 U	1.6 U	1.8 U	1.5 U	1.7 U	1.7 U	1.7 U	1.7 U	1.5 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.5 U	3.4 U	3.4 U	3.4 U	3.2 U	3.3 U	3.6 U	3.1 U	3.5 U	3.5 U	3.4 U	3.5 U	2.9 U	2.9 U
Toluene	ug/m3	0.41 J,O	0.77 J,O	0.40 J,O	0.36 J,O	0.85 J,O	0.74 J,O	0.34 J,O	0.51 J,O	0.43 J,O	0.85 J,O	6.2	6.3	1.7 U	1.7 U
Trichloroethene (Trichloroethylene)	ug/m3	2.8 U	2.7 U	2.7 U	2.7 U	2.5 U	2.6 U	2.8 U	2.5 U	2.8 U	2.8 U	2.7 U	2.8 U	2.3 U	2.3 U
Vinyl chloride	ug/m3	1.3 U	1.3 U	1.3 U	1.3 U	1.2 U	1.2 U	1.3 U	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.1 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	2.1 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	2.1 U	1.8 U	2.1 U	2.0 U	2.0 U	2.1 U	1.7 U	1.7 U
o-Xylene	ug/m3	2.3 U	0.25 J,O	2.2 U	2.2 U	0.27 J,O	0.24 J,O	2.3 U	2.0 U	2.3 U	0.30 J,O	0.29 J,O	0.30 J,O	1.9 U	1.9 U
trans-1,2-Dichloroethene	ug/m3	2.2 U	2.1 U	2.1 U	2.1 U	2.0 U	2.0 U	2.2 U	1.9 U	2.2 U	2.1 U	2.1 U	2.2 U	1.8 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 7

[redacted]

Sample Station GM110
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
November 2016

Location		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]	
Station ID		GM12		GM01				GM13		GM11		GM110	
Sample ID		GM12AA1116	GM12AA21116	GM01AA1116	GM01AA1116D	GM01AA21116	GM01AA21116D	GM13AA1116	GM13AA21116	GM11AA1116	GM11AA21116	GM110IA1116	GM110SS1116
Matrix		Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Indoor Air	Soil Gas
Sample Date		11/29/2016 8:00	11/30/2016 8:05	11/29/2016 7:44	11/29/2016 7:44	11/30/2016 7:40	11/30/2016 7:40	11/29/2016 8:08	11/30/2016 8:15	11/29/2016 7:50	11/30/2016 7:51	11/29/2016 14:27	11/29/2016 13:42
Analyte	Units												
(m- and/or p-)Xylene	ug/m3	4.6 U	0.49 J,O	4.4 U	4.4 U	0.60 J,O	0.49 J,O	4.7 U	4.1 U	4.6 U	0.59 J,O	4.4 J,O	3.8 U
1,1,2-Trichloroethane	ug/m3	2.9 U	2.8 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.5 U	2.9 U	2.8 U	2.8 U	2.4 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	2.0 U	1.7 U	1.9 U	1.9 U	1.9 U	1.6 U
1,2,4-Trimethylbenzene	ug/m3	2.6 U	0.38 J,O	2.5 U	2.5 U	0.39 J,O	0.35 J,O	2.6 U	0.24 J,O	2.6 U	0.43 J,O	0.42 J,O	2.2 U
1,2-Dichloroethane	ug/m3	2.1 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	2.1 U	1.8 U	2.1 U	2.0 U	0.93 J,O	1.7 U
Benzene	ug/m3	0.30 J,O	0.50 J,O	0.31 J,O	0.31 J,O	0.52 J,O	0.47 J,O	0.31 J,O	0.44 J,O	0.30 J,O	0.52 J,O	1.2 J,O	1.4 U
Chloroform	ug/m3	2.5 U	2.4 U	2.4 U	2.4 U	2.3 U	2.3 U	2.5 U	2.2 U	2.5 U	2.5 U	0.39 J,O	0.28 J,O
Ethyl Benzene	ug/m3	2.3 U	2.2 U	2.2 U	2.2 U	2.1 U	2.1 U	2.3 U	2.0 U	2.3 U	2.2 U	2.0 J,O	1.9 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U	1.6 U	1.6 U	1.8 U	1.5 U	1.7 U	1.7 U	1.7 U	1.4 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.5 U	3.4 U	3.4 U	3.4 U	3.2 U	3.3 U	3.6 U	3.1 U	3.5 U	3.5 U	0.36 J,O	0.46 J,O
Toluene	ug/m3	0.41 J,O	0.77 J,O	0.40 J,O	0.36 J,O	0.85 J,O	0.74 J,O	0.34 J,O	0.51 J,O	0.43 J,O	0.85 J,O	8.0	1.6 U
Trichloroethene (Trichloroethylene)	ug/m3	2.8 U	2.7 U	2.7 U	2.7 U	2.5 U	2.6 U	2.8 U	2.5 U	2.8 U	2.8 U	2.7 U	2.3 U
Vinyl chloride	ug/m3	1.3 U	1.3 U	1.3 U	1.3 U	1.2 U	1.2 U	1.3 U	1.2 U	1.3 U	1.3 U	1.3 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	2.1 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	2.1 U	1.8 U	2.1 U	2.0 U	2.0 U	1.7 U
o-Xylene	ug/m3	2.3 U	0.25 J,O	2.2 U	2.2 U	0.27 J,O	0.24 J,O	2.3 U	2.0 U	2.3 U	0.30 J,O	1.9 J,O	1.9 U
trans-1,2-Dichloroethene	ug/m3	2.2 U	2.1 U	2.1 U	2.1 U	2.0 U	2.0 U	2.2 U	1.9 U	2.2 U	2.1 U	2.1 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 8

(b) (6) [redacted]

Sample Station GM112
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
November 2016

Location		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]	
Station ID		GM12		GM01				GM13		GM11		GM112	
Sample ID		GM12AA1116	GM12AA21116	GM01AA1116	GM01AA1116D	GM01AA21116	GM01AA21116D	GM13AA1116	GM13AA21116	GM11AA1116	GM11AA21116	GM112IA1116	GM112SS1116
Matrix		Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Indoor Air	Soil Gas
Sample Date		11/29/2016 8:00	11/30/2016 8:05	11/29/2016 7:44	11/29/2016 7:44	11/30/2016 7:40	11/30/2016 7:40	11/29/2016 8:08	11/30/2016 8:15	11/29/2016 7:50	11/30/2016 7:51	11/29/2016 14:53	11/29/2016 14:12
Analyte	Units												
(m- and/or p-)Xylene	ug/m3	4.6 U	0.49 J,O	4.4 U	4.4 U	0.60 J,O	0.49 J,O	4.7 U	4.1 U	4.6 U	0.59 J,O	0.69 J,O	4.0 U
1,1,2-Trichloroethane	ug/m3	2.9 U	2.8 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.5 U	2.9 U	2.8 U	3.0 U	2.5 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	2.0 U	1.7 U	1.9 U	1.9 U	2.0 U	1.7 U
1,2,4-Trimethylbenzene	ug/m3	2.6 U	0.38 J,O	2.5 U	2.5 U	0.39 J,O	0.35 J,O	2.6 U	0.24 J,O	2.6 U	0.43 J,O	2.7 U	2.2 U
1,2-Dichloroethane	ug/m3	2.1 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	2.1 U	1.8 U	2.1 U	2.0 U	0.37 J,O	1.8 U
Benzene	ug/m3	0.30 J,O	0.50 J,O	0.31 J,O	0.31 J,O	0.52 J,O	0.47 J,O	0.31 J,O	0.44 J,O	0.30 J,O	0.52 J,O	1.0 J,O	1.4 U
Chloroform	ug/m3	2.5 U	2.4 U	2.4 U	2.4 U	2.3 U	2.3 U	2.5 U	2.2 U	2.5 U	2.5 U	3.2	2.2 U
Ethyl Benzene	ug/m3	2.3 U	2.2 U	2.2 U	2.2 U	2.1 U	2.1 U	2.3 U	2.0 U	2.3 U	2.2 U	0.26 J,O	2.0 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U	1.6 U	1.6 U	1.8 U	1.5 U	1.7 U	1.7 U	2.1	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.5 U	3.4 U	3.4 U	3.4 U	3.2 U	3.3 U	3.6 U	3.1 U	3.5 U	3.5 U	3.7 U	0.53 J,O
Toluene	ug/m3	0.41 J,O	0.77 J,O	0.40 J,O	0.36 J,O	0.85 J,O	0.74 J,O	0.34 J,O	0.51 J,O	0.43 J,O	0.85 J,O	4.7	1.7 U
Trichloroethene (Trichloroethylene)	ug/m3	2.8 U	2.7 U	2.7 U	2.7 U	2.5 U	2.6 U	2.8 U	2.5 U	2.8 U	2.8 U	2.9 U	2.4 U
Vinyl chloride	ug/m3	1.3 U	1.3 U	1.3 U	1.3 U	1.2 U	1.2 U	1.3 U	1.2 U	1.3 U	1.3 U	1.4 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	2.1 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	2.1 U	1.8 U	2.1 U	2.0 U	2.1 U	1.8 U
o-Xylene	ug/m3	2.3 U	0.25 J,O	2.2 U	2.2 U	0.27 J,O	0.24 J,O	2.3 U	2.0 U	2.3 U	0.30 J,O	0.32 J,O	2.0 U
trans-1,2-Dichloroethene	ug/m3	2.2 U	2.1 U	2.1 U	2.1 U	2.0 U	2.0 U	2.2 U	1.9 U	2.2 U	2.1 U	2.2 U	1.9 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 9

(b) (6) [redacted]

Sample Station GM113
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
November 2016

Location		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]	
Station ID		GM12		GM01				GM13		GM11		GM113	
Sample ID		GM12AA1116	GM12AA21116	GM01AA1116	GM01AA1116D	GM01AA21116	GM01AA21116D	GM13AA1116	GM13AA21116	GM11AA1116	GM11AA21116	GM113IA1116	GM113SS1116
Matrix		Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Indoor Air	Soil Gas
Sample Date		11/29/2016 8:00	11/30/2016 8:05	11/29/2016 7:44	11/29/2016 7:44	11/30/2016 7:40	11/30/2016 7:40	11/29/2016 8:08	11/30/2016 8:15	11/29/2016 7:50	11/30/2016 7:51	11/29/2016 16:00	11/29/2016 15:15
Analyte	Units												
(m- and/or p-)Xylene	ug/m3	4.6 U	0.49 J,O	4.4 U	4.4 U	0.60 J,O	0.49 J,O	4.7 U	4.1 U	4.6 U	0.59 J,O	0.59 J,O	3.8 U
1,1,2-Trichloroethane	ug/m3	2.9 U	2.8 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.5 U	2.9 U	2.8 U	2.7 U	2.4 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	2.0 U	1.7 U	1.9 U	1.9 U	1.8 U	1.6 U
1,2,4-Trimethylbenzene	ug/m3	2.6 U	0.38 J,O	2.5 U	2.5 U	0.39 J,O	0.35 J,O	2.6 U	0.24 J,O	2.6 U	0.43 J,O	0.31 J,O	2.2 U
1,2-Dichloroethane	ug/m3	2.1 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	2.1 U	1.8 U	2.1 U	2.0 U	0.60 J,O	1.7 U
Benzene	ug/m3	0.30 J,O	0.50 J,O	0.31 J,O	0.31 J,O	0.52 J,O	0.47 J,O	0.31 J,O	0.44 J,O	0.30 J,O	0.52 J,O	0.39 J,O	1.4 U
Chloroform	ug/m3	2.5 U	2.4 U	2.4 U	2.4 U	2.3 U	2.3 U	2.5 U	2.2 U	2.5 U	2.5 U	0.52 J,O	15
Ethyl Benzene	ug/m3	2.3 U	2.2 U	2.2 U	2.2 U	2.1 U	2.1 U	2.3 U	2.0 U	2.3 U	2.2 U	2.2 U	1.9 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U	1.6 U	1.6 U	1.8 U	1.5 U	1.7 U	1.7 U	1.7 U	1.4 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.5 U	3.4 U	3.4 U	3.4 U	3.2 U	3.3 U	3.6 U	3.1 U	3.5 U	3.5 U	3.3 U	0.62 J,O
Toluene	ug/m3	0.41 J,O	0.77 J,O	0.40 J,O	0.36 J,O	0.85 J,O	0.74 J,O	0.34 J,O	0.51 J,O	0.43 J,O	0.85 J,O	2.7	1.6 U
Trichloroethene (Trichloroethylene)	ug/m3	2.8 U	2.7 U	2.7 U	2.7 U	2.5 U	2.6 U	2.8 U	2.5 U	2.8 U	2.8 U	2.7 U	0.29 J,O
Vinyl chloride	ug/m3	1.3 U	1.3 U	1.3 U	1.3 U	1.2 U	1.2 U	1.3 U	1.2 U	1.3 U	1.3 U	1.3 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	2.1 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	2.1 U	1.8 U	2.1 U	2.0 U	2.0 U	1.7 U
o-Xylene	ug/m3	2.3 U	0.25 J,O	2.2 U	2.2 U	0.27 J,O	0.24 J,O	2.3 U	2.0 U	2.3 U	0.30 J,O	0.22 J,O	1.9 U
trans-1,2-Dichloroethene	ug/m3	2.2 U	2.1 U	2.1 U	2.1 U	2.0 U	2.0 U	2.2 U	1.9 U	2.2 U	2.1 U	2.1 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
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J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 10

(b) (6) [redacted]

Sample Station GM121
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
November 2016

Location		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]	
Station ID		GM12		GM01				GM13		GM11		GM121	
Sample ID		GM12AA1116	GM12AA21116	GM01AA1116	GM01AA1116D	GM01AA21116	GM01AA21116D	GM13AA1116	GM13AA21116	GM11AA1116	GM11AA21116	GM121IA1116	GM121SS1116
Matrix		Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Indoor Air	Soil Gas
Sample Date		11/29/2016 8:00	11/30/2016 8:05	11/29/2016 7:44	11/29/2016 7:44	11/30/2016 7:40	11/30/2016 7:40	11/29/2016 8:08	11/30/2016 8:15	11/29/2016 7:50	11/30/2016 7:51	11/29/2016 16:50	11/29/2016 16:05
Analyte	Units												
(m- and/or p-)Xylene	ug/m3	4.6 U	0.49 J,O	4.4 U	4.4 U	0.60 J,O	0.49 J,O	4.7 U	4.1 U	4.6 U	0.59 J,O	0.88 J,O	3.9 U
1,1,2-Trichloroethane	ug/m3	2.9 U	2.8 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.5 U	2.9 U	2.8 U	3.0 U	2.4 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	2.0 U	1.7 U	1.9 U	1.9 U	0.22 J,O	1.6 U
1,2,4-Trimethylbenzene	ug/m3	2.6 U	0.38 J,O	2.5 U	2.5 U	0.39 J,O	0.35 J,O	2.6 U	0.24 J,O	2.6 U	0.43 J,O	0.73 J,O	2.2 U
1,2-Dichloroethane	ug/m3	2.1 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	2.1 U	1.8 U	2.1 U	2.0 U	2.1 U	1.7 U
Benzene	ug/m3	0.30 J,O	0.50 J,O	0.31 J,O	0.31 J,O	0.52 J,O	0.47 J,O	0.31 J,O	0.44 J,O	0.30 J,O	0.52 J,O	0.60 J,O	1.4 U
Chloroform	ug/m3	2.5 U	2.4 U	2.4 U	2.4 U	2.3 U	2.3 U	2.5 U	2.2 U	2.5 U	2.5 U	0.33 J,O	1.5 J,O
Ethyl Benzene	ug/m3	2.3 U	2.2 U	2.2 U	2.2 U	2.1 U	2.1 U	2.3 U	2.0 U	2.3 U	2.2 U	0.32 J,O	1.9 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U	1.6 U	1.6 U	1.8 U	1.5 U	1.7 U	1.7 U	1.8 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.5 U	3.4 U	3.4 U	3.4 U	3.2 U	3.3 U	3.6 U	3.1 U	3.5 U	3.5 U	3.6 U	2.9 U
Toluene	ug/m3	0.41 J,O	0.77 J,O	0.40 J,O	0.36 J,O	0.85 J,O	0.74 J,O	0.34 J,O	0.51 J,O	0.43 J,O	0.85 J,O	5.8	1.7 U
Trichloroethene (Trichloroethylene)	ug/m3	2.8 U	2.7 U	2.7 U	2.7 U	2.5 U	2.6 U	2.8 U	2.5 U	2.8 U	2.8 U	2.9 U	2.3 U
Vinyl chloride	ug/m3	1.3 U	1.3 U	1.3 U	1.3 U	1.2 U	1.2 U	1.3 U	1.2 U	1.3 U	1.3 U	1.4 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	2.1 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	2.1 U	1.8 U	2.1 U	2.0 U	2.1 U	1.7 U
o-Xylene	ug/m3	2.3 U	0.25 J,O	2.2 U	2.2 U	0.27 J,O	0.24 J,O	2.3 U	2.0 U	2.3 U	0.30 J,O	0.44 J,O	1.9 U
trans-1,2-Dichloroethene	ug/m3	2.2 U	2.1 U	2.1 U	2.1 U	2.0 U	2.0 U	2.2 U	1.9 U	2.2 U	2.1 U	2.2 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 11

(b) (6) [redacted]

Sample Station GM109
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
November 2016

Location		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]	
Station ID		GM12		GM01				GM13		GM11		GM109	
Sample ID		GM12AA1116	GM12AA21116	GM01AA1116	GM01AA1116D	GM01AA21116	GM01AA21116D	GM13AA1116	GM13AA21116	GM11AA1116	GM11AA21116	GM109IA1116	GM109SS1116
Matrix		Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Indoor Air	Soil Gas
Sample Date		11/29/2016 8:00	11/30/2016 8:05	11/29/2016 7:44	11/29/2016 7:44	11/30/2016 7:40	11/30/2016 7:40	11/29/2016 8:08	11/30/2016 8:15	11/29/2016 7:50	11/30/2016 7:51	11/29/2016 17:25	11/29/2016 16:44
Analyte	Units												
(m- and/or p-)Xylene	ug/m3	4.6 U	0.49 J,O	4.4 U	4.4 U	0.60 J,O	0.49 J,O	4.7 U	4.1 U	4.6 U	0.59 J,O	6.5	4.0 U
1,1,2-Trichloroethane	ug/m3	2.9 U	2.8 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.5 U	2.9 U	2.8 U	2.9 U	2.5 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	2.0 U	1.7 U	1.9 U	1.9 U	2.0 U	1.7 U
1,2,4-Trimethylbenzene	ug/m3	2.6 U	0.38 J,O	2.5 U	2.5 U	0.39 J,O	0.35 J,O	2.6 U	0.24 J,O	2.6 U	0.43 J,O	1.1 J,O	2.3 U
1,2-Dichloroethane	ug/m3	2.1 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	2.1 U	1.8 U	2.1 U	2.0 U	0.50 J,O	1.8 U
Benzene	ug/m3	0.30 J,O	0.50 J,O	0.31 J,O	0.31 J,O	0.52 J,O	0.47 J,O	0.31 J,O	0.44 J,O	0.30 J,O	0.52 J,O	8.3	0.25 J,O
Chloroform	ug/m3	2.5 U	2.4 U	2.4 U	2.4 U	2.3 U	2.3 U	2.5 U	2.2 U	2.5 U	2.5 U	4.3	1.5 J,O
Ethyl Benzene	ug/m3	2.3 U	2.2 U	2.2 U	2.2 U	2.1 U	2.1 U	2.3 U	2.0 U	2.3 U	2.2 U	2.3	2.0 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U	1.6 U	1.6 U	1.8 U	1.5 U	1.7 U	1.7 U	1.8 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.5 U	3.4 U	3.4 U	3.4 U	3.2 U	3.3 U	3.6 U	3.1 U	3.5 U	3.5 U	3.6 U	3.1 U
Toluene	ug/m3	0.41 J,O	0.77 J,O	0.40 J,O	0.36 J,O	0.85 J,O	0.74 J,O	0.34 J,O	0.51 J,O	0.43 J,O	0.85 J,O	24	1.7 U
Trichloroethene (Trichloroethylene)	ug/m3	2.8 U	2.7 U	2.7 U	2.7 U	2.5 U	2.6 U	2.8 U	2.5 U	2.8 U	2.8 U	2.8 U	2.5 U
Vinyl chloride	ug/m3	1.3 U	1.3 U	1.3 U	1.3 U	1.2 U	1.2 U	1.3 U	1.2 U	1.3 U	1.3 U	1.3 U	1.2 U
cis-1,2-Dichloroethene	ug/m3	2.1 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	2.1 U	1.8 U	2.1 U	2.0 U	2.1 U	1.8 U
o-Xylene	ug/m3	2.3 U	0.25 J,O	2.2 U	2.2 U	0.27 J,O	0.24 J,O	2.3 U	2.0 U	2.3 U	0.30 J,O	1.5 J,O	2.0 U
trans-1,2-Dichloroethene	ug/m3	2.2 U	2.1 U	2.1 U	2.1 U	2.0 U	2.0 U	2.2 U	1.9 U	2.2 U	2.1 U	2.2 U	1.9 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 12

(b) (6) [redacted]
Sample Station GM119
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
November 2016

Location		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]	
Station ID		GM12		GM01				GM13		GM11		GM119	
Sample ID		GM12AA21116	GM12AA31116	GM01AA21116	GM01AA21116D	GM01AA31116	GM01AA31116D	GM13AA21116	GM13AA31116	GM11AA21116	GM11AA31116	GM119IA1116	GM119SS1116
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		11/30/2016 8:05	12/1/2016 8:00	11/30/2016 7:40	11/30/2016 7:40	12/1/2016 7:45	12/1/2016 7:45	11/30/2016 8:15	12/1/2016 8:10	11/30/2016 7:51	12/1/2016 7:54	11/30/2016 10:14	11/30/2016 9:04
Analyte	Units												
(m- and/or p-)Xylene	ug/m3	0.49 J,O	0.48 J,O	0.60 J,O	0.49 J,O	0.43 J,O	4.5 U	4.1 U	4.0 U	0.59 J,O	0.67 J,O	3.3 J,O	4.3 U
1,1,2-Trichloroethane	ug/m3	2.8 U	2.8 U	2.6 U	2.7 U	2.7 U	2.8 U	2.5 U	2.5 U	2.8 U	2.8 U	2.8 U	2.7 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	1.9 U	1.8 U
1,2,4-Trimethylbenzene	ug/m3	0.38 J,O	0.57 J,O	0.39 J,O	0.35 J,O	0.57 J,O	0.56 J,O	0.24 J,O	0.42 J,O	0.43 J,O	0.71 J,O	0.80 J,O	2.4 U
1,2-Dichloroethane	ug/m3	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.8 U	2.0 U	2.0 U	2.5	1.9 U
Benzene	ug/m3	0.50 J,O	0.49 J,O	0.52 J,O	0.47 J,O	0.47 J,O	0.46 J,O	0.44 J,O	0.41 J,O	0.52 J,O	0.55 J,O	0.64 J,O	0.50 J,O
Chloroform	ug/m3	2.4 U	2.4 U	2.3 U	2.3 U	2.3 U	2.4 U	2.2 U	2.2 U	2.5 U	2.5 U	2.6	0.31 J,O
Ethyl Benzene	ug/m3	2.2 U	2.2 U	2.1 U	2.1 U	2.1 U	2.2 U	2.0 U	2.0 U	2.2 U	0.24 J,O	1.2 J,O	2.1 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.6 U	1.6 U	1.6 U	1.7 U	1.5 U	1.5 U	1.7 U	1.7 U	1.7 U	1.6 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.4 U	3.4 U	3.2 U	3.3 U	3.3 U	3.4 U	3.1 U	3.1 U	3.5 U	3.5 U	3.4 U	3.3 U
Toluene	ug/m3	0.77 J,O	0.72 J,O	0.85 J,O	0.74 J,O	0.72 J,O	0.72 J,O	0.51 J,O	0.54 J,O	0.85 J,O	1.0 J,O	5.3	0.39 J,O
Trichloroethene (Trichloroethylene)	ug/m3	2.7 U	2.7 U	2.5 U	2.6 U	2.6 U	2.7 U	2.5 U	2.5 U	2.8 U	0.29 J,O	2.7 U	2.6 U
Vinyl chloride	ug/m3	1.3 U	1.3 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.3 U	1.3 U	1.3 U	1.2 U
cis-1,2-Dichloroethene	ug/m3	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.8 U	2.0 U	2.0 U	2.0 U	1.9 U
o-Xylene	ug/m3	0.25 J,O	0.26 J,O	0.27 J,O	0.24 J,O	0.24 J,O	0.27 J,O	2.0 U	2.0 U	0.30 J,O	0.37 J,O	0.54 J,O	0.33 J,O
trans-1,2-Dichloroethene	ug/m3	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.1 U	1.9 U	1.9 U	2.1 U	2.1 U	2.1 U	2.0 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 13

(b) (6) [redacted]

Sample Station GM116
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
November 2016

Location		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]	
Station ID		GM12		GM01				GM13		GM11		GM116	
Sample ID		GM12AA21116	GM12AA31116	GM01AA21116	GM01AA21116D	GM01AA31116	GM01AA31116D	GM13AA21116	GM13AA31116	GM11AA21116	GM11AA31116	GM116IA1116	GM116SS1116
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		11/30/2016 8:05	12/1/2016 8:00	11/30/2016 7:40	11/30/2016 7:40	12/1/2016 7:45	12/1/2016 7:45	11/30/2016 8:15	12/1/2016 8:10	11/30/2016 7:51	12/1/2016 7:54	11/30/2016 10:57	11/30/2016 9:57
Analyte	Units												
(m- and/or p-)Xylene	ug/m3	0.49 J,O	0.48 J,O	0.60 J,O	0.49 J,O	0.43 J,O	4.5 U	4.1 U	4.0 U	0.59 J,O	0.67 J,O	1.2 J,O	4.1 U
1,1,2-Trichloroethane	ug/m3	2.8 U	2.8 U	2.6 U	2.7 U	2.7 U	2.8 U	2.5 U	2.5 U	2.8 U	2.8 U	2.7 U	2.6 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	1.8 U	1.7 U
1,2,4-Trimethylbenzene	ug/m3	0.38 J,O	0.57 J,O	0.39 J,O	0.35 J,O	0.57 J,O	0.56 J,O	0.24 J,O	0.42 J,O	0.43 J,O	0.71 J,O	0.76 J,O	0.48 J,O
1,2-Dichloroethane	ug/m3	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.8 U	2.0 U	2.0 U	1.9 U	1.9 U
Benzene	ug/m3	0.50 J,O	0.49 J,O	0.52 J,O	0.47 J,O	0.47 J,O	0.46 J,O	0.44 J,O	0.41 J,O	0.52 J,O	0.55 J,O	1.3 J,O	1.7
Chloroform	ug/m3	2.4 U	2.4 U	2.3 U	2.3 U	2.3 U	2.4 U	2.2 U	2.2 U	2.5 U	2.5 U	1.3 J,O	2.2 U
Ethyl Benzene	ug/m3	2.2 U	2.2 U	2.1 U	2.1 U	2.1 U	2.2 U	2.0 U	2.0 U	2.2 U	0.24 J,O	0.40 J,O	2.0 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.6 U	1.6 U	1.6 U	1.7 U	1.5 U	1.5 U	1.7 U	1.7 U	1.6 U	1.6 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.4 U	3.4 U	3.2 U	3.3 U	3.3 U	3.4 U	3.1 U	3.1 U	3.5 U	3.5 U	3.3 U	0.81 J,O
Toluene	ug/m3	0.77 J,O	0.72 J,O	0.85 J,O	0.74 J,O	0.72 J,O	0.72 J,O	0.51 J,O	0.54 J,O	0.85 J,O	1.0 J,O	4.0	0.78 J,O
Trichloroethene (Trichloroethylene)	ug/m3	2.7 U	2.7 U	2.5 U	2.6 U	2.6 U	2.7 U	2.5 U	2.5 U	2.8 U	0.29 J,O	2.6 U	2.5 U
Vinyl chloride	ug/m3	1.3 U	1.3 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.3 U	1.3 U	1.2 U	1.2 U
cis-1,2-Dichloroethene	ug/m3	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.8 U	2.0 U	2.0 U	1.9 U	1.8 U
o-Xylene	ug/m3	0.25 J,O	0.26 J,O	0.27 J,O	0.24 J,O	0.24 J,O	0.27 J,O	2.0 U	2.0 U	0.30 J,O	0.37 J,O	0.44 J,O	0.24 J,O
trans-1,2-Dichloroethene	ug/m3	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.1 U	1.9 U	1.9 U	2.1 U	2.1 U	2.0 U	1.9 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 14

[redacted]

Sample Station GM108
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
November 2016

Location		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]	
Station ID		GM12		GM01				GM13		GM11		GM108	
Sample ID		GM12AA21116	GM12AA31116	GM01AA21116	GM01AA21116D	GM01AA31116	GM01AA31116D	GM13AA21116	GM13AA31116	GM11AA21116	GM11AA31116	GM108IA1116	GM108SS1116
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		11/30/2016 8:05	12/1/2016 8:00	11/30/2016 7:40	11/30/2016 7:40	12/1/2016 7:45	12/1/2016 7:45	11/30/2016 8:15	12/1/2016 8:10	11/30/2016 7:51	12/1/2016 7:54	11/30/2016 11:37	11/30/2016 10:38
Analyte	Units												
(m- and/or p-)Xylene	ug/m3	0.49 J,O	0.48 J,O	0.60 J,O	0.49 J,O	0.43 J,O	4.5 U	4.1 U	4.0 U	0.59 J,O	0.67 J,O	4.5 U	3.9 U
1,1,2-Trichloroethane	ug/m3	2.8 U	2.8 U	2.6 U	2.7 U	2.7 U	2.8 U	2.5 U	2.5 U	2.8 U	2.8 U	2.8 U	2.5 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	1.9 U	1.7 U
1,2,4-Trimethylbenzene	ug/m3	0.38 J,O	0.57 J,O	0.39 J,O	0.35 J,O	0.57 J,O	0.56 J,O	0.24 J,O	0.42 J,O	0.43 J,O	0.71 J,O	0.26 J,O	2.2 U
1,2-Dichloroethane	ug/m3	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.8 U	2.0 U	2.0 U	0.84 J,O	1.8 U
Benzene	ug/m3	0.50 J,O	0.49 J,O	0.52 J,O	0.47 J,O	0.47 J,O	0.46 J,O	0.44 J,O	0.41 J,O	0.52 J,O	0.55 J,O	0.79 J,O	1.4 U
Chloroform	ug/m3	2.4 U	2.4 U	2.3 U	2.3 U	2.3 U	2.4 U	2.2 U	2.2 U	2.5 U	2.5 U	0.26 J,O	2.1 U
Ethyl Benzene	ug/m3	2.2 U	2.2 U	2.1 U	2.1 U	2.1 U	2.2 U	2.0 U	2.0 U	2.2 U	0.24 J,O	2.2 U	1.9 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.6 U	1.6 U	1.6 U	1.7 U	1.5 U	1.5 U	1.7 U	1.7 U	1.7 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.4 U	3.4 U	3.2 U	3.3 U	3.3 U	3.4 U	3.1 U	3.1 U	3.5 U	3.5 U	3.5 U	0.30 J,O
Toluene	ug/m3	0.77 J,O	0.72 J,O	0.85 J,O	0.74 J,O	0.72 J,O	0.72 J,O	0.51 J,O	0.54 J,O	0.85 J,O	1.0 J,O	6.1	1.7 U
Trichloroethene (Trichloroethylene)	ug/m3	2.7 U	2.7 U	2.5 U	2.6 U	2.6 U	2.7 U	2.5 U	2.5 U	2.8 U	0.29 J,O	0.29 J,O	2.4 U
Vinyl chloride	ug/m3	1.3 U	1.3 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.3 U	1.3 U	1.3 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.8 U	2.0 U	2.0 U	2.0 U	1.8 U
o-Xylene	ug/m3	0.25 J,O	0.26 J,O	0.27 J,O	0.24 J,O	0.24 J,O	0.27 J,O	2.0 U	2.0 U	0.30 J,O	0.37 J,O	0.23 J,O	2.0 U
trans-1,2-Dichloroethene	ug/m3	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.1 U	1.9 U	1.9 U	2.1 U	2.1 U	2.1 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 15

(b) (6) [redacted]

Sample Station GM122
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
November 2016

Location		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]	
Station ID		GM12		GM01				GM13		GM11		GM122	
Sample ID		GM12AA21116	GM12AA31116	GM01AA21116	GM01AA21116D	GM01AA31116	GM01AA31116D	GM13AA21116	GM13AA31116	GM11AA21116	GM11AA31116	GM122IA1116	GM122SS1116
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		11/30/2016 8:05	12/1/2016 8:00	11/30/2016 7:40	11/30/2016 7:40	12/1/2016 7:45	12/1/2016 7:45	11/30/2016 8:15	12/1/2016 8:10	11/30/2016 7:51	12/1/2016 7:54	11/30/2016 12:32	11/30/2016 11:41
Analyte	Units												
(m- and/or p-)Xylene	ug/m3	0.49 J,O	0.48 J,O	0.60 J,O	0.49 J,O	0.43 J,O	4.5 U	4.1 U	4.0 U	0.59 J,O	0.67 J,O	0.96 J,O	4.1 U
1,1,2-Trichloroethane	ug/m3	2.8 U	2.8 U	2.6 U	2.7 U	2.7 U	2.8 U	2.5 U	2.5 U	2.8 U	2.8 U	3.2 U	2.6 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	2.1 U	1.7 U
1,2,4-Trimethylbenzene	ug/m3	0.38 J,O	0.57 J,O	0.39 J,O	0.35 J,O	0.57 J,O	0.56 J,O	0.24 J,O	0.42 J,O	0.43 J,O	0.71 J,O	0.74 J,O	2.3 U
1,2-Dichloroethane	ug/m3	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.8 U	2.0 U	2.0 U	0.40 J,O	1.8 U
Benzene	ug/m3	0.50 J,O	0.49 J,O	0.52 J,O	0.47 J,O	0.47 J,O	0.46 J,O	0.44 J,O	0.41 J,O	0.52 J,O	0.55 J,O	0.72 J,O	1.5 U
Chloroform	ug/m3	2.4 U	2.4 U	2.3 U	2.3 U	2.3 U	2.4 U	2.2 U	2.2 U	2.5 U	2.5 U	0.34 J,O	2.2 U
Ethyl Benzene	ug/m3	2.2 U	2.2 U	2.1 U	2.1 U	2.1 U	2.2 U	2.0 U	2.0 U	2.2 U	0.24 J,O	0.39 J,O	2.0 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.6 U	1.6 U	1.6 U	1.7 U	1.5 U	1.5 U	1.7 U	1.7 U	1.9 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.4 U	3.4 U	3.2 U	3.3 U	3.3 U	3.4 U	3.1 U	3.1 U	3.5 U	3.5 U	3.9 U	0.69 J,O
Toluene	ug/m3	0.77 J,O	0.72 J,O	0.85 J,O	0.74 J,O	0.72 J,O	0.72 J,O	0.51 J,O	0.54 J,O	0.85 J,O	1.0 J,O	2.2	1.8 U
Trichloroethene (Trichloroethylene)	ug/m3	2.7 U	2.7 U	2.5 U	2.6 U	2.6 U	2.7 U	2.5 U	2.5 U	2.8 U	0.29 J,O	3.1 U	2.5 U
Vinyl chloride	ug/m3	1.3 U	1.3 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.3 U	1.3 U	1.4 U	1.2 U
cis-1,2-Dichloroethene	ug/m3	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.8 U	2.0 U	2.0 U	2.3 U	1.8 U
o-Xylene	ug/m3	0.25 J,O	0.26 J,O	0.27 J,O	0.24 J,O	0.24 J,O	0.27 J,O	2.0 U	2.0 U	0.30 J,O	0.37 J,O	0.44 J,O	2.0 U
trans-1,2-Dichloroethene	ug/m3	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.1 U	1.9 U	1.9 U	2.1 U	2.1 U	2.4 U	1.9 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other

TABLE 16

(b) (6) [redacted]

Sample Station GM118
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
November 2016

Location		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]	
Station ID		GM12		GM01				GM13		GM11		GM118	
Sample ID		GM12AA21116	GM12AA31116	GM01AA21116	GM01AA21116D	GM01AA31116	GM01AA31116D	GM13AA21116	GM13AA31116	GM11AA21116	GM11AA31116	GM118IA1116	GM118SS1116
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		11/30/2016 8:05	12/1/2016 8:00	11/30/2016 7:40	11/30/2016 7:40	12/1/2016 7:45	12/1/2016 7:45	11/30/2016 8:15	12/1/2016 8:10	11/30/2016 7:51	12/1/2016 7:54	11/30/2016 14:45	11/30/2016 13:52
Analyte	Units												
(m- and/or p-)Xylene	ug/m3	0.49 J,O	0.48 J,O	0.60 J,O	0.49 J,O	0.43 J,O	4.5 U	4.1 U	4.0 U	0.59 J,O	0.67 J,O	2.6 J,O	4.0 U
1,1,2-Trichloroethane	ug/m3	2.8 U	2.8 U	2.6 U	2.7 U	2.7 U	2.8 U	2.5 U	2.5 U	2.8 U	2.8 U	2.9 U	2.5 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	2.0 U	1.7 U
1,2,4-Trimethylbenzene	ug/m3	0.38 J,O	0.57 J,O	0.39 J,O	0.35 J,O	0.57 J,O	0.56 J,O	0.24 J,O	0.42 J,O	0.43 J,O	0.71 J,O	1.2 J,O	2.2 U
1,2-Dichloroethane	ug/m3	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.8 U	2.0 U	2.0 U	1.4 J,O	1.8 U
Benzene	ug/m3	0.50 J,O	0.49 J,O	0.52 J,O	0.47 J,O	0.47 J,O	0.46 J,O	0.44 J,O	0.41 J,O	0.52 J,O	0.55 J,O	2.6	0.14 J,O
Chloroform	ug/m3	2.4 U	2.4 U	2.3 U	2.3 U	2.3 U	2.4 U	2.2 U	2.2 U	2.5 U	2.5 U	0.41 J,O	2.2 U
Ethyl Benzene	ug/m3	2.2 U	2.2 U	2.1 U	2.1 U	2.1 U	2.2 U	2.0 U	2.0 U	2.2 U	0.24 J,O	0.83 J,O	2.0 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.6 U	1.6 U	1.6 U	1.7 U	1.5 U	1.5 U	1.7 U	1.7 U	1.7 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.4 U	3.4 U	3.2 U	3.3 U	3.3 U	3.4 U	3.1 U	3.1 U	3.5 U	3.5 U	3.5 U	3.0 U
Toluene	ug/m3	0.77 J,O	0.72 J,O	0.85 J,O	0.74 J,O	0.72 J,O	0.72 J,O	0.51 J,O	0.54 J,O	0.85 J,O	1.0 J,O	6.1	1.7 U
Trichloroethene (Trichloroethylene)	ug/m3	2.7 U	2.7 U	2.5 U	2.6 U	2.6 U	2.7 U	2.5 U	2.5 U	2.8 U	0.29 J,O	2.8 U	2.4 U
Vinyl chloride	ug/m3	1.3 U	1.3 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.3 U	1.3 U	1.3 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.8 U	2.0 U	2.0 U	2.1 U	1.8 U
o-Xylene	ug/m3	0.25 J,O	0.26 J,O	0.27 J,O	0.24 J,O	0.24 J,O	0.27 J,O	2.0 U	2.0 U	0.30 J,O	0.37 J,O	0.88 J,O	2.0 U
trans-1,2-Dichloroethene	ug/m3	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.1 U	1.9 U	1.9 U	2.1 U	2.1 U	2.2 U	1.9 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 17

[redacted]

Sample Station GM117
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
November 2016

Location		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]			
Station ID		GM12		GM01				GM13		GM11		GM117			
Sample ID		GM12AA21116	GM12AA31116	GM01AA21116	GM01AA21116D	GM01AA31116	GM01AA31116D	GM13AA21116	GM13AA31116	GM11AA21116	GM11AA31116	GM117IA1116	GM117IA1116D	GM117SS1116	GM117SS1116S
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Indoor Air	Soil Gas	Soil Gas
Sample Date		11/30/2016 8:05	12/1/2016 8:00	11/30/2016 7:40	11/30/2016 7:40	12/1/2016 7:45	12/1/2016 7:45	11/30/2016 8:15	12/1/2016 8:10	11/30/2016 7:51	12/1/2016 7:54	11/30/2016 15:22	11/30/2016 15:22	11/30/2016 14:37	11/30/2016 14:37
Analyte	Units														
(m- and/or p-)Xylene	ug/m3	0.49 J,O	0.48 J,O	0.60 J,O	0.49 J,O	0.43 J,O	4.5 U	4.1 U	4.0 U	0.59 J,O	0.67 J,O	0.65 J,O	0.74 J,O	3.9 U	3.9 U
1,1,2-Trichloroethane	ug/m3	2.8 U	2.8 U	2.6 U	2.7 U	2.7 U	2.8 U	2.5 U	2.5 U	2.8 U	2.8 U	2.7 U	2.8 U	2.4 U	2.5 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	1.8 U	1.9 U	1.7 U	1.7 U
1,2,4-Trimethylbenzene	ug/m3	0.38 J,O	0.57 J,O	0.39 J,O	0.35 J,O	0.57 J,O	0.56 J,O	0.24 J,O	0.42 J,O	0.43 J,O	0.71 J,O	0.56 J,O	0.58 J,O	2.2 U	2.2 U
1,2-Dichloroethane	ug/m3	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.8 U	2.0 U	2.0 U	1.0 J,O	0.99 J,O	0.25 J,O	1.8 U
Benzene	ug/m3	0.50 J,O	0.49 J,O	0.52 J,O	0.47 J,O	0.47 J,O	0.46 J,O	0.44 J,O	0.41 J,O	0.52 J,O	0.55 J,O	0.99 J,O	1.0 J,O	0.34 J,O	0.34 J,O
Chloroform	ug/m3	2.4 U	2.4 U	2.3 U	2.3 U	2.3 U	2.4 U	2.2 U	2.2 U	2.5 U	2.5 U	0.58 J,O	0.53 J,O	0.57 J,O	0.57 J,O
Ethyl Benzene	ug/m3	2.2 U	2.2 U	2.1 U	2.1 U	2.1 U	2.2 U	2.0 U	2.0 U	2.2 U	0.24 J,O	0.27 J,O	0.30 J,O	1.9 U	1.9 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.6 U	1.6 U	1.6 U	1.7 U	1.5 U	1.5 U	1.7 U	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.4 U	3.4 U	3.2 U	3.3 U	3.3 U	3.4 U	3.1 U	3.1 U	3.5 U	3.5 U	3.3 U	3.5 U	0.45 J,O	0.46 J,O
Toluene	ug/m3	0.77 J,O	0.72 J,O	0.85 J,O	0.74 J,O	0.72 J,O	0.72 J,O	0.51 J,O	0.54 J,O	0.85 J,O	1.0 J,O	2.0	2.1	0.57 J,O	0.56 J,O
Trichloroethene (Trichloroethylene)	ug/m3	2.7 U	2.7 U	2.5 U	2.6 U	2.6 U	2.7 U	2.5 U	2.5 U	2.8 U	0.29 J,O	2.6 U	2.7 U	2.4 U	2.4 U
Vinyl chloride	ug/m3	1.3 U	1.3 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.3 U	1.3 U	1.2 U	1.3 U	1.1 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.8 U	2.0 U	2.0 U	1.9 U	2.0 U	1.8 U	1.8 U
o-Xylene	ug/m3	0.25 J,O	0.26 J,O	0.27 J,O	0.24 J,O	0.24 J,O	0.27 J,O	2.0 U	2.0 U	0.30 J,O	0.37 J,O	0.35 J,O	0.39 J,O	2.0 U	2.0 U
trans-1,2-Dichloroethene	ug/m3	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.1 U	1.9 U	1.9 U	2.1 U	2.1 U	2.0 U	2.1 U	1.8 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 18

[redacted]

Sample Station GM115
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
November 2016

Location		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]	
Station ID		GM12		GM01				GM13		GM11		GM115	
Sample ID		GM12AA21116	GM12AA31116	GM01AA21116	GM01AA21116D	GM01AA31116	GM01AA31116D	GM13AA21116	GM13AA31116	GM11AA21116	GM11AA31116	GM115IA1116	GM115SS1116
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		11/30/2016 8:05	12/1/2016 8:00	11/30/2016 7:40	11/30/2016 7:40	12/1/2016 7:45	12/1/2016 7:45	11/30/2016 8:15	12/1/2016 8:10	11/30/2016 7:51	12/1/2016 7:54	11/30/2016 16:36	11/30/2016 15:49
Analyte	Units												
(m- and/or p-)Xylene	ug/m3	0.49 J,O	0.48 J,O	0.60 J,O	0.49 J,O	0.43 J,O	4.5 U	4.1 U	4.0 U	0.59 J,O	0.67 J,O	4.8 U	3.8 U
1,1,2-Trichloroethane	ug/m3	2.8 U	2.8 U	2.6 U	2.7 U	2.7 U	2.8 U	2.5 U	2.5 U	2.8 U	2.8 U	3.0 U	2.4 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	2.0 U	1.6 U
1,2,4-Trimethylbenzene	ug/m3	0.38 J,O	0.57 J,O	0.39 J,O	0.35 J,O	0.57 J,O	0.56 J,O	0.24 J,O	0.42 J,O	0.43 J,O	0.71 J,O	0.28 J,O	2.2 U
1,2-Dichloroethane	ug/m3	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.8 U	2.0 U	2.0 U	2.1 U	1.7 U
Benzene	ug/m3	0.50 J,O	0.49 J,O	0.52 J,O	0.47 J,O	0.47 J,O	0.46 J,O	0.44 J,O	0.41 J,O	0.52 J,O	0.55 J,O	0.50 J,O	0.41 J,O
Chloroform	ug/m3	2.4 U	2.4 U	2.3 U	2.3 U	2.3 U	2.4 U	2.2 U	2.2 U	2.5 U	2.5 U	2.6 U	0.95 J,O
Ethyl Benzene	ug/m3	2.2 U	2.2 U	2.1 U	2.1 U	2.1 U	2.2 U	2.0 U	2.0 U	2.2 U	0.24 J,O	2.4 U	1.9 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.6 U	1.6 U	1.6 U	1.7 U	1.5 U	1.5 U	1.7 U	1.7 U	1.8 U	1.4 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.4 U	3.4 U	3.2 U	3.3 U	3.3 U	3.4 U	3.1 U	3.1 U	3.5 U	3.5 U	3.7 U	2.9 U
Toluene	ug/m3	0.77 J,O	0.72 J,O	0.85 J,O	0.74 J,O	0.72 J,O	0.72 J,O	0.51 J,O	0.54 J,O	0.85 J,O	1.0 J,O	1.4 J,O	0.63 J,O
Trichloroethene (Trichloroethylene)	ug/m3	2.7 U	2.7 U	2.5 U	2.6 U	2.6 U	2.7 U	2.5 U	2.5 U	2.8 U	0.29 J,O	2.9 U	0.27 J,O
Vinyl chloride	ug/m3	1.3 U	1.3 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.3 U	1.3 U	1.4 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.8 U	2.0 U	2.0 U	2.1 U	1.7 U
o-Xylene	ug/m3	0.25 J,O	0.26 J,O	0.27 J,O	0.24 J,O	0.24 J,O	0.27 J,O	2.0 U	2.0 U	0.30 J,O	0.37 J,O	2.4 U	1.9 U
trans-1,2-Dichloroethene	ug/m3	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.1 U	1.9 U	1.9 U	2.1 U	2.1 U	2.2 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 19

(b) (6)

Sample Station GM120
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
November 2016

Location		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		(b) (6)	
Station ID		GM12		GM01				GM13		GM11		GM120	
Sample ID		GM12AA21116	GM12AA31116	GM01AA21116	GM01AA21116D	GM01AA31116	GM01AA31116D	GM13AA21116	GM13AA31116	GM11AA21116	GM11AA31116	GM120IA1116	GM120SS1116
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		11/30/2016 8:05	12/1/2016 8:00	11/30/2016 7:40	11/30/2016 7:40	12/1/2016 7:45	12/1/2016 7:45	11/30/2016 8:15	12/1/2016 8:10	11/30/2016 7:51	12/1/2016 7:54	11/30/2016 17:23	11/30/2016 16:30
Analyte	Units												
(m- and/or p-)Xylene	ug/m3	0.49 J,O	0.48 J,O	0.60 J,O	0.49 J,O	0.43 J,O	4.5 U	4.1 U	4.0 U	0.59 J,O	0.67 J,O	1.0 J,O	4.0 U
1,1,2-Trichloroethane	ug/m3	2.8 U	2.8 U	2.6 U	2.7 U	2.7 U	2.8 U	2.5 U	2.5 U	2.8 U	2.8 U	2.8 U	2.5 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U	1.7 U	1.9 U	1.9 U	1.9 U	1.7 U
1,2,4-Trimethylbenzene	ug/m3	0.38 J,O	0.57 J,O	0.39 J,O	0.35 J,O	0.57 J,O	0.56 J,O	0.24 J,O	0.42 J,O	0.43 J,O	0.71 J,O	0.70 J,O	2.2 U
1,2-Dichloroethane	ug/m3	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.8 U	2.0 U	2.0 U	0.95 J,O	1.8 U
Benzene	ug/m3	0.50 J,O	0.49 J,O	0.52 J,O	0.47 J,O	0.47 J,O	0.46 J,O	0.44 J,O	0.41 J,O	0.52 J,O	0.55 J,O	0.85 J,O	1.4 U
Chloroform	ug/m3	2.4 U	2.4 U	2.3 U	2.3 U	2.3 U	2.4 U	2.2 U	2.2 U	2.5 U	2.5 U	0.33 J,O	14
Ethyl Benzene	ug/m3	2.2 U	2.2 U	2.1 U	2.1 U	2.1 U	2.2 U	2.0 U	2.0 U	2.2 U	0.24 J,O	0.38 J,O	2.0 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.6 U	1.6 U	1.6 U	1.7 U	1.5 U	1.5 U	1.7 U	1.7 U	1.7 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.4 U	3.4 U	3.2 U	3.3 U	3.3 U	3.4 U	3.1 U	3.1 U	3.5 U	3.5 U	3.4 U	3.0 U
Toluene	ug/m3	0.77 J,O	0.72 J,O	0.85 J,O	0.74 J,O	0.72 J,O	0.72 J,O	0.51 J,O	0.54 J,O	0.85 J,O	1.0 J,O	4.0	0.22 J,O
Trichloroethene (Trichloroethylene)	ug/m3	2.7 U	2.7 U	2.5 U	2.6 U	2.6 U	2.7 U	2.5 U	2.5 U	2.8 U	0.29 J,O	2.7 U	2.4 U
Vinyl chloride	ug/m3	1.3 U	1.3 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.3 U	1.3 U	1.3 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.8 U	2.0 U	2.0 U	2.0 U	1.8 U
o-Xylene	ug/m3	0.25 J,O	0.26 J,O	0.27 J,O	0.24 J,O	0.24 J,O	0.27 J,O	2.0 U	2.0 U	0.30 J,O	0.37 J,O	0.48 J,O	2.0 U
trans-1,2-Dichloroethene	ug/m3	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.1 U	1.9 U	1.9 U	2.1 U	2.1 U	2.1 U	1.9 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 20

(b) (6) [redacted]

Sample Station GM123
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
November 2016

Location		North Ambient Air Location	South Ambient Air Location		East Ambient Air Location	West Ambient Air Location	[redacted]	
Station ID		GM12	GM01		GM13	GM11	GM123	
Sample ID		GM12AA31116	GM01AA31116	GM01AA31116D	GM13AA31116	GM11AA31116	GM123IA1116	GM123SS1116
Matrix		Ambient Air	Ambient Air		Ambient Air	Ambient Air	Indoor Air	Soil Gas
Sample Date		12/1/2016 8:00	12/1/2016 7:45	12/1/2016 7:45	12/1/2016 8:10	12/1/2016 7:54	12/1/2016 9:37	12/1/2016 8:38
Analyte	Units							
(m- and/or p-)Xylene	ug/m3	0.48 J,O	0.43 J,O	4.5 U	4.0 U	0.67 J,O	3.6 J,O	3.9 U
1,1,2-Trichloroethane	ug/m3	2.8 U	2.7 U	2.8 U	2.5 U	2.8 U	3.0 U	2.4 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.8 U	1.9 U	1.7 U	1.9 U	2.0 U	1.6 U
1,2,4-Trimethylbenzene	ug/m3	0.57 J,O	0.57 J,O	0.56 J,O	0.42 J,O	0.71 J,O	1.1 J,O	2.2 U
1,2-Dichloroethane	ug/m3	2.0 U	1.9 U	2.0 U	1.8 U	2.0 U	1.1 J,O	1.7 U
Benzene	ug/m3	0.49 J,O	0.47 J,O	0.46 J,O	0.41 J,O	0.55 J,O	36	1.4 U
Chloroform	ug/m3	2.4 U	2.3 U	2.4 U	2.2 U	2.5 U	3.5	0.65 J,O
Ethyl Benzene	ug/m3	2.2 U	2.1 U	2.2 U	2.0 U	0.24 J,O	1.8 J,O	1.9 U
Methylene Chloride	ug/m3	1.7 U	1.6 U	1.7 U	1.5 U	1.7 U	1.8 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.4 U	3.3 U	3.4 U	3.1 U	3.5 U	3.6 U	0.50 J,O
Toluene	ug/m3	0.72 J,O	0.72 J,O	0.72 J,O	0.54 J,O	1.0 J,O	8.2	1.7 U
Trichloroethene (Trichloroethylene)	ug/m3	2.7 U	2.6 U	2.7 U	2.5 U	0.29 J,O	2.9 U	2.4 U
Vinyl chloride	ug/m3	1.3 U	1.2 U	1.3 U	1.2 U	1.3 U	1.4 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	2.0 U	1.9 U	2.0 U	1.8 U	2.0 U	2.1 U	1.7 U
o-Xylene	ug/m3	0.26 J,O	0.24 J,O	0.27 J,O	2.0 U	0.37 J,O	1.2 J,O	1.9 U
trans-1,2-Dichloroethene	ug/m3	2.1 U	2.0 U	2.1 U	1.9 U	2.1 U	2.2 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an
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TABLE 21

Co-Located Duplicate Comparisons of the South Ambient Air Location

		South Ambient Air Location								
Station ID		GM01								
Sample ID		GM01AA1116	GM01AA1116D	**Percent Difference**	GM01AA2116	GM01AA2116D	**Percent Difference**	GM01AA3116	GM01AA3116D	**Percent Difference**
Matrix		Ambient Air			Ambient Air			Ambient Air		
Sample Date		11/29/2016 7:44		%	11/30/2016 7:40		%	12/1/2016 7:45		%
Analyte	**Units**									
(m- and/or p-)Xylene	ug/m3	-	-		0.60	0.49	**20.18%**	0.43	0.19	**77.42%**
1,1,2-Trichloroethane	ug/m3	-	-		-	-		-	-	
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	-	-		-	-		-	-	
1,2,4-Trimethylbenzene	ug/m3	-	-		0.39	0.35	**10.81%**	0.57	0.56	**1.77%**
1,2-Dichloroethane	ug/m3	-	-		-	-		-	-	
Benzene	ug/m3	0.31	0.31	**0.00%**	0.52	0.47	**10.10%**	0.47	0.46	**2.15%**
Chloroform	ug/m3	-	-		-	-		-	-	
Ethyl Benzene	ug/m3	-	-		-	-		-	-	
Methylene Chloride	ug/m3	-	-		-	-		-	-	
Tetrachloroethene (Tetrachloroethylene)	ug/m3	-	-		-	-		-	-	
Toluene	ug/m3	0.40	0.36	**10.53%**	0.85	0.74	**13.84%**	0.72	0.72	**0.00%**
Trichloroethene (Trichloroethylene)	ug/m3	-	-		-	-		-	-	
Vinyl chloride	ug/m3	-	-		-	-		-	-	
cis-1,2-Dichloroethene	ug/m3	-	-		-	-		-	-	
o-Xylene	ug/m3	-	-		0.27	0.24	**11.76%**	0.24	0.27	**11.76%**
trans-1,2-Dichloroethene	ug/m3	-	-		-	-		-	-	

Detects are Highlighted

** The percent difference calculation for (m- and/or p-)Xylene in sample GM01AA31116D was conducted using the Method Detection Level (MDL) of 0.19ug/m3 due to the non detection of the analyte.

Data qualifiers were left out of this table for sake of calculations.

TABLE 22

Co-Located Duplicate Comparisons of Indoor Air and Soil Gas Split Samples at [redacted]

		[redacted]					
Station ID		GM107					
Sample ID		GM107IA1116	GM107IA1116D	**Percent Difference**	GM107SS1116	GM107SS1116S	**Percent Difference**
Matrix		Indoor Air			Soil Gas		
Sample Date		11/29/2016 12:00		**%**	11/29/2016 11:18		**%**
Analyte	**Units**						
(m- and/or p-)Xylene	ug/m3	0.7	0.66	**5.88%**	-	-	
1,1,2-Trichloroethane	ug/m3	-	-		-	-	
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	-	-		-	-	
1,2,4-Trimethylbenzene	ug/m3	-	-		-	-	
1,2-Dichloroethane	ug/m3	0.45	0.46	**2.20%**	-	-	
Benzene	ug/m3	0.56	0.57	**1.77%**	-	-	
Chloroform	ug/m3	0.61	0.63	**3.23%**	-	-	
Ethyl Benzene	ug/m3	0.26	0.27	**3.77%**	-	-	
Methylene Chloride	ug/m3	-	-		-	-	
Tetrachloroethene (Tetrachloroethylene)	ug/m3	-	-		-	-	
Toluene	ug/m3	6.2	6.3	**1.60%**	-	-	
Trichloroethene (Trichloroethylene)	ug/m3	-	-		-	-	
Vinyl chloride	ug/m3	-	-		-	-	
cis-1,2-Dichloroethene	ug/m3	-	-		-	-	
o-Xylene	ug/m3	0.29	0.3	**3.39%**	-	-	
trans-1,2-Dichloroethene	ug/m3	-	-		-	-	

Detects are Highlighted

Data qualifiers were left out of this table for sake of calculations

TABLE 23

Co-Located Duplicate Comparisons of Indoor Air and Soil Gas Split Samples at (b) (6) [redacted]

		[redacted]					
Station ID		GM117					
Sample ID		GM117IA1116	GM117IA1116D	**Percent Difference**	GM117SS1116	GM117SS1116S	**Percent Difference**
Matrix		Indoor Air			Soil Gas		
Sample Date		11/30/2016 15:22		%	11/30/2016 14:37		%
Analyte	**Units**						
(m- and/or p-)Xylene	ug/m3	0.65	0.74	**12.95%**	-	-	
1,1,2-Trichloroethane	ug/m3	-	-		-	-	
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	-	-		-	-	
1,2,4-Trimethylbenzene	ug/m3	0.56	0.58	**3.51%**	-	-	
1,2-Dichloroethane	ug/m3	1.0	0.99	**1.01%**	0.25	0.11	**77.78%**
Benzene	ug/m3	0.99	1.0	**1.01%**	0.34	0.34	**0.00%**
Chloroform	ug/m3	0.58	0.53	**9.01%**	0.57	0.57	**0.00%**
Ethyl Benzene	ug/m3	0.27	0.30	**10.53%**	-	-	
Methylene Chloride	ug/m3	-	-		-	-	
Tetrachloroethene (Tetrachloroethylene)	ug/m3	-	-		0.45	0.46	**2.20%**
Toluene	ug/m3	2.0	2.1	**4.88%**	0.57	0.56	**1.77%**
Trichloroethene (Trichloroethylene)	ug/m3	-	-		-	-	
Vinyl chloride	ug/m3	-	-		-	-	
cis-1,2-Dichloroethene	ug/m3	-	-		-	-	
o-Xylene	ug/m3	0.35	0.39	**10.81%**	-	-	
trans-1,2-Dichloroethene	ug/m3	-	-		-	-	

**see note below

Detects are Highlighted

** The percent difference calculation for 1,2-Dichloroethane in sample GM108SSS0516 was conducted using the Method Detection Level (MDL) of 0.11ug/m3 due to the non detection of the analyte.

Data qualifiers were left out of this table for sake of calculations

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TABLE 24

24-Hour Ambient Samples Collected November 29 – 30, 2016

Location		South Landfill Ambient Air Location	North Landfill Ambient Air Location	Old Water Treatment Plant Ambient Air Location	West Ambient Air Location	South Ambient Air Location		North Ambient Air Location	East Ambient Air Location
Station ID		GM19	GM18	GM02	GM11	GM01		GM12	GM13
Sample ID		GM19AA1116	GM18AA1116	GM02AA1116	GM11AA1116	GM01AA1116	GM01AA1116D	GM12AA1116	GM13AA1116
Matrix		Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air
Sample Date		11/29/2016 7:12	11/29/2016 7:21	11/29/2016 7:28	11/29/2016 7:50	11/29/2016 7:44	11/29/2016 7:44	11/29/2016 8:00	11/29/2016 8:08
Analyte	**Units**								
(m- and/or p-)Xylene	ug/m3	6.9 U	0.70 J,O	4.5 U	4.6 U	4.4 U	4.4 U	4.6 U	4.7 U
1,1,2-Trichloroethane	ug/m3	4.3 U	3.5 U	2.8 U	2.9 U	2.8 U	2.8 U	2.9 U	2.9 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	2.9 U	2.4 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U
1,2,4-Trimethylbenzene	ug/m3	3.9 U	0.35 J,O	2.5 U	2.6 U	2.5 U	2.5 U	2.6 U	2.6 U
1,2-Dichloroethane	ug/m3	3.1 U	2.5 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.1 U
Benzene	ug/m3	0.32 J,O	0.68 J,O	0.35 J,O	0.30 J,O	0.31 J,O	0.31 J,O	0.30 J,O	0.31 J,O
Chloroform	ug/m3	3.7 U	3.2	2.4 U	2.5 U	2.4 U	2.4 U	2.5 U	2.5 U
Ethyl Benzene	ug/m3	3.4 U	2.8 U	2.2 U	2.3 U	2.2 U	2.2 U	2.3 U	2.3 U
Methylene Chloride	ug/m3	2.6 U	3.5	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	5.2 U	4.3 U	3.4 U	3.5 U	3.4 U	3.4 U	3.5 U	3.6 U
Toluene	ug/m3	0.42 J,O	0.95 J,O	0.42 J,O	0.43 J,O	0.40 J,O	0.36 J,O	0.41 J,O	0.34 J,O
Trichloroethene (Trichloroethylene)	ug/m3	4.2 U	2.8 J,O	1.6 J,O	2.8 U	2.7 U	2.7 U	2.8 U	2.8 U
Vinyl chloride	ug/m3	2.0 U	0.82 J,O	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
cis-1,2-Dichloroethene	ug/m3	3.1 U	0.34 J,O	0.21 J,O	2.1 U	2.0 U	2.0 U	2.1 U	2.1 U
o-Xylene	ug/m3	3.4 U	2.8 U	2.2 U	2.3 U	2.2 U	2.2 U	2.3 U	2.3 U
trans-1,2-Dichloroethene	ug/m3	3.2 U	2.6 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	2.2 U

Sample Locations are arranged for wind direction traveling from West to East ---------→

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

Landfill & Old Water Treatment Plant Locations

Residential Ambient Air Locations

TABLE 25

24-Hour Ambient Samples Collected November 30 – December 1, 2016

Location		South Landfill Ambient Air Location	North Landfill Ambient Air Location	Old Water Treatment Plant Ambient Air Location	West Ambient Air Location	South Ambient Air Location		North Ambient Air Location	East Ambient Air Location
Station ID		GM19	GM18	GM02	GM11	GM01		GM12	GM13
Sample ID		GM19AA31116	GM18AA1116	GM02AA21116	GM11AA21116	GM01AA21116	GM01AA21116D	GM12AA21116	GM13AA21116
Matrix		Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air
Sample Date				11/30/2016 7:28	11/30/2016 7:51	11/30/2016 7:40	11/30/2016 7:40	11/30/2016 8:05	11/30/2016 8:15
Analyte	Units								
(m- and/or p-)Xylene	ug/m3	Sample VOID due to Bad Weather	Sample VOID due to Bad Weather	0.55 J,O	0.59 J,O	0.60 J,O	0.49 J,O	0.49 J,O	4.1 U
1,1,2-Trichloroethane	ug/m3			2.7 U	2.8 U	2.6 U	2.7 U	2.8 U	2.5 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3			1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U
1,2,4-Trimethylbenzene	ug/m3			0.43 J,O	0.43 J,O	0.39 J,O	0.35 J,O	0.38 J,O	0.24 J,O
1,2-Dichloroethane	ug/m3			1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	1.8 U
Benzene	ug/m3			0.44 J,O	0.52 J,O	0.52 J,O	0.47 J,O	0.50 J,O	0.44 J,O
Chloroform	ug/m3			2.4 U	2.5 U	2.3 U	2.3 U	2.4 U	2.2 U
Ethyl Benzene	ug/m3			2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	2.0 U
Methylene Chloride	ug/m3			1.6 U	1.7 U	1.6 U	1.6 U	1.7 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3			3.3 U	3.5 U	3.2 U	3.3 U	3.4 U	3.1 U
Toluene	ug/m3			0.72 J,O	0.85 J,O	0.85 J,O	0.74 J,O	0.77 J,O	0.51 J,O
Trichloroethene (Trichloroethylene)	ug/m3			0.35 J,O	2.8 U	2.5 U	2.6 U	2.7 U	2.5 U
Vinyl chloride	ug/m3			1.2 U	1.3 U	1.2 U	1.2 U	1.3 U	1.2 U
cis-1,2-Dichloroethene	ug/m3			1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	1.8 U
o-Xylene	ug/m3			0.27 J,O	0.30 J,O	0.27 J,O	0.24 J,O	0.25 J,O	2.0 U
trans-1,2-Dichloroethene	ug/m3			2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	1.9 U

Sample Locations are arranged for Wind Direction traveling from West to East ---------→

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

Landfill & Old Water Treatment Plant Locations

Residential Ambient Air Locations

TABLE 26

24-Hour Ambient Samples Collected December 1 - 2, 2016

Location		South Landfill Ambient Air Location	North Landfill Ambient Air Location	Old Water Treatment Plant Ambient Air Location	West Ambient Air Location	South Ambient Air Location		North Ambient Air Location	East Ambient Air Location
Station ID		GM19	GM18	GM02	GM11	GM01		GM12	GM13
Sample ID		GM19AA31116	GM18AA31116	GM02AA31116	GM11AA31116	GM01AA31116	GM01AA31116D	GM12AA31116	GM13AA31116
Matrix		Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air
Sample Date		12/1/2016 7:13	12/1/2016 7:25	12/1/2016 7:35	12/1/2016 7:54	12/1/2016 7:45	12/1/2016 7:45	12/1/2016 8:00	12/1/2016 8:10
Analyte	**Units**								
(m- and/or p-)Xylene	ug/m3	0.59 J,O	0.96 J,O	0.57 J,O	0.67 J,O	0.43 J,O	4.5 U	0.48 J,O	4.0 U
1,1,2-Trichloroethane	ug/m3	2.7 U	2.7 U	2.7 U	2.8 U	2.7 U	2.8 U	2.8 U	2.5 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U
1,2,4-Trimethylbenzene	ug/m3	1.8 J,O	1.5 J,O	0.89 J,O	0.71 J,O	0.57 J,O	0.56 J,O	0.57 J,O	0.42 J,O
1,2-Dichloroethane	ug/m3	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U	1.8 U
Benzene	ug/m3	0.49 J,O	0.64 J,O	0.48 J,O	0.55 J,O	0.47 J,O	0.46 J,O	0.49 J,O	0.41 J,O
Chloroform	ug/m3	2.3 U	2.3 U	2.4 U	2.5 U	2.3 U	2.4 U	2.4 U	2.2 U
Ethyl Benzene	ug/m3	2.1 U	0.27 J,O	2.1 U	0.24 J,O	2.1 U	2.2 U	2.2 U	2.0 U
Methylene Chloride	ug/m3	1.6 U	1.6 U	1.6 U	1.7 U	1.6 U	1.7 U	1.7 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.3 U	3.3 U	3.3 U	3.5 U	3.3 U	3.4 U	3.4 U	3.1 U
Toluene	ug/m3	0.74 J,O	1.1 J,O	0.82 J,O	1.0 J,O	0.72 J,O	0.72 J,O	0.72 J,O	0.54 J,O
Trichloroethene (Trichloroethylene)	ug/m3	2.6 U	2.5 J,O	0.30 J,O	0.29 J,O	2.6 U	2.7 U	2.7 U	2.5 U
Vinyl chloride	ug/m3	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.3 U	1.3 U	1.2 U
cis-1,2-Dichloroethene	ug/m3	1.9 U	0.42 J,O	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U	1.8 U
o-Xylene	ug/m3	0.53 J,O	0.55 J,O	0.33 J,O	0.37 J,O	0.24 J,O	0.27 J,O	0.26 J,O	2.0 U
trans-1,2-Dichloroethene	ug/m3	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U	2.1 U	1.9 U

Sample Locations are arranged for Wind Direction traveling from West to East ---------→

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
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J	The identification of the analyte is acceptable; the reported value is an estimate
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Landfill & Old Water Treatment Plant Locations

Residential Ambient Air Locations

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Appendix C

Wind Speed and Direction Data

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Table 26

Wind Speed and Direction Data
07:00 November 29 to 08:00 November 30, 2016

RM YOUNG CO.
TRAVERSE CITY, MI
26700 SERIES TRANSLATOR

DATE Month	DATE Day	TIME Hour	TIME Min.	Wind Speed Average MPH	Wind Speed Maximum MPH	Wind Direction Average Degrees	Wind Direction Standard Deviation Degrees
11	29	7	0	2.1	6	171	23
11	29	8	0	1.6	6	182	27
11	29	9	0	2.2	6	166	28
11	29	10	0	4	12	159	21
11	29	11	0	4.8	13	162	24
11	29	12	0	4.9	13	174	29
11	29	13	0	4.7	12	178	30
11	29	14	0	3.5	9	173	26
11	29	15	0	3.7	11	161	24
11	29	16	0	4	12	157	21
11	29	17	0	5.8	33	152	102
11	29	18	0	3.2	21	356	92
11	29	19	0	1.4	5	84	96
11	29	20	0	0.9	5	175	89
11	29	21	0	1	3	94	91
11	29	22	0	0.6	4	42	97
11	29	23	0	1.3	6	335	79
11	30	0	0	0.9	4	280	83
11	30	1	0	2.3	12	291	51
11	30	2	0	1.3	5	174	86
11	30	3	0	2.9	13	155	35
11	30	4	0	2.2	9	168	55
11	30	5	0	1.5	4	262	80
11	30	6	0	0.6	3	245	65
11	30	7	0	1.4	5	249	32
11	30	8	0	2.4	7	285	27

Table 27

Wind Speed and Direction Data
07:00 November 30 to 08:00 December 1, 2016

RM YOUNG CO.
TRAVERSE CITY, MI
26700 SERIES TRANSLATOR

DATE Month	DATE Day	TIME Hour	TIME Min.	Wind Speed Average MPH	Wind Speed Maximum MPH	Wind Direction Average Degrees	Wind Direction Standard Deviation Degrees
11	30	7	0	1.4	5	249	32
11	30	8	0	2.4	7	285	27
11	30	9	0	3.6	11	287	26
11	30	10	0	4.4	12	287	30
11	30	11	0	4.7	12	286	29
11	30	12	0	3.4	12	266	34
11	30	13	0	3.7	11	257	26
11	30	14	0	5.8	15	262	29
11	30	15	0	7.3	20	264	24
11	30	16	0	6	18	268	24
11	30	17	0	4.6	18	273	20
11	30	18	0	1.7	5	265	23
11	30	19	0	0.6	2	240	23
11	30	20	0	1.1	2	236	16
11	30	21	0	0.9	3	265	51
11	30	22	0	0.8	3	246	27
11	30	23	0	0.8	2	229	41
12	1	0	0	0.8	2	221	43
12	1	1	0	0.6	2	242	48
12	1	2	0	1	2	239	19
12	1	3	0	0.7	2	235	15
12	1	4	0	0.9	2	241	9
12	1	5	0	1	3	248	21
12	1	6	0	0.8	2	253	13
12	1	7	0	0.7	3	228	30
12	1	8	0	1.4	4	182	23

Table 28

Wind Speed and Direction Data
07:00 December 1 to 19:00 December 1, 2016

RM YOUNG CO.
TRAVERSE CITY, MI
26700 SERIES TRANSLATOR

DATE Month	DATE Day	TIME Hour	TIME Min.	Wind Speed Average MPH	Wind Speed Maximum MPH	Wind Direction Average Degrees	Wind Direction Standard Deviation Degrees
12	1	7	0	0.7	3	228	30
12	1	8	0	1.4	4	182	23
12	1	9	0	0.7	3	191	30
12	1	10	0	2.4	8	267	30
12	1	11	0	3	8	263	37
12	1	12	0	4.3	11	286	41
12	1	13	0	4.5	12	280	43
12	1	14	0	4.3	13	280	35
12	1	15	0	3.7	10	267	40
12	1	16	0	3.4	9	267	18
12	1	17	0	1.2	6	265	22
12	1	18	0	0.1	2	235	16
12	1	19	0	0	0	243	17

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Appendix D

Photographs

Image 1 thru Image 42 – Sample Stations
Photograph Log (2 pages)
Photographs (2 pages)

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Image 1 – Sample station GM19 – South Landfill Ambient Air Monitoring Location facing north
DSCN4530 – Taken 11/29/2016 07:17

Image 2 – Sample station GM18 – North Landfill Ambient Air Monitoring Location facing east
DSCN4531 – Taken 5/3/2016 07:26

Image 3 – Sample station GM02 – Old water Treatment Plant Air Monitoring Location facing east
DSCN4533 – Taken 11/29/2016 07:34

Image 4 – Sample station GM01 - South Ambient Air Monitoring Location (duplicate site) facing north
DSCN4535 – Taken 11/29/2016 07:48

Image 5 – Sample station GM11 - West Ambient Air Monitoring Station facing east
DSCN4536 – Taken 11/29/2016 07:56

Image 6 – RELOCATED Sample station GM11 - West Ambient Air Monitoring Station facing east
DSCN4556 – Taken 11/30/2016 08:01 (co-located Atlas sample on bucket)

Image 7 – Sample station GM12 - North Ambient Air Monitoring Location facing south
DSCN4537 – Taken 11/29/2016 08:03

Image 8 – Sample station GM13 - East Ambient Air Monitoring Station facing north
DSCN4538 – Taken 11/29/2016 08:12

Image 9 – Sample station GM111 – (b) (6) [redacted] Sub-Slab Soil Gas Sampling Location
DSCN4539 – Taken 11/29/2016 09:58

Image 10 – Sample station GM111 – (b) (6) [redacted] Indoor Air Sampling Location
DSCN4540 – Taken 11/29/2016 09:59

Image 11 – Sample station GM114 – (b) (6) Sub-Slab Soil Gas Sampling Location DSCN4541 – Taken 11/29/2016 10:25

Image 12 – Sample station GM114 – (b) (6) Indoor Air Sampling Location DSCN4543 – Taken 11/29/2016 10:35 co-located with Atlas sample

Image 13 – Sample station GM107 – (b) (6) Sub-Slab Soil (split) Sampling Location
DSCN4544 – Taken 11/29/2016 11:26

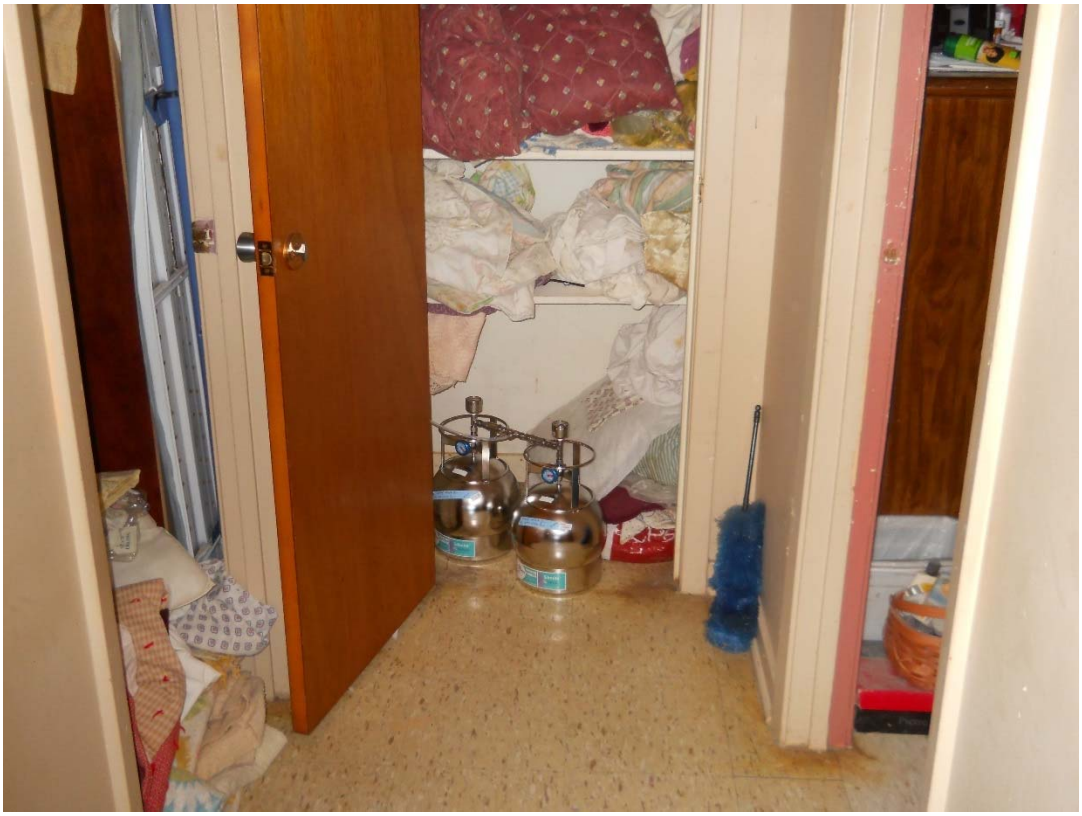

Image 14 – Sample station GM107 – (b) (6) Indoor Air Sampling Location
DSCN4545 – Taken 11/29/2016 11:39

Image 15 – Sample station GM110 – [redacted] Sub-Slab Soil Gas Sampling Location DSCN4546 – Taken 11/29/2016 13:48

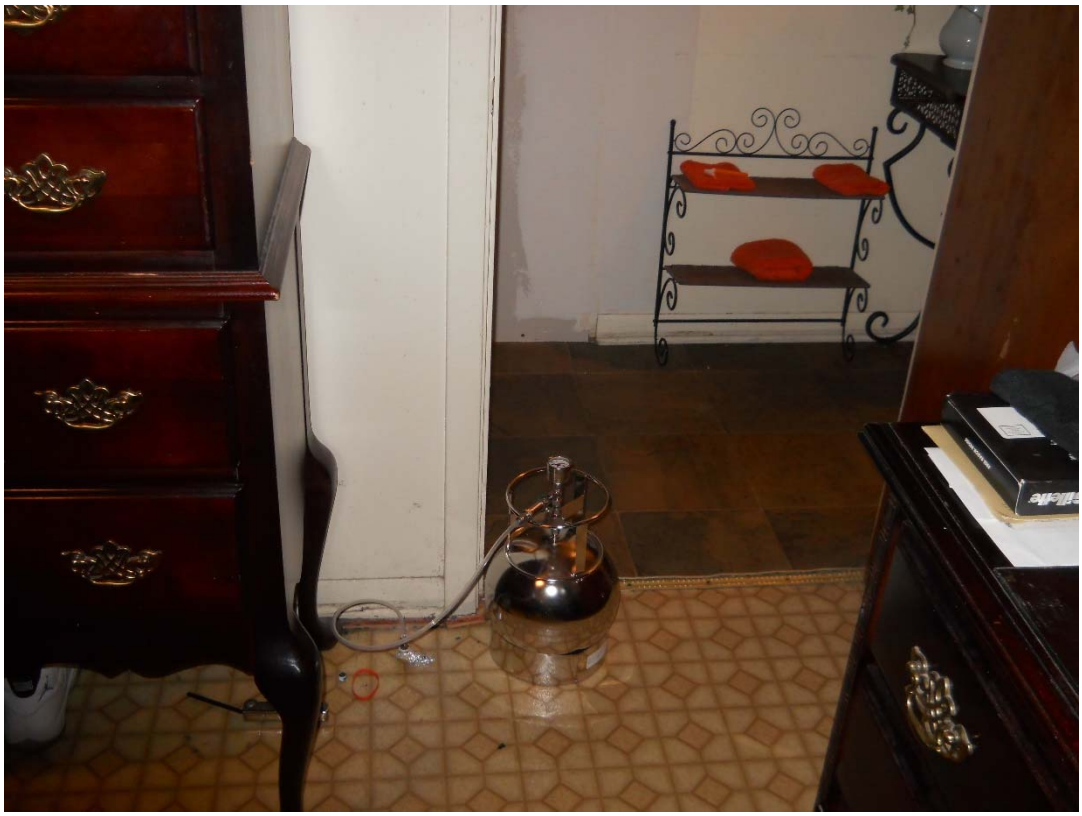

Image 16 – Sample station GM110 – [redacted] Indoor Air Duplicate Sampling Location DSCN4547 – Taken 11/29/2016 13:49

Image 17 – Sample station GM112 – [redacted] Sub- Slab Soil Gas Sampling Location
DSCN4548 – Taken 11/29/2016 14:18

Image 18 – Sample station GM112 – [redacted] Indoor Air Sampling Location
DSCN4549 – Taken 11/29/2016 14:20

Image 19 – Sample station GM113 – (b) (6) Sub-Slab Soil Gas Sampling Location DSCN4550 – Taken 11/29/2016 15:19

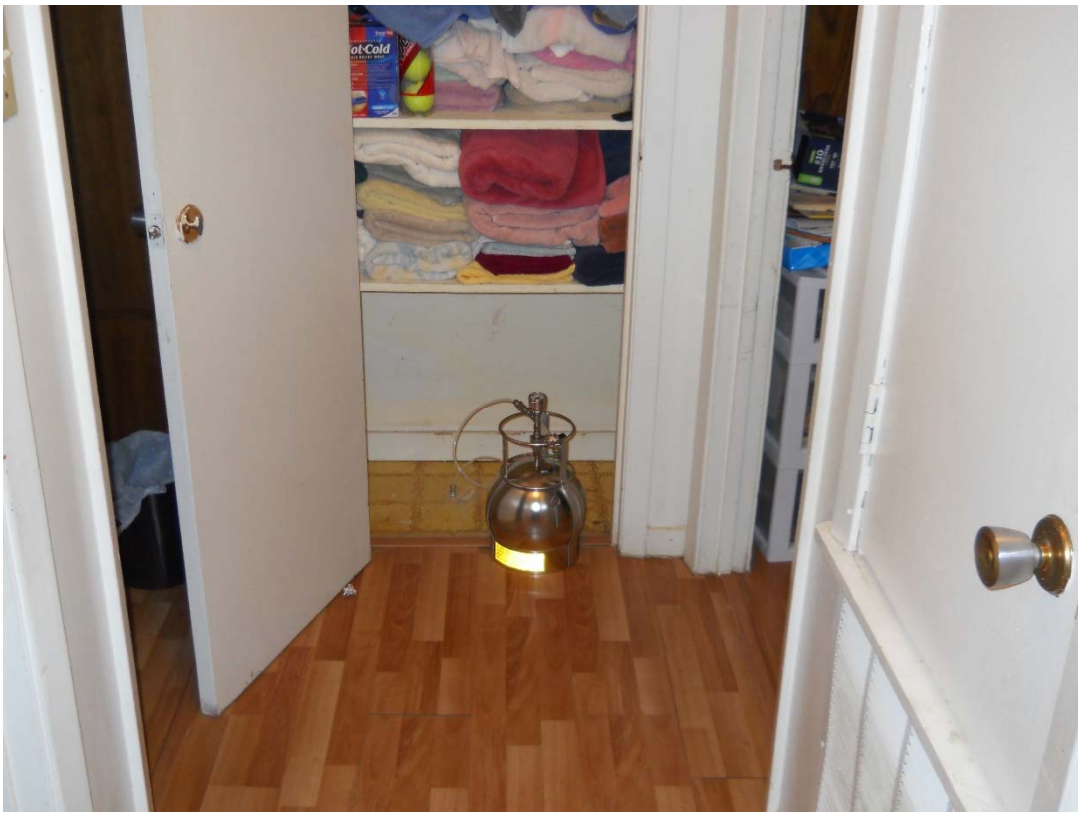

Image 20 – Sample station GM113 – (b) (6) Indoor Air Sampling Location DSCN4551 – Taken 11/29/2016 15:20 (co-located with Atlas Sample on table)

Image 21 – Sample station GM121 – (b) (6) Sub-Slab Soil Gas Sampling Location
DSCN4552 – Taken 11/29/2016 16:11

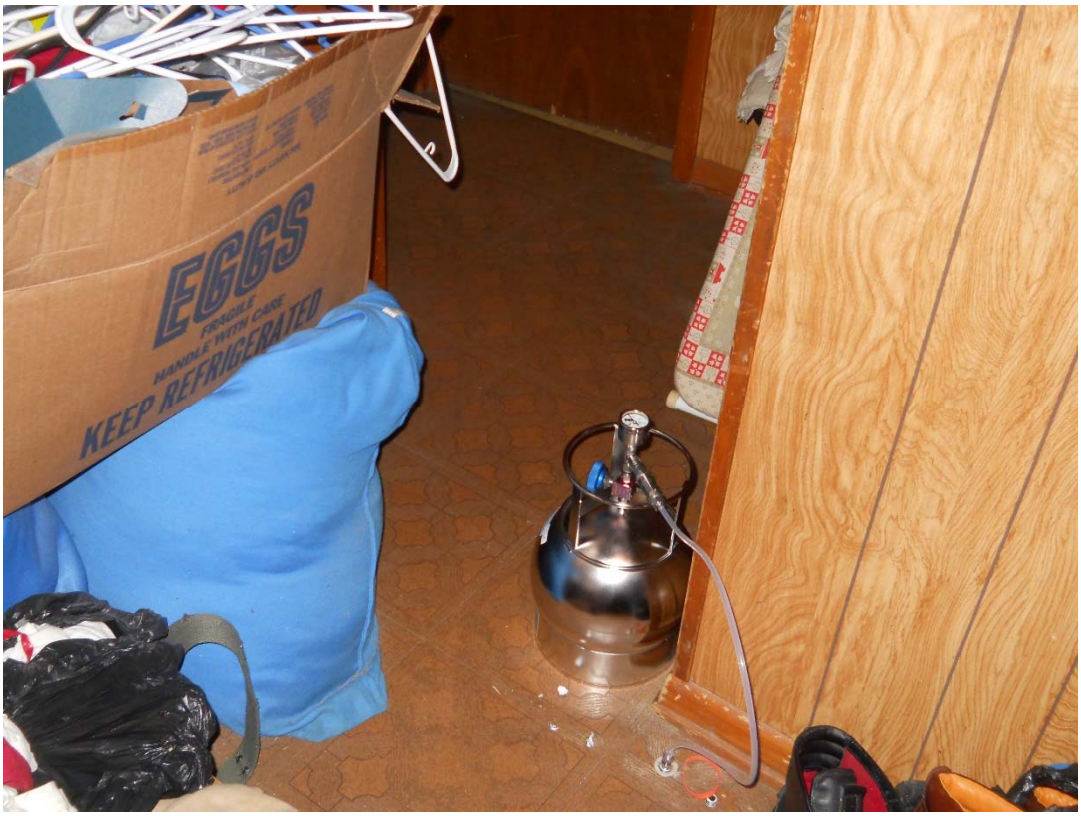

Image 22 – Sample station GM121 – (b) (6) Indoor Air Sampling Location
DSCN4553 – Taken 11/29/2016 16:15

Image 23 – Sample station GM109 – (b) (6) Sub-Slab Soil Gas Sampling Location
DSCN4554 – Taken 11/29/2016 16:58

Image 24 – Sample station GM109 – (b) (6) Indoor Air Sampling Location
DSCN4555 – Taken 11/29/2016 16:58

Image 25 – Sample station GM119 – [redacted] Sub-Slab Soil Gas Sampling Location
DSCN4557 – Taken 11/30/2016 09:09

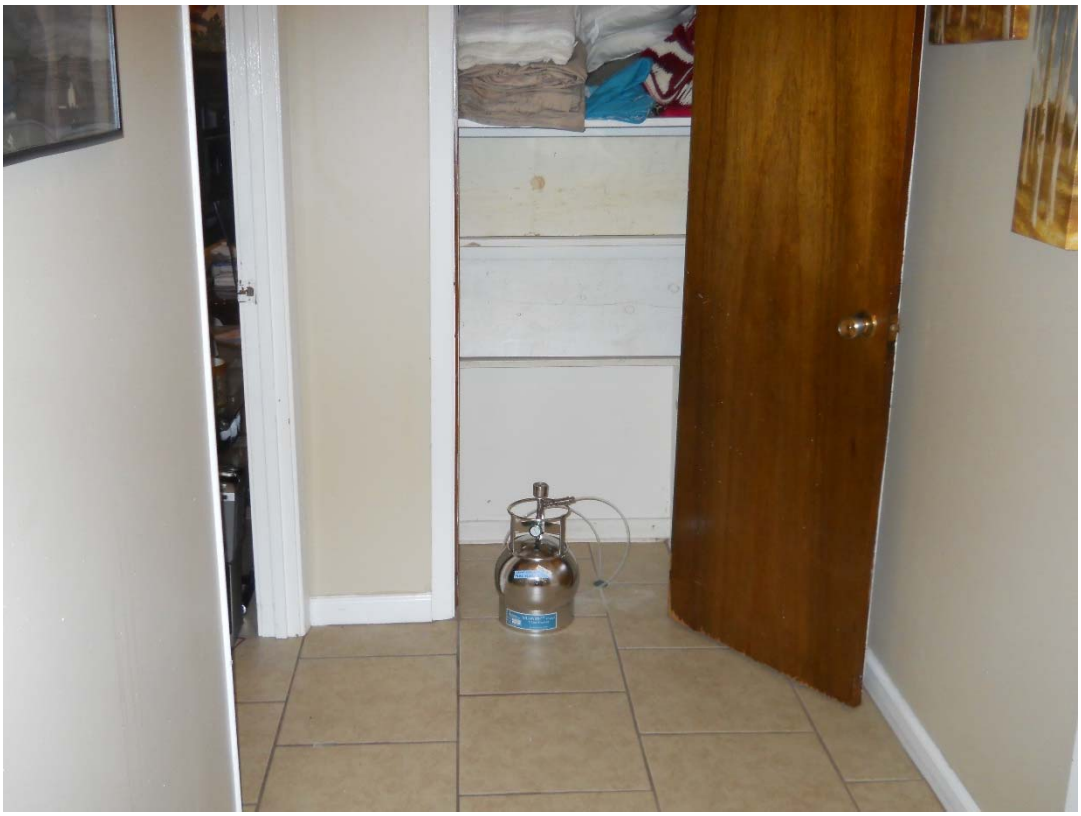

Image 26 – Sample station GM119 – [redacted] Indoor Air Sampling Location
DSCN4558 – Taken 11/30/2016 09:20

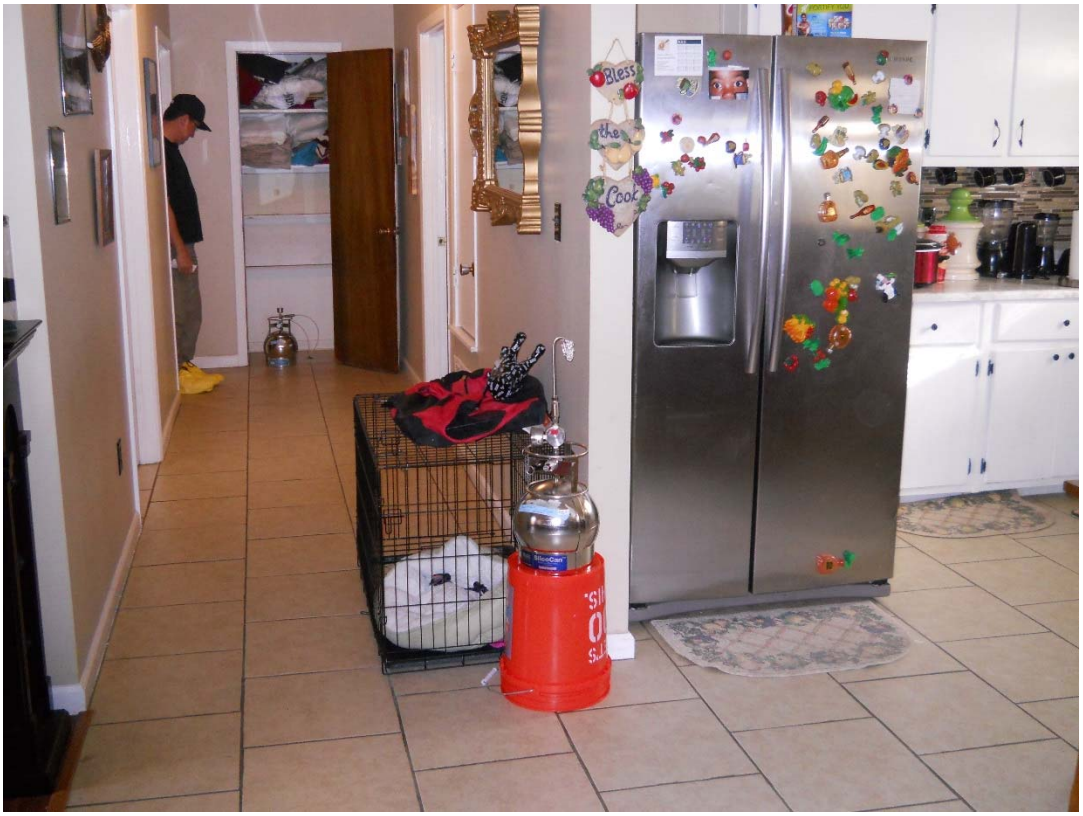

Image 27– Sample station GM116 – [redacted] Sub-Slab Sampling Location
DSCN4560 – Taken 11/30/2016 11:00

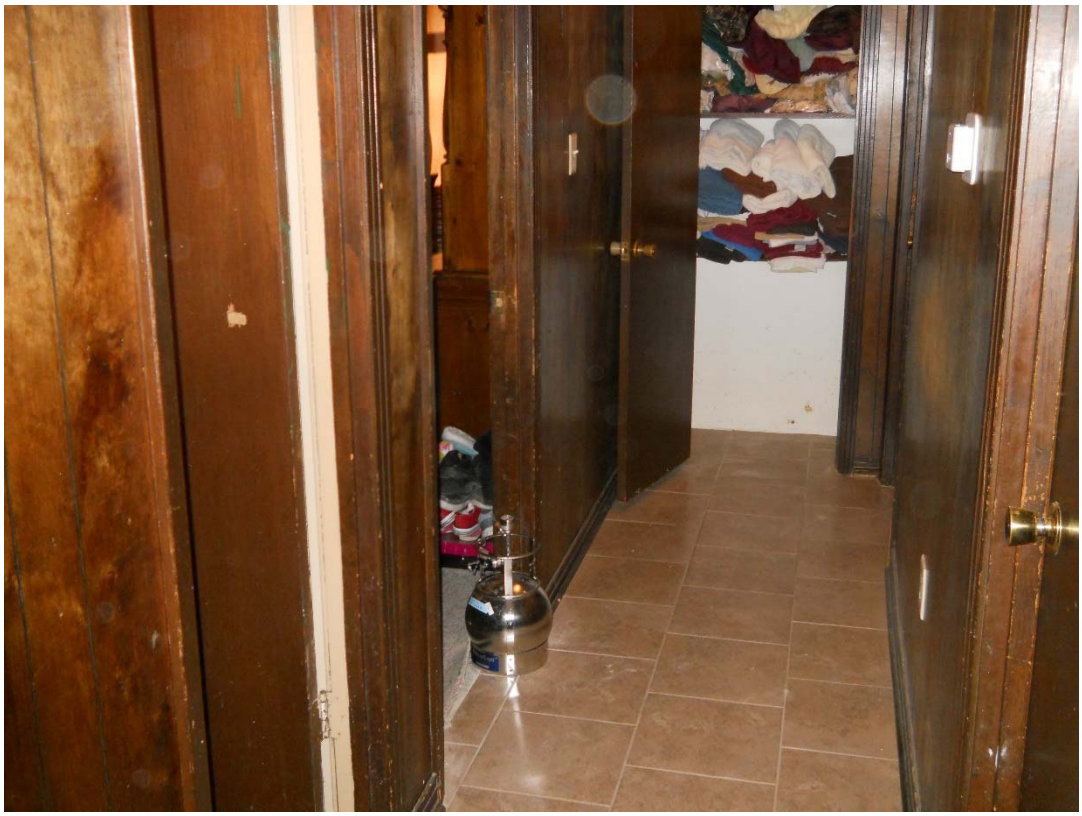

Image 28 – Sample station GM116 – [redacted] Indoor Air Sampling Location
DSCN4559 – Taken 11/30/2016 10:59

Image 29 – Sample station GM108 – [redacted] Sub-Slab Soil Gas Sampling Location
DSCN4561 – Taken 11/30/2016 11:28

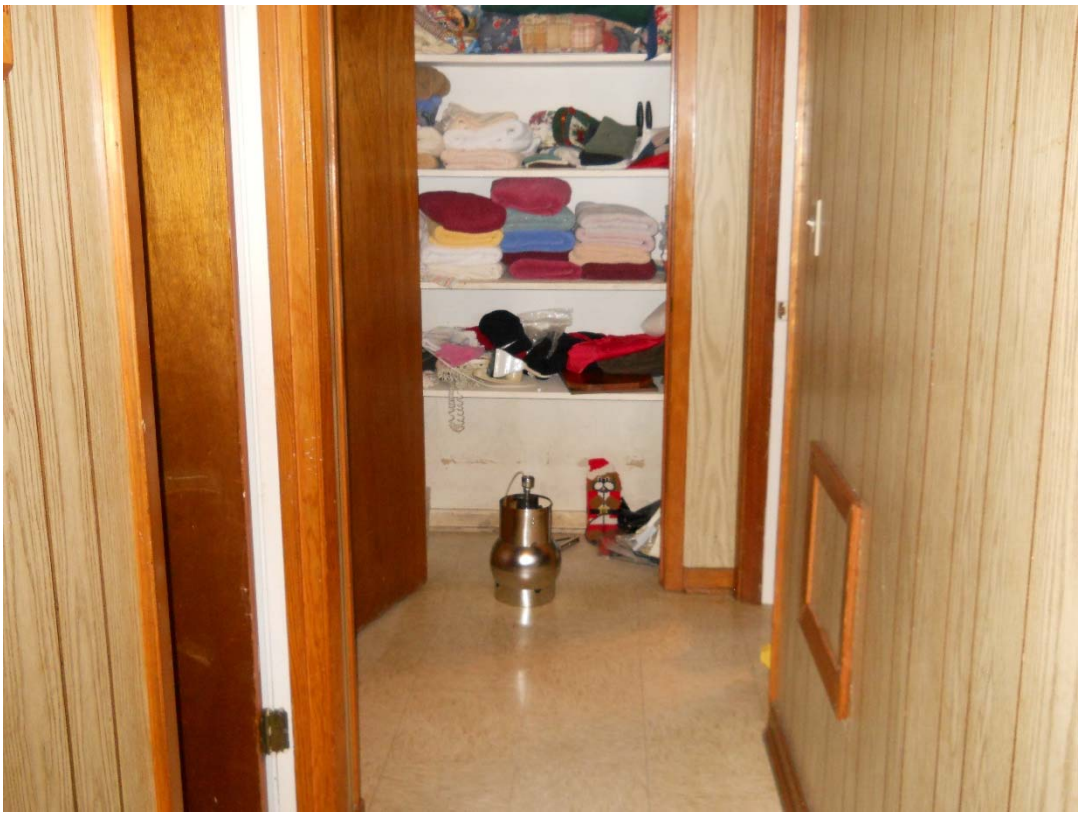

Image 30 – Sample station GM108 [redacted] Indoor Air Sampling Location
DSCN4562 – Taken 11/30/2016 11:29

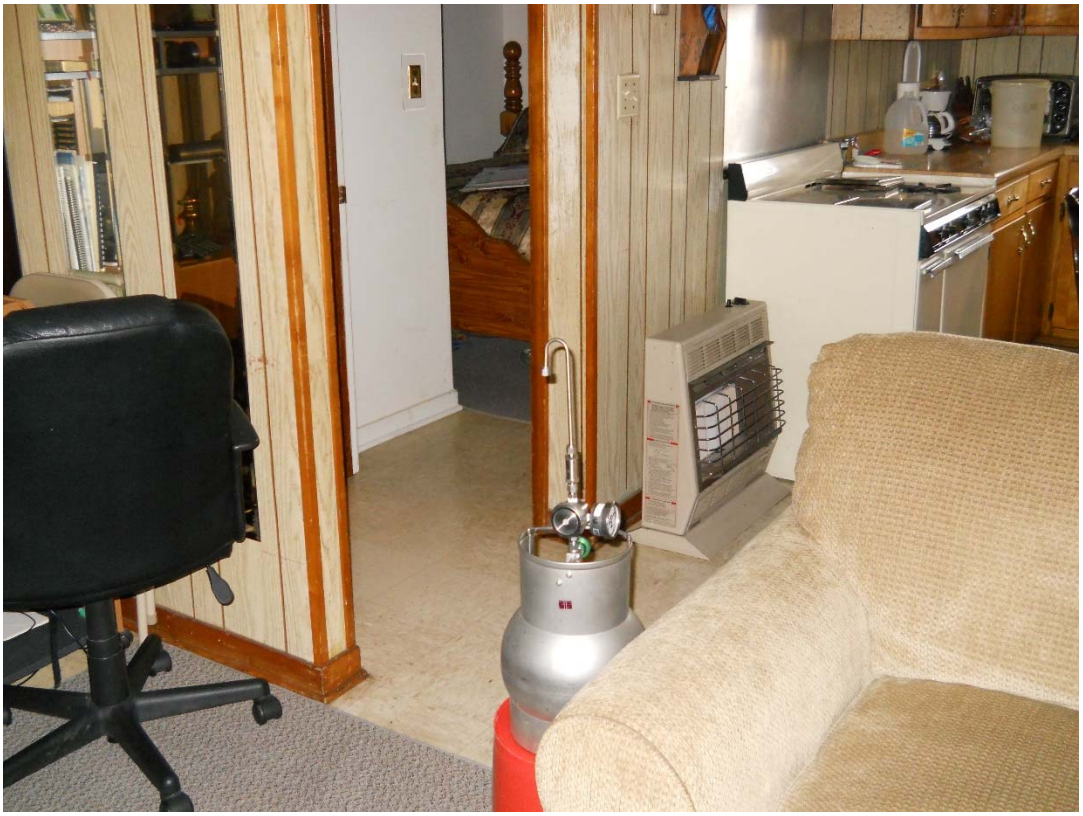

Image 31 – Sample station GM122 - (b) (6) Sub-Slab Soil Gas Sampling Location DSCN4563 – Taken 11/30/2016 11:46

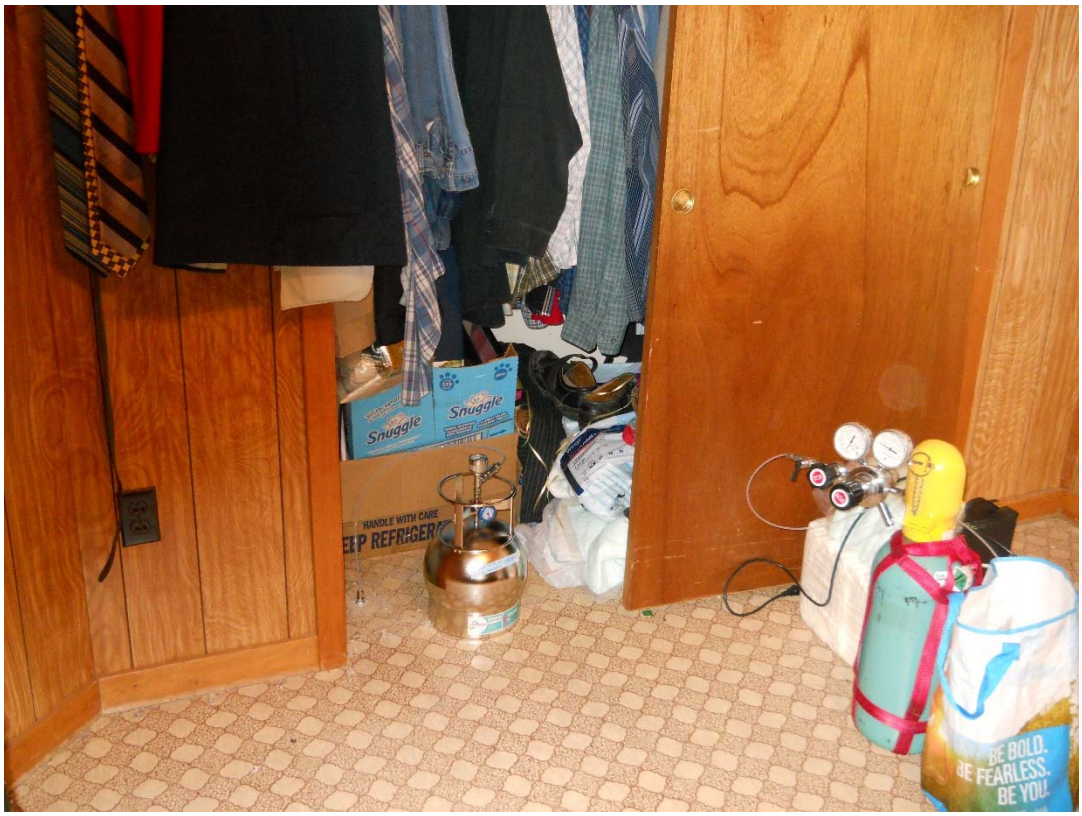

Image 32 – Sample station GM122 - (b) (6) Indoor Air Sampling Location DSCN4565 – Taken 11/30/2016 11:51 (co-located with Atlas sample)

Image 33 – Sample station GM118 – (b) (6) Sub Slab Soil Gas Sample Location
DSCN4566 – Taken 11/30/2016 13:57

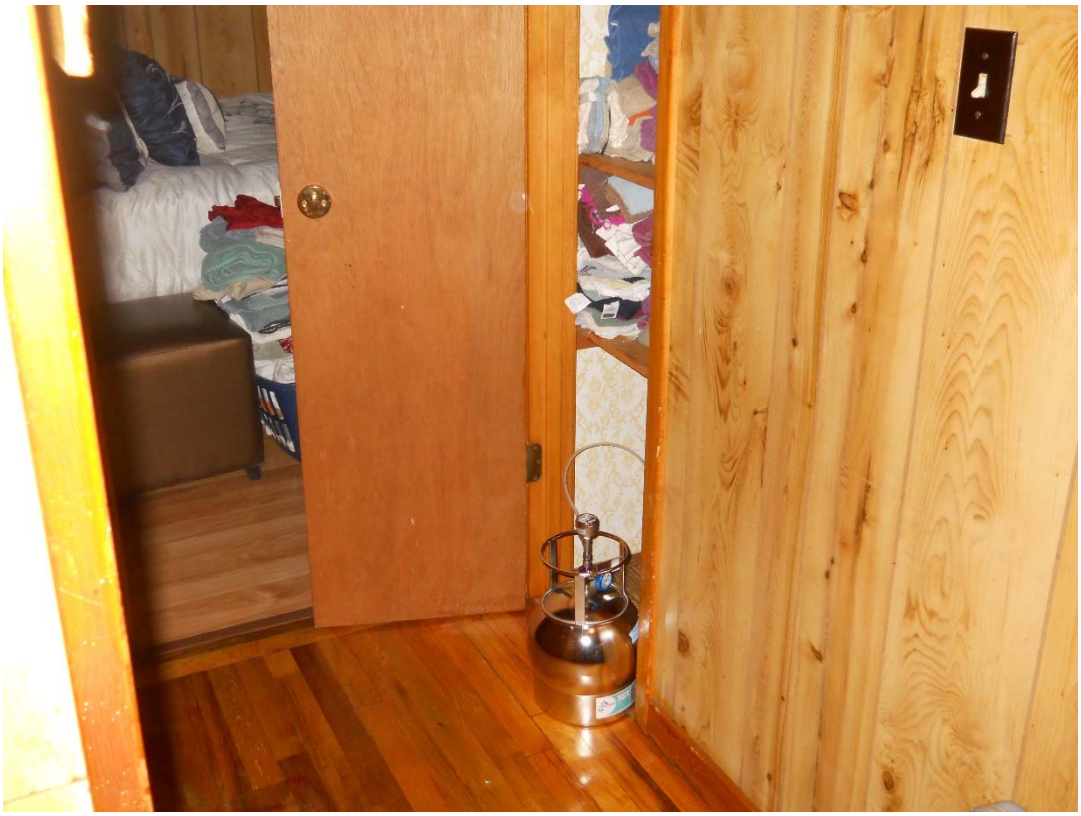

Image 34 – Sample station GM118 - (b) (6) Indoor Air Sampling Location
DSCN4567 – Taken 11/30/2016 13:59

Image 35 – Sample station GM117 – [redacted] Sub Slab Soil Gas (split) Sample Location DSCN4568 – Taken 11/30/2016 14:44

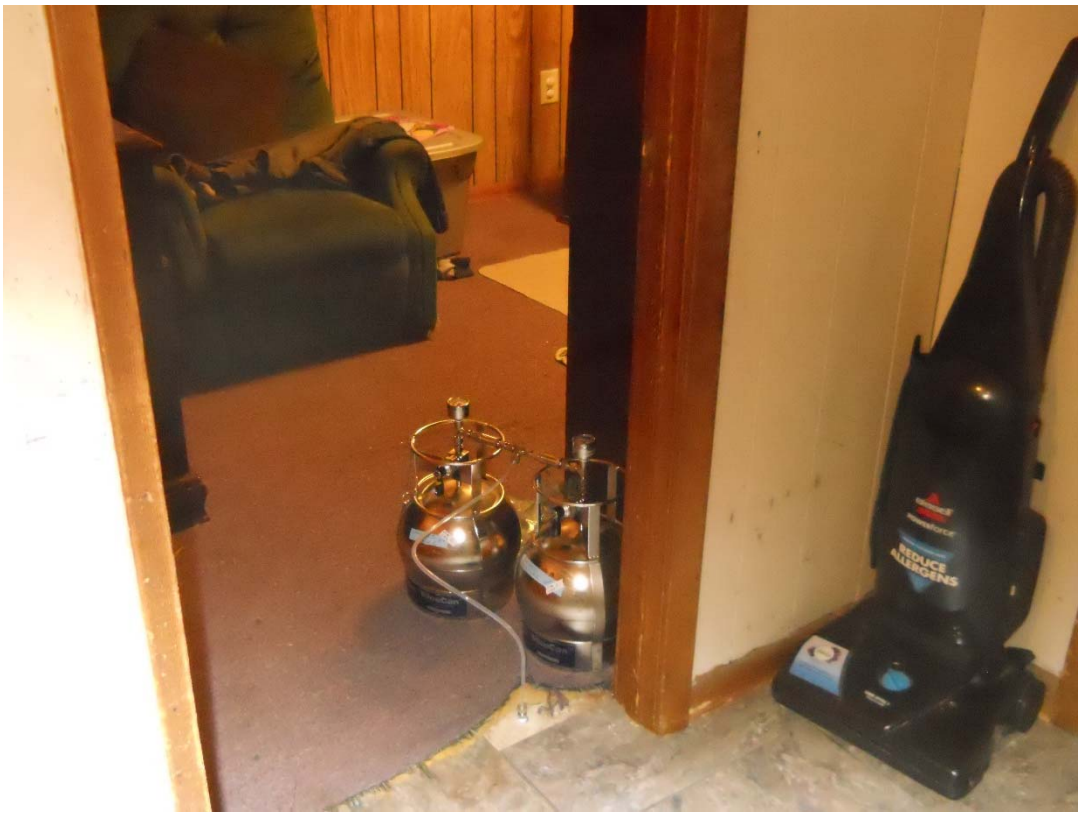

Image 36 – Sample station GM117 – [redacted] Indoor Air (co-located) Sampling Location DSCN4569 – Taken 11/30/2016 14:45

Image 37 – Sample station GM115 – [redacted] Sub Slab Soil Gas Sample Location
DSCN4570 – Taken 11/30/2016 15:58

Image 38 – Sample station GM115 – [redacted] Air Sampling Location
DSCN4571 – Taken 11/30/2016 15:58

Image 39 – Sample station GM120 – (b) (6) Sub Slab Soil Gas Sample Location DSCN4572 – Taken 11/30/2016 16:38

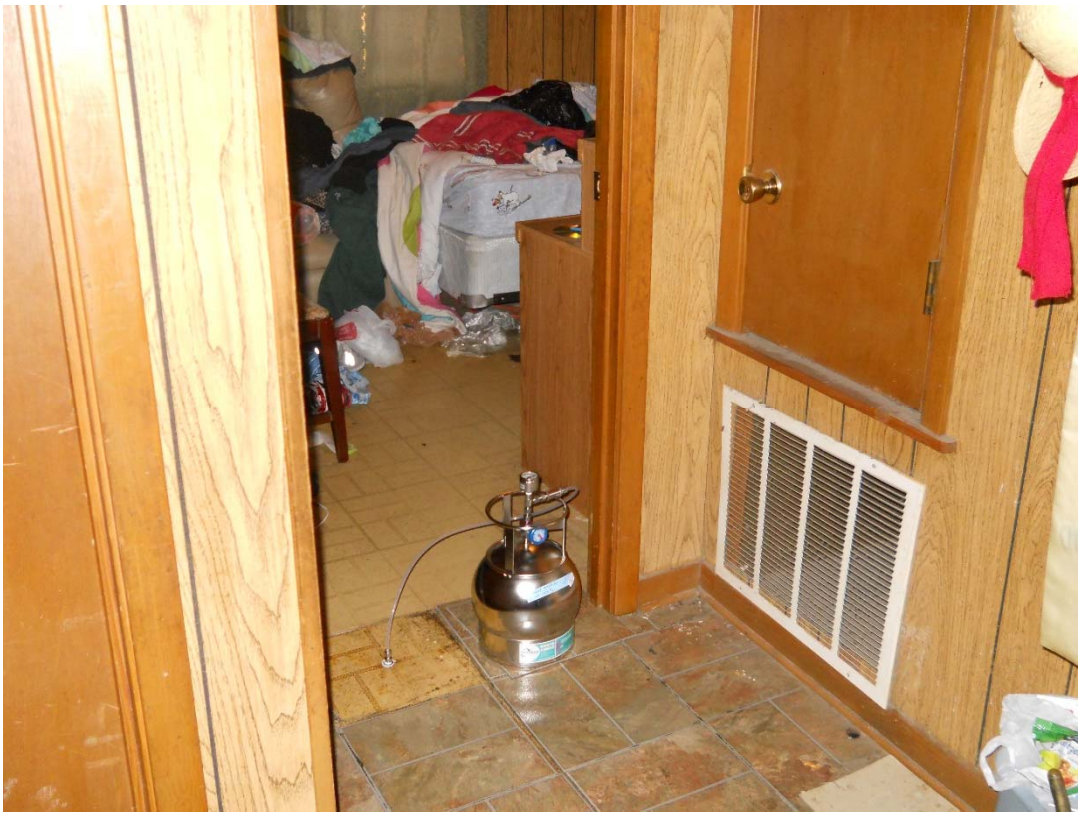

Image 40 – Sample station GM120 – (b) (6) Indoor Air Sampling Location DSCN4573 – Taken 11/30/2016 16:40

Image 41 – Sample station GM123 – (b) (6) Sub Slab Soil Gas Sample Location
DSCN4574 – Taken 12/01/2016 08:47

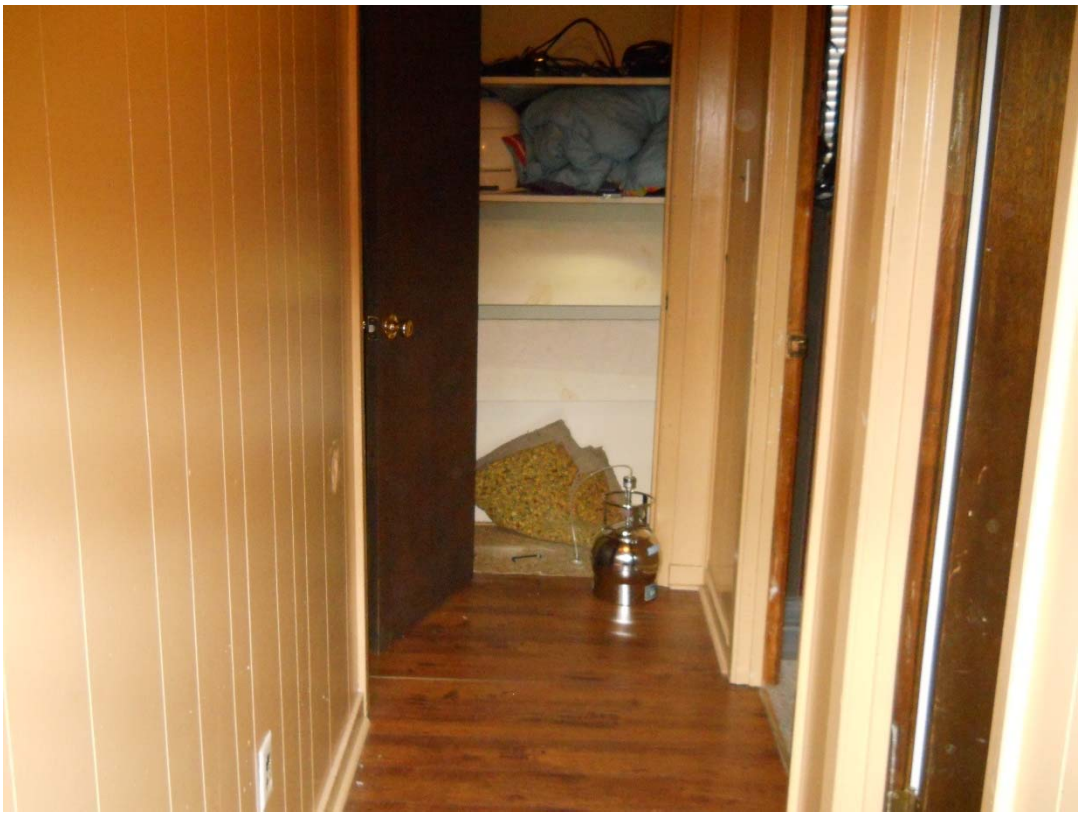

Image 42 – Sample station GM123 – (b) (6) Indoor Air Sampling Location
DSCN4575 – Taken 12/01/2016 08:54

Photograph Log

Digital Photo Identification Number	Date	Local Time	Sample Station	Photo Subject	Photographer
DSCN4530.JPG	11/29/2016	07:17	GM19	South Landfill AA sampling	Tim Slagle
DSCN4531.JPG	11/29/2016	07:26	GM18	North Landfill AA sampling	Tim Slagle
DSCN4532.JPG	11/29/2016	07:26	GM18	North Landfill AA sampling	Tim Slagle
DSCN4533.JPG	11/29/2016	07:34	GM02	Old Water Treatment Plant AA sampling	Tim Slagle
DSCN4534.JPG	11/29/2016	07:35	GM02	Old Water Treatment Plant AA sampling	Tim Slagle
DSCN4535.JPG	11/29/2016	07:48	GM01	South AA sampling	Tim Slagle
DSCN4536.JPG	11/29/2016	07:56	GM11	West AA sampling	Tim Slagle
DSCN4537.JPG	11/29/2016	08:03	GM12	North AA sampling	Tim Slagle
DSCN4538.JPG	11/29/2016	08:12	GM13	East AA sampling	Tim Slagle
DSCN4539.JPG	11/29/2016	09:58	GM111	[redacted] SS sampling	Tim Slagle
DSCN4540.JPG	11/29/2016	09:59	GM111	[redacted] IA sampling	Tim Slagle
DSCN4541.JPG	11/29/2016	10:25	GM114	[redacted] SS sampling	Tim Slagle
DSCN4542.JPG	11/29/2016	10:28	GM114	[redacted] IA sampling	Tim Slagle
DSCN4543.JPG	11/29/2016	10:35	GM114	[redacted] IA sampling	Tim Slagle
DSCN4544.JPG	11/29/2016	11:26	GM107	[redacted] SS sampling	Tim Slagle
DSCN4545.JPG	11/29/2016	11:39	GM107	[redacted] IA sampling	Tim Slagle
DSCN4546.JPG	11/29/2016	13:48	GM110	[redacted] Circle SS sampling	Tim Slagle
DSCN4547.JPG	11/29/2016	13:49	GM110	[redacted] Circle IA sampling	Tim Slagle
DSCN4548.JPG	11/29/2016	14:18	GM112	[redacted] Circle SS sampling	Tim Slagle
DSCN4549.JPG	11/29/2016	14:20	GM112	[redacted] Circle IA sampling	Tim Slagle
DSCN4550.JPG	11/29/2016	15:19	GM113	[redacted] Circle SS sampling	Tim Slagle
DSCN4551.JPG	11/29/2016	15:20	GM113	[redacted] Circle IA sampling	Tim Slagle
DSCN4552.JPG	11/29/2016	16:11	GM121	[redacted] SS sampling	Tim Slagle
DSCN4553.JPG	11/29/2016	16:15	GM121	[redacted] IA sampling	Tim Slagle
DSCN4554.JPG	11/29/2016	16:58	GM109	[redacted] SS sampling	Tim Slagle
DSCN4555.JPG	11/29/2016	16:58	GM109	[redacted] IA sampling	Tim Slagle
DSCN4556.JPG	11/30/2016	08:01	GM11	Relocated West-AA sampling	Tim Slagle
DSCN4557.JPG	11/30/2016	09:09	GM119	[redacted] SS sampling	Tim Slagle
DSCN4558.JPG	11/30/2016	09:20	GM119	[redacted] IA sampling	Tim Slagle
DSCN4559.JPG	11/30/2016	10:59	GM116	[redacted] IA sampling	Tim Slagle
DSCN4560.JPG	11/30/2016	11:00	GM116	[redacted] SS sampling	Tim Slagle
DSCN4561.JPG	11/30/2016	11:28	GM108	[redacted] SS sampling	Tim Slagle
DSCN4562.JPG	11/30/2016	11:29	GM108	[redacted] IA sampling	Tim Slagle
DSCN4563.JPG	11/30/2016	11:46	GM122	[redacted] SS sampling	Tim Slagle
DSCN4564.JPG	11/30/2016	11:49	GM122	[redacted] proposed IA location	Tim Slagle
	IA = Indoor Air				
	AA = Ambient Air (outdoor air)				
	SS = Sub-Slab Soil Gas (the sample is collected under the floor slab)				

Photograph Log continued

Digital Photo Identification Number	Date	Local Time	Sample Station	Photo Subject	Photographer
DSCN4565.JPG	11/30/2016	11:51	GM122	[redacted] IA sampling	Tim Slagle
DSCN4566.JPG	11/30/2016	13:57	GM118	[redacted] SS sampling	Tim Slagle
DSCN4567.JPG	11/30/2016	13:59	GM118	[redacted] IA sampling	Tim Slagle
DSCN4568.JPG	11/30/2016	14:44	GM117	[redacted] SS sampling	Tim Slagle
DSCN4569.JPG	11/30/2016	14:45	GM117	[redacted] IA sampling	Tim Slagle
DSCN4570.JPG	11/30/2016	15:58	GM115	[redacted] SS sampling	Tim Slagle
DSCN4571.JPG	11/30/2016	15:58	GM115	[redacted] IA sampling	Tim Slagle
DSCN4572.JPG	11/30/2016	16:38	GM120	[redacted] SS sampling	Tim Slagle
DSCN4573.JPG	11/30/2016	16:40	GM120	[redacted] IA sampling	Tim Slagle
DSCN4574.JPG	12/1/2016	08:47	GM123	[redacted] SS sampling	Tim Slagle
DSCN4575.JPG	12/1/2016	08:54	GM123	[redacted] IA sampling	Tim Slagle
	IA = Indoor Air				
	AA = Ambient Air (outdoor air)				
	SS = Sub-Slab Soil Gas (the sample is collected under the floor slab)				

Photographs


DSCN4530.JPG


DSCN4531.JPG


DSCN4532.JPG


DSCN4533.JPG


DSCN4534.JPG


DSCN4535.JPG


DSCN4536.JPG


DSCN4537.JPG


DSCN4538.JPG


DSCN4539.JPG


DSCN4540.JPG


DSCN4541.JPG


DSCN4542.JPG


DSCN4543.JPG


DSCN4544.JPG


DSCN4545.JPG


DSCN4546.JPG


DSCN4547.JPG


DSCN4548.JPG


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DSCN4560.JPG


DSCN4561.JPG


DSCN4562.JPG


DSCN4563.JPG


DSCN4564.JPG

Photographs continued


DSCN4565.JPG


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DSCN4567.JPG


DSCN4568.JPG


DSCN4569.JPG


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Appendix E

Attachments

(Each attachment is individually numbered)

FINAL Analytical Report – VOC Air (80 pages)
Field Sampling Logbook (47 pages)
Chain of Custody (7 pages)

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 16-0152
Project: 17-0050, Grenada Manufacturing - Reported by Sallie Hale

January 9, 2017

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 17-0050, Grenada Manufacturing
Resource Conservation and Recovery Act

FROM: Sallie Hale
OCS Analyst

THRU: Jeffrey Hendel, Chief
ASB Organic Chemistry Section

TO: Tim Slagle

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Volatile Organics (VOA)		
Volatile organic compounds	EPA TO-15 (Air)	ISO

Report Narrative for Work Order: E165002

01/09/17 SJH: Ambient air samples -61 and -64 were not analyzed because the cans showed no measurable pressure and were thus declared VOID. Samples -60 and -63, also ambient air, had initial pressures below 10 psia and water in their inlets but were analyzed anyway.

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov, and provide a reason for holding samples beyond 60 days

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 16-0152
Project: 17-0050, Grenada Manufacturing - Reported by Sallie Hale

SAMPLES INCLUDED IN THIS REPORT

Project: 17-0050, Grenada Manufacturing

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
GMTBA1116	E165002-01	Trip Blank Air	11/29/16 07:10	12/5/16 10:30
GMTBB1116	E165002-02	Trip Blank Air	11/30/16 07:40	12/5/16 10:30
GMTBC1116	E165002-03	Trip Blank Air	12/1/16 07:12	12/5/16 10:30
GM01AA1116	E165002-04	Ambient Air	11/29/16 07:44	12/5/16 10:30
GM01AA1116D	E165002-05	Ambient Air	11/29/16 07:44	12/5/16 10:30
GM01AA21116	E165002-06	Ambient Air	11/30/16 07:40	12/5/16 10:30
GM01AA21116D	E165002-07	Ambient Air	11/30/16 07:40	12/5/16 10:30
GM01AA31116	E165002-08	Ambient Air	12/1/16 07:45	12/5/16 10:30
GM01AA31116D	E165002-09	Ambient Air	12/1/16 07:45	12/5/16 10:30
GM02AA1116	E165002-10	Ambient Air	11/29/16 07:28	12/5/16 10:30
GM02AA21116	E165002-11	Ambient Air	11/30/16 07:28	12/5/16 10:30
GM02AA31116	E165002-12	Ambient Air	12/1/16 07:35	12/5/16 10:30
GM107IA1116	E165002-13	Indoor Air	11/29/16 12:00	12/5/16 10:30
GM107IA1116D	E165002-14	Indoor Air	11/29/16 12:00	12/5/16 10:30
GM107SS1116	E165002-15	Soil Gas	11/29/16 11:18	12/5/16 10:30
GM107SS1116S	E165002-16	Soil Gas	11/29/16 11:18	12/5/16 10:30
GM108IA1116	E165002-17	Indoor Air	11/30/16 11:37	12/5/16 10:30
GM108SS1116	E165002-18	Soil Gas	11/30/16 10:38	12/5/16 10:30
GM109IA1116	E165002-19	Indoor Air	11/29/16 17:25	12/5/16 10:30
GM109SS1116	E165002-20	Soil Gas	11/29/16 16:44	12/5/16 10:30
GM11AA1116	E165002-21	Ambient Air	11/29/16 07:50	12/5/16 10:30
GM11AA21116	E165002-22	Ambient Air	11/30/16 07:51	12/5/16 10:30
GM11AA31116	E165002-23	Ambient Air	12/1/16 07:54	12/5/16 10:30
GM110IA1116	E165002-24	Indoor Air	11/29/16 14:27	12/5/16 10:30
GM110SS1116	E165002-25	Soil Gas	11/29/16 13:42	12/5/16 10:30
GM111IA1116	E165002-26	Indoor Air	11/29/16 10:22	12/5/16 10:30
GM111SS1116	E165002-27	Soil Gas	11/29/16 09:43	12/5/16 10:30
GM112IA1116	E165002-28	Indoor Air	11/29/16 14:53	12/5/16 10:30
GM112SS1116	E165002-29	Soil Gas	11/29/16 14:12	12/5/16 10:30
GM113IA1116	E165002-30	Indoor Air	11/29/16 16:00	12/5/16 10:30
GM113SS1116	E165002-31	Soil Gas	11/29/16 15:15	12/5/16 10:30
GM114IA1116	E165002-32	Indoor Air	11/29/16 11:04	12/5/16 10:30
GM114SS1116	E165002-33	Soil Gas	11/29/16 10:20	12/5/16 10:30
GM115IA1116	E165002-34	Indoor Air	11/30/16 16:36	12/5/16 10:30

GM115SS1116	E165002-35	Soil Gas	11/30/16 15:49	12/5/16 10:30
GM116IA1116	E165002-36	Indoor Air	11/30/16 10:57	12/5/16 10:30
GM116SS1116	E165002-37	Soil Gas	11/30/16 09:57	12/5/16 10:30
GM117IA1116	E165002-38	Indoor Air	11/30/16 15:22	12/5/16 10:30
GM117IA1116D	E165002-39	Indoor Air	11/30/16 15:22	12/5/16 10:30
GM117SS1116	E165002-40	Soil Gas	11/30/16 14:37	12/5/16 10:30
GM117SS1116S	E165002-41	Soil Gas	11/30/16 14:37	12/5/16 10:30
GM118IA1116	E165002-42	Indoor Air	11/30/16 14:45	12/5/16 10:30
GM118SS1116	E165002-43	Soil Gas	11/30/16 13:52	12/5/16 10:30
GM119IA1116	E165002-44	Indoor Air	11/30/16 10:14	12/5/16 10:30
GM119SS1116	E165002-45	Soil Gas	11/30/16 09:04	12/5/16 10:30
GM12AA1116	E165002-46	Ambient Air	11/29/16 08:00	12/5/16 10:30
GM12AA21116	E165002-47	Ambient Air	11/30/16 08:05	12/5/16 10:30
GM12AA31116	E165002-48	Ambient Air	12/1/16 08:00	12/5/16 10:30
GM120IA1116	E165002-49	Indoor Air	11/30/16 17:23	12/5/16 10:30
GM120SS1116	E165002-50	Soil Gas	11/30/16 16:30	12/5/16 10:30
GM121IA1116	E165002-51	Indoor Air	11/29/16 16:50	12/5/16 10:30
GM121SS1116	E165002-52	Soil Gas	11/29/16 16:05	12/5/16 10:30
GM122IA1116	E165002-53	Indoor Air	11/30/16 12:32	12/5/16 10:30
GM122SS1116	E165002-54	Soil Gas	11/30/16 11:41	12/5/16 10:30
GM123IA1116	E165002-55	Indoor Air	12/1/16 09:37	12/5/16 10:30
GM123SS1116	E165002-56	Soil Gas	12/1/16 08:38	12/5/16 10:30
GM13AA1116	E165002-57	Ambient Air	11/29/16 08:08	12/5/16 10:30
GM13AA21116	E165002-58	Ambient Air	11/30/16 08:15	12/5/16 10:30
GM13AA31116	E165002-59	Ambient Air	12/1/16 08:10	12/5/16 10:30
GM18AA1116	E165002-60	Ambient Air	11/29/16 07:21	12/5/16 10:30
GM18AA31116	E165002-62	Ambient Air	12/1/16 07:25	12/5/16 10:30
GM19AA1116	E165002-63	Ambient Air	11/29/16 07:12	12/5/16 10:30
GM19AA31116	E165002-65	Ambient Air	12/1/16 07:13	12/5/16 10:30

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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
D-2	Due to Matrix Interference, the sample cannot be accurately quantified. The reported result is estimated.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.

NR The EPA Region 4 Laboratory has not requested accreditation for this test.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 16-0152
Project: 17-0050, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GMTBA1116 **Lab ID:** E165002-01

Station ID: **Matrix:** Trip Blank Air

Date Collected: 11/29/16 7:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.4	U	ug/m3	4.4	12/06/16 15:21	12/13/16 21:45	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.7	U	ug/m3	2.7	12/06/16 15:21	12/13/16 21:45	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	1.9	12/06/16 15:21	12/13/16 21:45	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.5	U	ug/m3	2.5	12/06/16 15:21	12/13/16 21:45	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	U	ug/m3	2.0	12/06/16 15:21	12/13/16 21:45	EPA TO-15
71-43-2	Benzene	1.6	U	ug/m3	1.6	12/06/16 15:21	12/13/16 21:45	EPA TO-15
67-66-3	Chloroform	2.4	U	ug/m3	2.4	12/06/16 15:21	12/13/16 21:45	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/06/16 15:21	12/13/16 21:45	EPA TO-15
100-41-4	Ethyl Benzene	2.2	U	ug/m3	2.2	12/06/16 15:21	12/13/16 21:45	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/06/16 15:21	12/13/16 21:45	EPA TO-15
95-47-6	o-Xylene	2.2	U	ug/m3	2.2	12/06/16 15:21	12/13/16 21:45	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.4	U	ug/m3	3.4	12/06/16 15:21	12/13/16 21:45	EPA TO-15
108-88-3	Toluene	1.9	U	ug/m3	1.9	12/06/16 15:21	12/13/16 21:45	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/06/16 15:21	12/13/16 21:45	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	2.7	12/06/16 15:21	12/13/16 21:45	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/06/16 15:21	12/13/16 21:45	EPA TO-15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 16-0152
Project: 17-0050, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GMTBB1116 **Lab ID:** E165002-02

Station ID: **Matrix:** Trip Blank Air

Date Collected: 11/30/16 7:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.1	U	ug/m3	4.1	12/13/16 22:37	12/15/16 21:06	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	2.5	12/13/16 22:37	12/15/16 21:06	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	1.7	12/13/16 22:37	12/15/16 21:06	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.3	U	ug/m3	2.3	12/13/16 22:37	12/15/16 21:06	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	1.8	12/13/16 22:37	12/15/16 21:06	EPA TO-15
71-43-2	Benzene	1.5	U	ug/m3	1.5	12/13/16 22:37	12/15/16 21:06	EPA TO-15
67-66-3	Chloroform	2.2	U	ug/m3	2.2	12/13/16 22:37	12/15/16 21:06	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/13/16 22:37	12/15/16 21:06	EPA TO-15
100-41-4	Ethyl Benzene	2.0	U	ug/m3	2.0	12/13/16 22:37	12/15/16 21:06	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	1.5	12/13/16 22:37	12/15/16 21:06	EPA TO-15
95-47-6	o-Xylene	2.0	U	ug/m3	2.0	12/13/16 22:37	12/15/16 21:06	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.1	U	ug/m3	3.1	12/13/16 22:37	12/15/16 21:06	EPA TO-15
108-88-3	Toluene	1.7	U	ug/m3	1.7	12/13/16 22:37	12/15/16 21:06	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.9	U	ug/m3	1.9	12/13/16 22:37	12/15/16 21:06	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.5	U	ug/m3	2.5	12/13/16 22:37	12/15/16 21:06	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	12/13/16 22:37	12/15/16 21:06	EPA TO-15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 16-0152
Project: 17-0050, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GMTBC1116 **Lab ID:** E165002-03

Station ID: **Matrix:** Trip Blank Air

Date Collected: 12/1/16 7:12

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.4	U	ug/m3	4.4	12/14/16 14:41	12/16/16 23:21	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	12/14/16 14:41	12/16/16 23:21	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	1.9	12/14/16 14:41	12/16/16 23:21	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.5	U	ug/m3	2.5	12/14/16 14:41	12/16/16 23:21	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	U	ug/m3	2.0	12/14/16 14:41	12/16/16 23:21	EPA TO-15
71-43-2	Benzene	1.6	U	ug/m3	1.6	12/14/16 14:41	12/16/16 23:21	EPA TO-15
67-66-3	Chloroform	2.4	U	ug/m3	2.4	12/14/16 14:41	12/16/16 23:21	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/14/16 14:41	12/16/16 23:21	EPA TO-15
100-41-4	Ethyl Benzene	2.2	U	ug/m3	2.2	12/14/16 14:41	12/16/16 23:21	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/14/16 14:41	12/16/16 23:21	EPA TO-15
95-47-6	o-Xylene	2.2	U	ug/m3	2.2	12/14/16 14:41	12/16/16 23:21	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.4	U	ug/m3	3.4	12/14/16 14:41	12/16/16 23:21	EPA TO-15
108-88-3	Toluene	1.9	U	ug/m3	1.9	12/14/16 14:41	12/16/16 23:21	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/14/16 14:41	12/16/16 23:21	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	2.7	12/14/16 14:41	12/16/16 23:21	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/14/16 14:41	12/16/16 23:21	EPA TO-15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 16-0152
Project: 17-0050, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM01AA1116 **Lab ID:** E165002-04

Station ID: GM01 **Matrix:** Ambient Air

Date Collected: 11/29/16 7:44

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.4	U	ug/m3	4.4	12/06/16 15:21	12/13/16 22:37	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	12/06/16 15:21	12/13/16 22:37	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	1.9	12/06/16 15:21	12/13/16 22:37	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.5	U	ug/m3	2.5	12/06/16 15:21	12/13/16 22:37	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	U	ug/m3	2.0	12/06/16 15:21	12/13/16 22:37	EPA TO-15
71-43-2	Benzene	0.31	J, Q-2	ug/m3	1.6	12/06/16 15:21	12/13/16 22:37	EPA TO-15
67-66-3	Chloroform	2.4	U	ug/m3	2.4	12/06/16 15:21	12/13/16 22:37	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/06/16 15:21	12/13/16 22:37	EPA TO-15
100-41-4	Ethyl Benzene	2.2	U	ug/m3	2.2	12/06/16 15:21	12/13/16 22:37	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/06/16 15:21	12/13/16 22:37	EPA TO-15
95-47-6	o-Xylene	2.2	U	ug/m3	2.2	12/06/16 15:21	12/13/16 22:37	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.4	U	ug/m3	3.4	12/06/16 15:21	12/13/16 22:37	EPA TO-15
108-88-3	Toluene	0.40	J, Q-2	ug/m3	1.9	12/06/16 15:21	12/13/16 22:37	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/06/16 15:21	12/13/16 22:37	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	2.7	12/06/16 15:21	12/13/16 22:37	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/06/16 15:21	12/13/16 22:37	EPA TO-15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 16-0152
Project: 17-0050, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM01AA1116D **Lab ID:** E165002-05

Station ID: GM01 **Matrix:** Ambient Air

Date Collected: 11/29/16 7:44

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.4	U	ug/m3	4.4	12/06/16 15:21	12/13/16 23:30	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	12/06/16 15:21	12/13/16 23:30	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	1.9	12/06/16 15:21	12/13/16 23:30	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.5	U	ug/m3	2.5	12/06/16 15:21	12/13/16 23:30	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	U	ug/m3	2.0	12/06/16 15:21	12/13/16 23:30	EPA TO-15
71-43-2	Benzene	0.31	J, Q-2	ug/m3	1.6	12/06/16 15:21	12/13/16 23:30	EPA TO-15
67-66-3	Chloroform	2.4	U	ug/m3	2.4	12/06/16 15:21	12/13/16 23:30	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/06/16 15:21	12/13/16 23:30	EPA TO-15
100-41-4	Ethyl Benzene	2.2	U	ug/m3	2.2	12/06/16 15:21	12/13/16 23:30	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/06/16 15:21	12/13/16 23:30	EPA TO-15
95-47-6	o-Xylene	2.2	U	ug/m3	2.2	12/06/16 15:21	12/13/16 23:30	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.4	U	ug/m3	3.4	12/06/16 15:21	12/13/16 23:30	EPA TO-15
108-88-3	Toluene	0.36	J, Q-2	ug/m3	1.9	12/06/16 15:21	12/13/16 23:30	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/06/16 15:21	12/13/16 23:30	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	2.7	12/06/16 15:21	12/13/16 23:30	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/06/16 15:21	12/13/16 23:30	EPA TO-15

Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM01AA21116 **Lab ID:** E165002-06

Station ID: GM01 **Matrix:** Ambient Air

Date Collected: 11/30/16 7:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.60	J, Q-2	ug/m3	4.2	12/06/16 15:21	12/14/16 0:44	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.6	U	ug/m3	2.6	12/06/16 15:21	12/14/16 0:44	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.8	U	ug/m3	1.8	12/06/16 15:21	12/14/16 0:44	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.39	J, Q-2	ug/m3	2.4	12/06/16 15:21	12/14/16 0:44	EPA TO-15
107-06-2	1,2-Dichloroethane	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 0:44	EPA TO-15
71-43-2	Benzene	0.52	J, Q-2	ug/m3	1.5	12/06/16 15:21	12/14/16 0:44	EPA TO-15
67-66-3	Chloroform	2.3	U	ug/m3	2.3	12/06/16 15:21	12/14/16 0:44	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 0:44	EPA TO-15
100-41-4	Ethyl Benzene	2.1	U	ug/m3	2.1	12/06/16 15:21	12/14/16 0:44	EPA TO-15
75-09-2	Methylene Chloride	1.6	U	ug/m3	1.6	12/06/16 15:21	12/14/16 0:44	EPA TO-15
95-47-6	o-Xylene	0.27	J, Q-2	ug/m3	2.1	12/06/16 15:21	12/14/16 0:44	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.2	U	ug/m3	3.2	12/06/16 15:21	12/14/16 0:44	EPA TO-15
108-88-3	Toluene	0.85	J, Q-2	ug/m3	1.8	12/06/16 15:21	12/14/16 0:44	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/06/16 15:21	12/14/16 0:44	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.5	U	ug/m3	2.5	12/06/16 15:21	12/14/16 0:44	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	12/06/16 15:21	12/14/16 0:44	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM01AA21116D **Lab ID:** E165002-07
Station ID: GM01 **Matrix:** Ambient Air

Date Collected: 11/30/16 7:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.49	J, Q-2	ug/m3	4.3	12/06/16 15:21	12/14/16 1:39	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.7	U	ug/m3	2.7	12/06/16 15:21	12/14/16 1:39	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.8	U	ug/m3	1.8	12/06/16 15:21	12/14/16 1:39	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.35	J, Q-2	ug/m3	2.4	12/06/16 15:21	12/14/16 1:39	EPA TO-15
107-06-2	1,2-Dichloroethane	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 1:39	EPA TO-15
71-43-2	Benzene	0.47	J, Q-2	ug/m3	1.5	12/06/16 15:21	12/14/16 1:39	EPA TO-15
67-66-3	Chloroform	2.3	U	ug/m3	2.3	12/06/16 15:21	12/14/16 1:39	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 1:39	EPA TO-15
100-41-4	Ethyl Benzene	2.1	U	ug/m3	2.1	12/06/16 15:21	12/14/16 1:39	EPA TO-15
75-09-2	Methylene Chloride	1.6	U	ug/m3	1.6	12/06/16 15:21	12/14/16 1:39	EPA TO-15
95-47-6	o-Xylene	0.24	J, Q-2	ug/m3	2.1	12/06/16 15:21	12/14/16 1:39	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.3	U	ug/m3	3.3	12/06/16 15:21	12/14/16 1:39	EPA TO-15
108-88-3	Toluene	0.74	J, Q-2	ug/m3	1.8	12/06/16 15:21	12/14/16 1:39	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/06/16 15:21	12/14/16 1:39	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.6	U	ug/m3	2.6	12/06/16 15:21	12/14/16 1:39	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	12/06/16 15:21	12/14/16 1:39	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM01AA31116 **Lab ID:** E165002-08

Station ID: GM01 **Matrix:** Ambient Air

Date Collected: 12/1/16 7:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.43	J, Q-2	ug/m3	4.3	12/06/16 15:21	12/14/16 2:31	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.7	U	ug/m3	2.7	12/06/16 15:21	12/14/16 2:31	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.8	U	ug/m3	1.8	12/06/16 15:21	12/14/16 2:31	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.57	J, Q-2	ug/m3	2.4	12/06/16 15:21	12/14/16 2:31	EPA TO-15
107-06-2	1,2-Dichloroethane	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 2:31	EPA TO-15
71-43-2	Benzene	0.47	J, Q-2	ug/m3	1.5	12/06/16 15:21	12/14/16 2:31	EPA TO-15
67-66-3	Chloroform	2.3	U	ug/m3	2.3	12/06/16 15:21	12/14/16 2:31	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 2:31	EPA TO-15
100-41-4	Ethyl Benzene	2.1	U	ug/m3	2.1	12/06/16 15:21	12/14/16 2:31	EPA TO-15
75-09-2	Methylene Chloride	1.6	U	ug/m3	1.6	12/06/16 15:21	12/14/16 2:31	EPA TO-15
95-47-6	o-Xylene	0.24	J, Q-2	ug/m3	2.1	12/06/16 15:21	12/14/16 2:31	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.3	U	ug/m3	3.3	12/06/16 15:21	12/14/16 2:31	EPA TO-15
108-88-3	Toluene	0.72	J, Q-2	ug/m3	1.8	12/06/16 15:21	12/14/16 2:31	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/06/16 15:21	12/14/16 2:31	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.6	U	ug/m3	2.6	12/06/16 15:21	12/14/16 2:31	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	12/06/16 15:21	12/14/16 2:31	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM01AA31116D **Lab ID:** E165002-09

Station ID: GM01 **Matrix:** Ambient Air

Date Collected: 12/1/16 7:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.5	U	ug/m3	4.5	12/06/16 15:21	12/14/16 3:23	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	12/06/16 15:21	12/14/16 3:23	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 3:23	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.56	J, Q-2	ug/m3	2.5	12/06/16 15:21	12/14/16 3:23	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	U	ug/m3	2.0	12/06/16 15:21	12/14/16 3:23	EPA TO-15
71-43-2	Benzene	0.46	J, Q-2	ug/m3	1.6	12/06/16 15:21	12/14/16 3:23	EPA TO-15
67-66-3	Chloroform	2.4	U	ug/m3	2.4	12/06/16 15:21	12/14/16 3:23	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/06/16 15:21	12/14/16 3:23	EPA TO-15
100-41-4	Ethyl Benzene	2.2	U	ug/m3	2.2	12/06/16 15:21	12/14/16 3:23	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/06/16 15:21	12/14/16 3:23	EPA TO-15
95-47-6	o-Xylene	0.27	J, Q-2	ug/m3	2.2	12/06/16 15:21	12/14/16 3:23	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.4	U	ug/m3	3.4	12/06/16 15:21	12/14/16 3:23	EPA TO-15
108-88-3	Toluene	0.72	J, Q-2	ug/m3	1.9	12/06/16 15:21	12/14/16 3:23	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/06/16 15:21	12/14/16 3:23	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	2.7	12/06/16 15:21	12/14/16 3:23	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/06/16 15:21	12/14/16 3:23	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM02AA1116 **Lab ID:** E165002-10

Station ID: GM02 **Matrix:** Ambient Air

Date Collected: 11/29/16 7:28

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.5	U	ug/m3	4.5	12/06/16 15:21	12/14/16 4:15	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	12/06/16 15:21	12/14/16 4:15	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 4:15	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.5	U	ug/m3	2.5	12/06/16 15:21	12/14/16 4:15	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	U	ug/m3	2.0	12/06/16 15:21	12/14/16 4:15	EPA TO-15
71-43-2	Benzene	0.35	J, Q-2	ug/m3	1.6	12/06/16 15:21	12/14/16 4:15	EPA TO-15
67-66-3	Chloroform	2.4	U	ug/m3	2.4	12/06/16 15:21	12/14/16 4:15	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	0.21	J, Q-2	ug/m3	2.0	12/06/16 15:21	12/14/16 4:15	EPA TO-15
100-41-4	Ethyl Benzene	2.2	U	ug/m3	2.2	12/06/16 15:21	12/14/16 4:15	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/06/16 15:21	12/14/16 4:15	EPA TO-15
95-47-6	o-Xylene	2.2	U	ug/m3	2.2	12/06/16 15:21	12/14/16 4:15	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.4	U	ug/m3	3.4	12/06/16 15:21	12/14/16 4:15	EPA TO-15
108-88-3	Toluene	0.42	J, Q-2	ug/m3	1.9	12/06/16 15:21	12/14/16 4:15	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/06/16 15:21	12/14/16 4:15	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	1.6	J, Q-2	ug/m3	2.7	12/06/16 15:21	12/14/16 4:15	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/06/16 15:21	12/14/16 4:15	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM02AA21116 **Lab ID:** E165002-11

Station ID: GM02 **Matrix:** Ambient Air

Date Collected: 11/30/16 7:28

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.55	J, Q-2	ug/m3	4.3	12/06/16 15:21	12/14/16 5:07	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.7	U	ug/m3	2.7	12/06/16 15:21	12/14/16 5:07	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.8	U	ug/m3	1.8	12/06/16 15:21	12/14/16 5:07	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.43	J, Q-2	ug/m3	2.5	12/06/16 15:21	12/14/16 5:07	EPA TO-15
107-06-2	1,2-Dichloroethane	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 5:07	EPA TO-15
71-43-2	Benzene	0.44	J, Q-2	ug/m3	1.6	12/06/16 15:21	12/14/16 5:07	EPA TO-15
67-66-3	Chloroform	2.4	U	ug/m3	2.4	12/06/16 15:21	12/14/16 5:07	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 5:07	EPA TO-15
100-41-4	Ethyl Benzene	2.1	U	ug/m3	2.1	12/06/16 15:21	12/14/16 5:07	EPA TO-15
75-09-2	Methylene Chloride	1.6	U	ug/m3	1.6	12/06/16 15:21	12/14/16 5:07	EPA TO-15
95-47-6	o-Xylene	0.27	J, Q-2	ug/m3	2.2	12/06/16 15:21	12/14/16 5:07	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.3	U	ug/m3	3.3	12/06/16 15:21	12/14/16 5:07	EPA TO-15
108-88-3	Toluene	0.72	J, Q-2	ug/m3	1.9	12/06/16 15:21	12/14/16 5:07	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/06/16 15:21	12/14/16 5:07	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	0.35	J, Q-2	ug/m3	2.6	12/06/16 15:21	12/14/16 5:07	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	12/06/16 15:21	12/14/16 5:07	EPA TO-15

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Project: 17-0050, Grenada Manufacturing

Sample ID: GM02AA31116 **Lab ID:** E165002-12
Station ID: GM02 **Matrix:** Ambient Air

Date Collected: 12/1/16 7:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.57	J, Q-2	ug/m3	4.3	12/06/16 15:21	12/14/16 5:58	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.7	U	ug/m3	2.7	12/06/16 15:21	12/14/16 5:58	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.8	U	ug/m3	1.8	12/06/16 15:21	12/14/16 5:58	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.89	J, Q-2	ug/m3	2.5	12/06/16 15:21	12/14/16 5:58	EPA TO-15
107-06-2	1,2-Dichloroethane	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 5:58	EPA TO-15
71-43-2	Benzene	0.48	J, Q-2	ug/m3	1.6	12/06/16 15:21	12/14/16 5:58	EPA TO-15
67-66-3	Chloroform	2.4	U	ug/m3	2.4	12/06/16 15:21	12/14/16 5:58	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 5:58	EPA TO-15
100-41-4	Ethyl Benzene	2.1	U	ug/m3	2.1	12/06/16 15:21	12/14/16 5:58	EPA TO-15
75-09-2	Methylene Chloride	1.6	U	ug/m3	1.6	12/06/16 15:21	12/14/16 5:58	EPA TO-15
95-47-6	o-Xylene	0.33	J, Q-2	ug/m3	2.2	12/06/16 15:21	12/14/16 5:58	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.3	U	ug/m3	3.3	12/06/16 15:21	12/14/16 5:58	EPA TO-15
108-88-3	Toluene	0.82	J, Q-2	ug/m3	1.9	12/06/16 15:21	12/14/16 5:58	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/06/16 15:21	12/14/16 5:58	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	0.30	J, Q-2	ug/m3	2.6	12/06/16 15:21	12/14/16 5:58	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	12/06/16 15:21	12/14/16 5:58	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM107IA1116 **Lab ID:** E165002-13

Station ID: GM107 **Matrix:** Indoor Air

Date Collected: 11/29/16 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.70	J, Q-2	ug/m3	4.4	12/06/16 15:21	12/14/16 6:50	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	12/06/16 15:21	12/14/16 6:50	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 6:50	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.5	U	ug/m3	2.5	12/06/16 15:21	12/14/16 6:50	EPA TO-15
107-06-2	1,2-Dichloroethane	0.45	J, Q-2	ug/m3	2.0	12/06/16 15:21	12/14/16 6:50	EPA TO-15
71-43-2	Benzene	0.56	J, Q-2	ug/m3	1.6	12/06/16 15:21	12/14/16 6:50	EPA TO-15
67-66-3	Chloroform	0.61	J, Q-2	ug/m3	2.4	12/06/16 15:21	12/14/16 6:50	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/06/16 15:21	12/14/16 6:50	EPA TO-15
100-41-4	Ethyl Benzene	0.26	J, Q-2	ug/m3	2.2	12/06/16 15:21	12/14/16 6:50	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/06/16 15:21	12/14/16 6:50	EPA TO-15
95-47-6	o-Xylene	0.29	J, Q-2	ug/m3	2.2	12/06/16 15:21	12/14/16 6:50	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.4	U	ug/m3	3.4	12/06/16 15:21	12/14/16 6:50	EPA TO-15
108-88-3	Toluene	6.2		ug/m3	1.9	12/06/16 15:21	12/14/16 6:50	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/06/16 15:21	12/14/16 6:50	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	2.7	12/06/16 15:21	12/14/16 6:50	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/06/16 15:21	12/14/16 6:50	EPA TO-15

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Project: 17-0050, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM107IA1116D **Lab ID:** E165002-14

Station ID: GM107 **Matrix:** Indoor Air

Date Collected: 11/29/16 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.66	J, Q-2	ug/m3	4.6	12/06/16 15:21	12/14/16 7:42	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.9	U	ug/m3	2.9	12/06/16 15:21	12/14/16 7:42	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 7:42	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.6	U	ug/m3	2.6	12/06/16 15:21	12/14/16 7:42	EPA TO-15
107-06-2	1,2-Dichloroethane	0.46	J, Q-2	ug/m3	2.1	12/06/16 15:21	12/14/16 7:42	EPA TO-15
71-43-2	Benzene	0.57	J, Q-2	ug/m3	1.7	12/06/16 15:21	12/14/16 7:42	EPA TO-15
67-66-3	Chloroform	0.63	J, Q-2	ug/m3	2.5	12/06/16 15:21	12/14/16 7:42	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/06/16 15:21	12/14/16 7:42	EPA TO-15
100-41-4	Ethyl Benzene	0.27	J, Q-2	ug/m3	2.3	12/06/16 15:21	12/14/16 7:42	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/06/16 15:21	12/14/16 7:42	EPA TO-15
95-47-6	o-Xylene	0.30	J, Q-2	ug/m3	2.3	12/06/16 15:21	12/14/16 7:42	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	3.5	12/06/16 15:21	12/14/16 7:42	EPA TO-15
108-88-3	Toluene	6.3		ug/m3	2.0	12/06/16 15:21	12/14/16 7:42	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	2.2	12/06/16 15:21	12/14/16 7:42	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	2.8	12/06/16 15:21	12/14/16 7:42	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/06/16 15:21	12/14/16 7:42	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM107SS1116 **Lab ID:** E165002-15

Station ID: GM107 **Matrix:** Soil Gas

Date Collected: 11/29/16 11:18

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.9	U	ug/m3	3.9	12/06/16 15:21	12/14/16 8:34	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.4	U	ug/m3	2.4	12/06/16 15:21	12/14/16 8:34	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.6	U	ug/m3	1.6	12/06/16 15:21	12/14/16 8:34	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	2.2	12/06/16 15:21	12/14/16 8:34	EPA TO-15
107-06-2	1,2-Dichloroethane	1.7	U	ug/m3	1.7	12/06/16 15:21	12/14/16 8:34	EPA TO-15
71-43-2	Benzene	1.4	U	ug/m3	1.4	12/06/16 15:21	12/14/16 8:34	EPA TO-15
67-66-3	Chloroform	2.1	U	ug/m3	2.1	12/06/16 15:21	12/14/16 8:34	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	1.7	12/06/16 15:21	12/14/16 8:34	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 8:34	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	1.5	12/06/16 15:21	12/14/16 8:34	EPA TO-15
95-47-6	o-Xylene	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 8:34	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	2.9	U	ug/m3	2.9	12/06/16 15:21	12/14/16 8:34	EPA TO-15
108-88-3	Toluene	1.7	U	ug/m3	1.7	12/06/16 15:21	12/14/16 8:34	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/06/16 15:21	12/14/16 8:34	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.3	U	ug/m3	2.3	12/06/16 15:21	12/14/16 8:34	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	1.1	12/06/16 15:21	12/14/16 8:34	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM107SS1116S **Lab ID:** E165002-16

Station ID: GM107 **Matrix:** Soil Gas

Date Collected: 11/29/16 11:18

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.9	U	ug/m3	3.9	12/06/16 15:21	12/14/16 9:27	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.4	U	ug/m3	2.4	12/06/16 15:21	12/14/16 9:27	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.6	U	ug/m3	1.6	12/06/16 15:21	12/14/16 9:27	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	2.2	12/06/16 15:21	12/14/16 9:27	EPA TO-15
107-06-2	1,2-Dichloroethane	1.7	U	ug/m3	1.7	12/06/16 15:21	12/14/16 9:27	EPA TO-15
71-43-2	Benzene	1.4	U	ug/m3	1.4	12/06/16 15:21	12/14/16 9:27	EPA TO-15
67-66-3	Chloroform	2.1	U	ug/m3	2.1	12/06/16 15:21	12/14/16 9:27	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	1.7	12/06/16 15:21	12/14/16 9:27	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 9:27	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	1.5	12/06/16 15:21	12/14/16 9:27	EPA TO-15
95-47-6	o-Xylene	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 9:27	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	2.9	U	ug/m3	2.9	12/06/16 15:21	12/14/16 9:27	EPA TO-15
108-88-3	Toluene	1.7	U	ug/m3	1.7	12/06/16 15:21	12/14/16 9:27	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/06/16 15:21	12/14/16 9:27	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.3	U	ug/m3	2.3	12/06/16 15:21	12/14/16 9:27	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	1.1	12/06/16 15:21	12/14/16 9:27	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM108IA1116 **Lab ID:** E165002-17

Station ID: GM108 **Matrix:** Indoor Air

Date Collected: 11/30/16 11:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.5	U	ug/m3	4.5	12/06/16 15:21	12/14/16 10:19	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	12/06/16 15:21	12/14/16 10:19	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 10:19	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.26	J, D-2, Q-2	ug/m3	2.6	12/06/16 15:21	12/14/16 10:19	EPA TO-15
107-06-2	1,2-Dichloroethane	0.84	J, Q-2	ug/m3	2.0	12/06/16 15:21	12/14/16 10:19	EPA TO-15
71-43-2	Benzene	0.79	J, Q-2	ug/m3	1.6	12/06/16 15:21	12/14/16 10:19	EPA TO-15
67-66-3	Chloroform	0.26	J, Q-2	ug/m3	2.5	12/06/16 15:21	12/14/16 10:19	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/06/16 15:21	12/14/16 10:19	EPA TO-15
100-41-4	Ethyl Benzene	2.2	U	ug/m3	2.2	12/06/16 15:21	12/14/16 10:19	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/06/16 15:21	12/14/16 10:19	EPA TO-15
95-47-6	o-Xylene	0.23	J, Q-2	ug/m3	2.3	12/06/16 15:21	12/14/16 10:19	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	3.5	12/06/16 15:21	12/14/16 10:19	EPA TO-15
108-88-3	Toluene	6.1		ug/m3	1.9	12/06/16 15:21	12/14/16 10:19	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/06/16 15:21	12/14/16 10:19	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	0.29	J, Q-2	ug/m3	2.7	12/06/16 15:21	12/14/16 10:19	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/06/16 15:21	12/14/16 10:19	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM108SS1116 **Lab ID:** E165002-18

Station ID: GM108 **Matrix:** Soil Gas

Date Collected: 11/30/16 10:38

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.9	U	ug/m3	3.9	12/06/16 15:21	12/14/16 12:02	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	2.5	12/06/16 15:21	12/14/16 12:02	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	1.7	12/06/16 15:21	12/14/16 12:02	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	2.2	12/06/16 15:21	12/14/16 12:02	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	1.8	12/06/16 15:21	12/14/16 12:02	EPA TO-15
71-43-2	Benzene	1.4	U	ug/m3	1.4	12/06/16 15:21	12/14/16 12:02	EPA TO-15
67-66-3	Chloroform	2.1	U	ug/m3	2.1	12/06/16 15:21	12/14/16 12:02	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/06/16 15:21	12/14/16 12:02	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 12:02	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	1.5	12/06/16 15:21	12/14/16 12:02	EPA TO-15
95-47-6	o-Xylene	2.0	U	ug/m3	2.0	12/06/16 15:21	12/14/16 12:02	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.30	J, Q-2	ug/m3	3.0	12/06/16 15:21	12/14/16 12:02	EPA TO-15
108-88-3	Toluene	1.7	U	ug/m3	1.7	12/06/16 15:21	12/14/16 12:02	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/06/16 15:21	12/14/16 12:02	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.4	U	ug/m3	2.4	12/06/16 15:21	12/14/16 12:02	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	1.1	12/06/16 15:21	12/14/16 12:02	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM109IA1116 **Lab ID:** E165002-19

Station ID: GM109 **Matrix:** Indoor Air

Date Collected: 11/29/16 17:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	6.5		ug/m3	4.7	12/06/16 15:21	12/14/16 12:54	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.9	U	ug/m3	2.9	12/06/16 15:21	12/14/16 12:54	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	2.0	12/06/16 15:21	12/14/16 12:54	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	1.1	J, D-2, Q-2	ug/m3	2.6	12/06/16 15:21	12/14/16 12:54	EPA TO-15
107-06-2	1,2-Dichloroethane	0.50	J, Q-2	ug/m3	2.1	12/06/16 15:21	12/14/16 12:54	EPA TO-15
71-43-2	Benzene	8.3		ug/m3	1.7	12/06/16 15:21	12/14/16 12:54	EPA TO-15
67-66-3	Chloroform	4.3		ug/m3	2.5	12/06/16 15:21	12/14/16 12:54	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/06/16 15:21	12/14/16 12:54	EPA TO-15
100-41-4	Ethyl Benzene	2.3		ug/m3	2.3	12/06/16 15:21	12/14/16 12:54	EPA TO-15
75-09-2	Methylene Chloride	1.8	U	ug/m3	1.8	12/06/16 15:21	12/14/16 12:54	EPA TO-15
95-47-6	o-Xylene	1.5	J, Q-2	ug/m3	2.3	12/06/16 15:21	12/14/16 12:54	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.6	U	ug/m3	3.6	12/06/16 15:21	12/14/16 12:54	EPA TO-15
108-88-3	Toluene	24		ug/m3	2.0	12/06/16 15:21	12/14/16 12:54	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	2.2	12/06/16 15:21	12/14/16 12:54	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	2.8	12/06/16 15:21	12/14/16 12:54	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/06/16 15:21	12/14/16 12:54	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM109SS1116 **Lab ID:** E165002-20

Station ID: GM109 **Matrix:** Soil Gas

Date Collected: 11/29/16 16:44

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.0	U	ug/m3	4.0	12/06/16 15:21	12/14/16 13:44	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	2.5	12/06/16 15:21	12/14/16 13:44	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	1.7	12/06/16 15:21	12/14/16 13:44	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.3	U	ug/m3	2.3	12/06/16 15:21	12/14/16 13:44	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	1.8	12/06/16 15:21	12/14/16 13:44	EPA TO-15
71-43-2	Benzene	0.25	J, Q-2	ug/m3	1.5	12/06/16 15:21	12/14/16 13:44	EPA TO-15
67-66-3	Chloroform	1.5	J, Q-2	ug/m3	2.2	12/06/16 15:21	12/14/16 13:44	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/06/16 15:21	12/14/16 13:44	EPA TO-15
100-41-4	Ethyl Benzene	2.0	U	ug/m3	2.0	12/06/16 15:21	12/14/16 13:44	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	1.5	12/06/16 15:21	12/14/16 13:44	EPA TO-15
95-47-6	o-Xylene	2.0	U	ug/m3	2.0	12/06/16 15:21	12/14/16 13:44	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.1	U	ug/m3	3.1	12/06/16 15:21	12/14/16 13:44	EPA TO-15
108-88-3	Toluene	1.7	U	ug/m3	1.7	12/06/16 15:21	12/14/16 13:44	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 13:44	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.5	U	ug/m3	2.5	12/06/16 15:21	12/14/16 13:44	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	12/06/16 15:21	12/14/16 13:44	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM11AA1116 **Lab ID:** E165002-21

Station ID: GM11 **Matrix:** Ambient Air

Date Collected: 11/29/16 7:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.6	U	ug/m3	4.6	12/06/16 15:21	12/14/16 14:37	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.9	U	ug/m3	2.9	12/06/16 15:21	12/14/16 14:37	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 14:37	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.6	U	ug/m3	2.6	12/06/16 15:21	12/14/16 14:37	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	2.1	12/06/16 15:21	12/14/16 14:37	EPA TO-15
71-43-2	Benzene	0.30	J, Q-2	ug/m3	1.7	12/06/16 15:21	12/14/16 14:37	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	2.5	12/06/16 15:21	12/14/16 14:37	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/06/16 15:21	12/14/16 14:37	EPA TO-15
100-41-4	Ethyl Benzene	2.3	U	ug/m3	2.3	12/06/16 15:21	12/14/16 14:37	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/06/16 15:21	12/14/16 14:37	EPA TO-15
95-47-6	o-Xylene	2.3	U	ug/m3	2.3	12/06/16 15:21	12/14/16 14:37	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	3.5	12/06/16 15:21	12/14/16 14:37	EPA TO-15
108-88-3	Toluene	0.43	J, Q-2	ug/m3	2.0	12/06/16 15:21	12/14/16 14:37	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	2.2	12/06/16 15:21	12/14/16 14:37	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	2.8	12/06/16 15:21	12/14/16 14:37	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/06/16 15:21	12/14/16 14:37	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM11AA21116 **Lab ID:** E165002-22

Station ID: GM11 **Matrix:** Ambient Air

Date Collected: 11/30/16 7:51

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.59	J, Q-2	ug/m3	4.5	12/06/16 15:21	12/14/16 15:27	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	12/06/16 15:21	12/14/16 15:27	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	1.9	12/06/16 15:21	12/14/16 15:27	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.43	J, Q-2	ug/m3	2.6	12/06/16 15:21	12/14/16 15:27	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	U	ug/m3	2.0	12/06/16 15:21	12/14/16 15:27	EPA TO-15
71-43-2	Benzene	0.52	J, Q-2	ug/m3	1.6	12/06/16 15:21	12/14/16 15:27	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	2.5	12/06/16 15:21	12/14/16 15:27	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/06/16 15:21	12/14/16 15:27	EPA TO-15
100-41-4	Ethyl Benzene	2.2	U	ug/m3	2.2	12/06/16 15:21	12/14/16 15:27	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/06/16 15:21	12/14/16 15:27	EPA TO-15
95-47-6	o-Xylene	0.30	J, Q-2	ug/m3	2.3	12/06/16 15:21	12/14/16 15:27	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	3.5	12/06/16 15:21	12/14/16 15:27	EPA TO-15
108-88-3	Toluene	0.85	J, Q-2	ug/m3	1.9	12/06/16 15:21	12/14/16 15:27	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/06/16 15:21	12/14/16 15:27	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	2.8	12/06/16 15:21	12/14/16 15:27	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/06/16 15:21	12/14/16 15:27	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM11AA31116 **Lab ID:** E165002-23
Station ID: GM11 **Matrix:** Ambient Air

Date Collected: 12/1/16 7:54

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.67	J, Q-2	ug/m3	4.6	12/13/16 22:37	12/15/16 21:58	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	12/13/16 22:37	12/15/16 21:58	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	1.9	12/13/16 22:37	12/15/16 21:58	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.71	J, Q-2	ug/m3	2.6	12/13/16 22:37	12/15/16 21:58	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	U	ug/m3	2.0	12/13/16 22:37	12/15/16 21:58	EPA TO-15
71-43-2	Benzene	0.55	J, Q-2	ug/m3	1.6	12/13/16 22:37	12/15/16 21:58	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	2.5	12/13/16 22:37	12/15/16 21:58	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/13/16 22:37	12/15/16 21:58	EPA TO-15
100-41-4	Ethyl Benzene	0.24	J, Q-2	ug/m3	2.3	12/13/16 22:37	12/15/16 21:58	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/13/16 22:37	12/15/16 21:58	EPA TO-15
95-47-6	o-Xylene	0.37	J, Q-2	ug/m3	2.3	12/13/16 22:37	12/15/16 21:58	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	3.5	12/13/16 22:37	12/15/16 21:58	EPA TO-15
108-88-3	Toluene	1.0	J, Q-2	ug/m3	2.0	12/13/16 22:37	12/15/16 21:58	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/13/16 22:37	12/15/16 21:58	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	0.29	J, Q-2	ug/m3	2.8	12/13/16 22:37	12/15/16 21:58	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/13/16 22:37	12/15/16 21:58	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM110IA1116 **Lab ID:** E165002-24
Station ID: GM110 **Matrix:** Indoor Air

Date Collected: 11/29/16 14:27

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.4	J, Q-2	ug/m3	4.5	12/13/16 22:37	12/15/16 22:50	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	12/13/16 22:37	12/15/16 22:50	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	1.9	12/13/16 22:37	12/15/16 22:50	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.42	J, D-2, Q-2	ug/m3	2.5	12/13/16 22:37	12/15/16 22:50	EPA TO-15
107-06-2	1,2-Dichloroethane	0.93	J, Q-2	ug/m3	2.0	12/13/16 22:37	12/15/16 22:50	EPA TO-15
71-43-2	Benzene	1.2	J, Q-2	ug/m3	1.6	12/13/16 22:37	12/15/16 22:50	EPA TO-15
67-66-3	Chloroform	0.39	J, Q-2	ug/m3	2.4	12/13/16 22:37	12/15/16 22:50	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/13/16 22:37	12/15/16 22:50	EPA TO-15
100-41-4	Ethyl Benzene	2.0	J, Q-2	ug/m3	2.2	12/13/16 22:37	12/15/16 22:50	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/13/16 22:37	12/15/16 22:50	EPA TO-15
95-47-6	o-Xylene	1.9	J, Q-2	ug/m3	2.2	12/13/16 22:37	12/15/16 22:50	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.36	J, Q-2	ug/m3	3.4	12/13/16 22:37	12/15/16 22:50	EPA TO-15
108-88-3	Toluene	8.0		ug/m3	1.9	12/13/16 22:37	12/15/16 22:50	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/13/16 22:37	12/15/16 22:50	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	2.7	12/13/16 22:37	12/15/16 22:50	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/13/16 22:37	12/15/16 22:50	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM110SS1116 **Lab ID:** E165002-25

Station ID: GM110 **Matrix:** Soil Gas

Date Collected: 11/29/16 13:42

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.8	U	ug/m3	3.8	12/13/16 22:37	12/15/16 23:42	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.4	U	ug/m3	2.4	12/13/16 22:37	12/15/16 23:42	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.6	U	ug/m3	1.6	12/13/16 22:37	12/15/16 23:42	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	2.2	12/13/16 22:37	12/15/16 23:42	EPA TO-15
107-06-2	1,2-Dichloroethane	1.7	U	ug/m3	1.7	12/13/16 22:37	12/15/16 23:42	EPA TO-15
71-43-2	Benzene	1.4	U	ug/m3	1.4	12/13/16 22:37	12/15/16 23:42	EPA TO-15
67-66-3	Chloroform	0.28	J, Q-2	ug/m3	2.1	12/13/16 22:37	12/15/16 23:42	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	1.7	12/13/16 22:37	12/15/16 23:42	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	1.9	12/13/16 22:37	12/15/16 23:42	EPA TO-15
75-09-2	Methylene Chloride	1.4	U	ug/m3	1.4	12/13/16 22:37	12/15/16 23:42	EPA TO-15
95-47-6	o-Xylene	1.9	U	ug/m3	1.9	12/13/16 22:37	12/15/16 23:42	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.46	J, Q-2	ug/m3	2.9	12/13/16 22:37	12/15/16 23:42	EPA TO-15
108-88-3	Toluene	1.6	U	ug/m3	1.6	12/13/16 22:37	12/15/16 23:42	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/13/16 22:37	12/15/16 23:42	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.3	U	ug/m3	2.3	12/13/16 22:37	12/15/16 23:42	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	1.1	12/13/16 22:37	12/15/16 23:42	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM111IA1116 **Lab ID:** E165002-26

Station ID: GM111 **Matrix:** Indoor Air

Date Collected: 11/29/16 10:22

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.61	J, Q-2	ug/m3	4.9	12/13/16 22:37	12/16/16 0:34	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.1	U	ug/m3	3.1	12/13/16 22:37	12/16/16 0:34	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.1	U	ug/m3	2.1	12/13/16 22:37	12/16/16 0:34	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.31	J, D-2, Q-2	ug/m3	2.8	12/13/16 22:37	12/16/16 0:34	EPA TO-15
107-06-2	1,2-Dichloroethane	0.33	J, Q-2	ug/m3	2.2	12/13/16 22:37	12/16/16 0:34	EPA TO-15
71-43-2	Benzene	0.85	J, Q-2	ug/m3	1.8	12/13/16 22:37	12/16/16 0:34	EPA TO-15
67-66-3	Chloroform	1.5	J, Q-2	ug/m3	2.7	12/13/16 22:37	12/16/16 0:34	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.2	U	ug/m3	2.2	12/13/16 22:37	12/16/16 0:34	EPA TO-15
100-41-4	Ethyl Benzene	0.27	J, Q-2	ug/m3	2.4	12/13/16 22:37	12/16/16 0:34	EPA TO-15
75-09-2	Methylene Chloride	1.9	U	ug/m3	1.9	12/13/16 22:37	12/16/16 0:34	EPA TO-15
95-47-6	o-Xylene	0.30	J, Q-2	ug/m3	2.5	12/13/16 22:37	12/16/16 0:34	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.8	U	ug/m3	3.8	12/13/16 22:37	12/16/16 0:34	EPA TO-15
108-88-3	Toluene	3.7		ug/m3	2.1	12/13/16 22:37	12/16/16 0:34	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.3	U	ug/m3	2.3	12/13/16 22:37	12/16/16 0:34	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	3.0	U	ug/m3	3.0	12/13/16 22:37	12/16/16 0:34	EPA TO-15
75-01-4	Vinyl chloride	1.4	U	ug/m3	1.4	12/13/16 22:37	12/16/16 0:34	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM111SS1116 **Lab ID:** E165002-27

Station ID: GM111 **Matrix:** Soil Gas

Date Collected: 11/29/16 9:43

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.3	U	ug/m3	4.3	12/13/16 22:37	12/16/16 1:25	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.7	U	ug/m3	2.7	12/13/16 22:37	12/16/16 1:25	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 1:25	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.4	U	ug/m3	2.4	12/13/16 22:37	12/16/16 1:25	EPA TO-15
107-06-2	1,2-Dichloroethane	1.9	U	ug/m3	1.9	12/13/16 22:37	12/16/16 1:25	EPA TO-15
71-43-2	Benzene	1.6	U	ug/m3	1.6	12/13/16 22:37	12/16/16 1:25	EPA TO-15
67-66-3	Chloroform	2.3	U	ug/m3	2.3	12/13/16 22:37	12/16/16 1:25	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.9	U	ug/m3	1.9	12/13/16 22:37	12/16/16 1:25	EPA TO-15
100-41-4	Ethyl Benzene	2.1	U	ug/m3	2.1	12/13/16 22:37	12/16/16 1:25	EPA TO-15
75-09-2	Methylene Chloride	1.6	U	ug/m3	1.6	12/13/16 22:37	12/16/16 1:25	EPA TO-15
95-47-6	o-Xylene	2.2	U	ug/m3	2.2	12/13/16 22:37	12/16/16 1:25	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.3	U	ug/m3	3.3	12/13/16 22:37	12/16/16 1:25	EPA TO-15
108-88-3	Toluene	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 1:25	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/13/16 22:37	12/16/16 1:25	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.6	U	ug/m3	2.6	12/13/16 22:37	12/16/16 1:25	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	12/13/16 22:37	12/16/16 1:25	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM112IA1116 **Lab ID:** E165002-28

Station ID: GM112 **Matrix:** Indoor Air

Date Collected: 11/29/16 14:53

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.69	J, Q-2	ug/m3	4.8	12/13/16 22:37	12/17/16 13:15	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.0	U	ug/m3	3.0	12/13/16 22:37	12/17/16 13:15	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	2.0	12/13/16 22:37	12/17/16 13:15	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.7	U	ug/m3	2.7	12/13/16 22:37	12/17/16 13:15	EPA TO-15
107-06-2	1,2-Dichloroethane	0.37	J, Q-2	ug/m3	2.1	12/13/16 22:37	12/17/16 13:15	EPA TO-15
71-43-2	Benzene	1.0	J, Q-2	ug/m3	1.7	12/13/16 22:37	12/17/16 13:15	EPA TO-15
67-66-3	Chloroform	3.2		ug/m3	2.6	12/13/16 22:37	12/17/16 13:15	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/13/16 22:37	12/17/16 13:15	EPA TO-15
100-41-4	Ethyl Benzene	0.26	J, Q-2	ug/m3	2.4	12/13/16 22:37	12/17/16 13:15	EPA TO-15
75-09-2	Methylene Chloride	2.1		ug/m3	1.8	12/13/16 22:37	12/17/16 13:15	EPA TO-15
95-47-6	o-Xylene	0.32	J, Q-2	ug/m3	2.4	12/13/16 22:37	12/17/16 13:15	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.7	U	ug/m3	3.7	12/13/16 22:37	12/17/16 13:15	EPA TO-15
108-88-3	Toluene	4.7		ug/m3	2.1	12/13/16 22:37	12/17/16 13:15	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	2.2	12/13/16 22:37	12/17/16 13:15	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.9	U	ug/m3	2.9	12/13/16 22:37	12/17/16 13:15	EPA TO-15
75-01-4	Vinyl chloride	1.4	U	ug/m3	1.4	12/13/16 22:37	12/17/16 13:15	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM112SS1116 **Lab ID:** E165002-29
Station ID: GM112 **Matrix:** Soil Gas

Date Collected: 11/29/16 14:12

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.0	U	ug/m3	4.0	12/13/16 22:37	12/16/16 4:00	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	2.5	12/13/16 22:37	12/16/16 4:00	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	1.7	12/13/16 22:37	12/16/16 4:00	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	2.2	12/13/16 22:37	12/16/16 4:00	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 4:00	EPA TO-15
71-43-2	Benzene	1.4	U	ug/m3	1.4	12/13/16 22:37	12/16/16 4:00	EPA TO-15
67-66-3	Chloroform	2.2	U	ug/m3	2.2	12/13/16 22:37	12/16/16 4:00	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 4:00	EPA TO-15
100-41-4	Ethyl Benzene	2.0	U	ug/m3	2.0	12/13/16 22:37	12/16/16 4:00	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	1.5	12/13/16 22:37	12/16/16 4:00	EPA TO-15
95-47-6	o-Xylene	2.0	U	ug/m3	2.0	12/13/16 22:37	12/16/16 4:00	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.53	J, Q-2	ug/m3	3.0	12/13/16 22:37	12/16/16 4:00	EPA TO-15
108-88-3	Toluene	1.7	U	ug/m3	1.7	12/13/16 22:37	12/16/16 4:00	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.9	U	ug/m3	1.9	12/13/16 22:37	12/16/16 4:00	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.4	U	ug/m3	2.4	12/13/16 22:37	12/16/16 4:00	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	1.1	12/13/16 22:37	12/16/16 4:00	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM113IA1116 **Lab ID:** E165002-30

Station ID: GM113 **Matrix:** Indoor Air

Date Collected: 11/29/16 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.59	J, Q-2	ug/m3	4.4	12/13/16 22:37	12/16/16 4:52	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.7	U	ug/m3	2.7	12/13/16 22:37	12/16/16 4:52	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 4:52	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.31	J, D-2, Q-2	ug/m3	2.5	12/13/16 22:37	12/16/16 4:52	EPA TO-15
107-06-2	1,2-Dichloroethane	0.60	J, Q-2	ug/m3	2.0	12/13/16 22:37	12/16/16 4:52	EPA TO-15
71-43-2	Benzene	0.39	J, Q-2	ug/m3	1.6	12/13/16 22:37	12/16/16 4:52	EPA TO-15
67-66-3	Chloroform	0.52	J, Q-2	ug/m3	2.4	12/13/16 22:37	12/16/16 4:52	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/13/16 22:37	12/16/16 4:52	EPA TO-15
100-41-4	Ethyl Benzene	2.2	U	ug/m3	2.2	12/13/16 22:37	12/16/16 4:52	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/13/16 22:37	12/16/16 4:52	EPA TO-15
95-47-6	o-Xylene	0.22	J, Q-2	ug/m3	2.2	12/13/16 22:37	12/16/16 4:52	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.3	U	ug/m3	3.3	12/13/16 22:37	12/16/16 4:52	EPA TO-15
108-88-3	Toluene	2.7		ug/m3	1.9	12/13/16 22:37	12/16/16 4:52	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/13/16 22:37	12/16/16 4:52	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	2.7	12/13/16 22:37	12/16/16 4:52	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/13/16 22:37	12/16/16 4:52	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM113SS1116 **Lab ID:** E165002-31
Station ID: GM113 **Matrix:** Soil Gas

Date Collected: 11/29/16 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.8	U	ug/m3	3.8	12/13/16 22:37	12/16/16 5:44	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.4	U	ug/m3	2.4	12/13/16 22:37	12/16/16 5:44	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.6	U	ug/m3	1.6	12/13/16 22:37	12/16/16 5:44	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	2.2	12/13/16 22:37	12/16/16 5:44	EPA TO-15
107-06-2	1,2-Dichloroethane	1.7	U	ug/m3	1.7	12/13/16 22:37	12/16/16 5:44	EPA TO-15
71-43-2	Benzene	1.4	U	ug/m3	1.4	12/13/16 22:37	12/16/16 5:44	EPA TO-15
67-66-3	Chloroform	15		ug/m3	2.1	12/13/16 22:37	12/16/16 5:44	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	1.7	12/13/16 22:37	12/16/16 5:44	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	1.9	12/13/16 22:37	12/16/16 5:44	EPA TO-15
75-09-2	Methylene Chloride	1.4	U	ug/m3	1.4	12/13/16 22:37	12/16/16 5:44	EPA TO-15
95-47-6	o-Xylene	1.9	U	ug/m3	1.9	12/13/16 22:37	12/16/16 5:44	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.62	J, Q-2	ug/m3	2.9	12/13/16 22:37	12/16/16 5:44	EPA TO-15
108-88-3	Toluene	1.6	U	ug/m3	1.6	12/13/16 22:37	12/16/16 5:44	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 5:44	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	0.29	J, Q-2	ug/m3	2.3	12/13/16 22:37	12/16/16 5:44	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	1.1	12/13/16 22:37	12/16/16 5:44	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM114IA1116 **Lab ID:** E165002-32

Station ID: GM114 **Matrix:** Indoor Air

Date Collected: 11/29/16 11:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.8	U	ug/m3	4.8	12/13/16 22:37	12/16/16 6:35	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.0	U	ug/m3	3.0	12/13/16 22:37	12/16/16 6:35	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	2.0	12/13/16 22:37	12/16/16 6:35	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.7	U	ug/m3	2.7	12/13/16 22:37	12/16/16 6:35	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	2.1	12/13/16 22:37	12/16/16 6:35	EPA TO-15
71-43-2	Benzene	1.1	J, Q-2	ug/m3	1.7	12/13/16 22:37	12/16/16 6:35	EPA TO-15
67-66-3	Chloroform	2.6	U	ug/m3	2.6	12/13/16 22:37	12/16/16 6:35	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/13/16 22:37	12/16/16 6:35	EPA TO-15
100-41-4	Ethyl Benzene	2.4	U	ug/m3	2.4	12/13/16 22:37	12/16/16 6:35	EPA TO-15
75-09-2	Methylene Chloride	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 6:35	EPA TO-15
95-47-6	o-Xylene	2.4	U	ug/m3	2.4	12/13/16 22:37	12/16/16 6:35	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.7	U	ug/m3	3.7	12/13/16 22:37	12/16/16 6:35	EPA TO-15
108-88-3	Toluene	4.4		ug/m3	2.1	12/13/16 22:37	12/16/16 6:35	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	2.2	12/13/16 22:37	12/16/16 6:35	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.9	U	ug/m3	2.9	12/13/16 22:37	12/16/16 6:35	EPA TO-15
75-01-4	Vinyl chloride	1.4	U	ug/m3	1.4	12/13/16 22:37	12/16/16 6:35	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM114SS1116 **Lab ID:** E165002-33
Station ID: GM114 **Matrix:** Soil Gas

Date Collected: 11/29/16 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.9	U	ug/m3	3.9	12/13/16 22:37	12/16/16 7:27	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	2.5	12/13/16 22:37	12/16/16 7:27	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	1.7	12/13/16 22:37	12/16/16 7:27	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	2.2	12/13/16 22:37	12/16/16 7:27	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 7:27	EPA TO-15
71-43-2	Benzene	1.4	U	ug/m3	1.4	12/13/16 22:37	12/16/16 7:27	EPA TO-15
67-66-3	Chloroform	2.1	U	ug/m3	2.1	12/13/16 22:37	12/16/16 7:27	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 7:27	EPA TO-15
100-41-4	Ethyl Benzene	2.0	U	ug/m3	2.0	12/13/16 22:37	12/16/16 7:27	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	1.5	12/13/16 22:37	12/16/16 7:27	EPA TO-15
95-47-6	o-Xylene	2.0	U	ug/m3	2.0	12/13/16 22:37	12/16/16 7:27	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.0	U	ug/m3	3.0	12/13/16 22:37	12/16/16 7:27	EPA TO-15
108-88-3	Toluene	1.7	U	ug/m3	1.7	12/13/16 22:37	12/16/16 7:27	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 7:27	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.4	U	ug/m3	2.4	12/13/16 22:37	12/16/16 7:27	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	1.1	12/13/16 22:37	12/16/16 7:27	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM115IA1116 **Lab ID:** E165002-34
Station ID: GM115 **Matrix:** Indoor Air

Date Collected: 11/30/16 16:36

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.8	U	ug/m3	4.8	12/13/16 22:37	12/16/16 8:19	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.0	U	ug/m3	3.0	12/13/16 22:37	12/16/16 8:19	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	2.0	12/13/16 22:37	12/16/16 8:19	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.28	J, Q-2	ug/m3	2.7	12/13/16 22:37	12/16/16 8:19	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	2.1	12/13/16 22:37	12/16/16 8:19	EPA TO-15
71-43-2	Benzene	0.50	J, Q-2	ug/m3	1.7	12/13/16 22:37	12/16/16 8:19	EPA TO-15
67-66-3	Chloroform	2.6	U	ug/m3	2.6	12/13/16 22:37	12/16/16 8:19	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/13/16 22:37	12/16/16 8:19	EPA TO-15
100-41-4	Ethyl Benzene	2.4	U	ug/m3	2.4	12/13/16 22:37	12/16/16 8:19	EPA TO-15
75-09-2	Methylene Chloride	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 8:19	EPA TO-15
95-47-6	o-Xylene	2.4	U	ug/m3	2.4	12/13/16 22:37	12/16/16 8:19	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.7	U	ug/m3	3.7	12/13/16 22:37	12/16/16 8:19	EPA TO-15
108-88-3	Toluene	1.4	J, Q-2	ug/m3	2.1	12/13/16 22:37	12/16/16 8:19	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	2.2	12/13/16 22:37	12/16/16 8:19	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.9	U	ug/m3	2.9	12/13/16 22:37	12/16/16 8:19	EPA TO-15
75-01-4	Vinyl chloride	1.4	U	ug/m3	1.4	12/13/16 22:37	12/16/16 8:19	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM115SS1116 **Lab ID:** E165002-35

Station ID: GM115 **Matrix:** Soil Gas

Date Collected: 11/30/16 15:49

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.8	U	ug/m3	3.8	12/13/16 22:37	12/16/16 9:11	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.4	U	ug/m3	2.4	12/13/16 22:37	12/16/16 9:11	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.6	U	ug/m3	1.6	12/13/16 22:37	12/16/16 9:11	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	2.2	12/13/16 22:37	12/16/16 9:11	EPA TO-15
107-06-2	1,2-Dichloroethane	1.7	U	ug/m3	1.7	12/13/16 22:37	12/16/16 9:11	EPA TO-15
71-43-2	Benzene	0.41	J, Q-2	ug/m3	1.4	12/13/16 22:37	12/16/16 9:11	EPA TO-15
67-66-3	Chloroform	0.95	J, Q-2	ug/m3	2.1	12/13/16 22:37	12/16/16 9:11	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	1.7	12/13/16 22:37	12/16/16 9:11	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	1.9	12/13/16 22:37	12/16/16 9:11	EPA TO-15
75-09-2	Methylene Chloride	1.4	U	ug/m3	1.4	12/13/16 22:37	12/16/16 9:11	EPA TO-15
95-47-6	o-Xylene	1.9	U	ug/m3	1.9	12/13/16 22:37	12/16/16 9:11	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	2.9	U	ug/m3	2.9	12/13/16 22:37	12/16/16 9:11	EPA TO-15
108-88-3	Toluene	0.63	J, Q-2	ug/m3	1.6	12/13/16 22:37	12/16/16 9:11	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 9:11	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	0.27	J, Q-2	ug/m3	2.3	12/13/16 22:37	12/16/16 9:11	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	1.1	12/13/16 22:37	12/16/16 9:11	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM116IA1116 **Lab ID:** E165002-36

Station ID: GM116 **Matrix:** Indoor Air

Date Collected: 11/30/16 10:57

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.2	J, Q-2	ug/m3	4.3	12/13/16 22:37	12/16/16 10:03	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.7	U	ug/m3	2.7	12/13/16 22:37	12/16/16 10:03	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 10:03	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.76	J, D-2, Q-2	ug/m3	2.4	12/13/16 22:37	12/16/16 10:03	EPA TO-15
107-06-2	1,2-Dichloroethane	1.9	U	ug/m3	1.9	12/13/16 22:37	12/16/16 10:03	EPA TO-15
71-43-2	Benzene	1.3	J, Q-2	ug/m3	1.6	12/13/16 22:37	12/16/16 10:03	EPA TO-15
67-66-3	Chloroform	1.3	J, Q-2	ug/m3	2.3	12/13/16 22:37	12/16/16 10:03	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.9	U	ug/m3	1.9	12/13/16 22:37	12/16/16 10:03	EPA TO-15
100-41-4	Ethyl Benzene	0.40	J, Q-2	ug/m3	2.1	12/13/16 22:37	12/16/16 10:03	EPA TO-15
75-09-2	Methylene Chloride	1.6	U	ug/m3	1.6	12/13/16 22:37	12/16/16 10:03	EPA TO-15
95-47-6	o-Xylene	0.44	J, Q-2	ug/m3	2.2	12/13/16 22:37	12/16/16 10:03	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.3	U	ug/m3	3.3	12/13/16 22:37	12/16/16 10:03	EPA TO-15
108-88-3	Toluene	4.0		ug/m3	1.8	12/13/16 22:37	12/16/16 10:03	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/13/16 22:37	12/16/16 10:03	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.6	U	ug/m3	2.6	12/13/16 22:37	12/16/16 10:03	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	12/13/16 22:37	12/16/16 10:03	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM116SS1116 **Lab ID:** E165002-37
Station ID: GM116 **Matrix:** Soil Gas

Date Collected: 11/30/16 9:57

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.1	U	ug/m3	4.1	12/13/16 22:37	12/16/16 10:54	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.6	U	ug/m3	2.6	12/13/16 22:37	12/16/16 10:54	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	1.7	12/13/16 22:37	12/16/16 10:54	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.48	J, D-2, Q-2	ug/m3	2.3	12/13/16 22:37	12/16/16 10:54	EPA TO-15
107-06-2	1,2-Dichloroethane	1.9	U	ug/m3	1.9	12/13/16 22:37	12/16/16 10:54	EPA TO-15
71-43-2	Benzene	1.7		ug/m3	1.5	12/13/16 22:37	12/16/16 10:54	EPA TO-15
67-66-3	Chloroform	2.2	U	ug/m3	2.2	12/13/16 22:37	12/16/16 10:54	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 10:54	EPA TO-15
100-41-4	Ethyl Benzene	2.0	U	ug/m3	2.0	12/13/16 22:37	12/16/16 10:54	EPA TO-15
75-09-2	Methylene Chloride	1.6	U	ug/m3	1.6	12/13/16 22:37	12/16/16 10:54	EPA TO-15
95-47-6	o-Xylene	0.24	J, Q-2	ug/m3	2.1	12/13/16 22:37	12/16/16 10:54	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.81	J, Q-2	ug/m3	3.2	12/13/16 22:37	12/16/16 10:54	EPA TO-15
108-88-3	Toluene	0.78	J, Q-2	ug/m3	1.8	12/13/16 22:37	12/16/16 10:54	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.9	U	ug/m3	1.9	12/13/16 22:37	12/16/16 10:54	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.5	U	ug/m3	2.5	12/13/16 22:37	12/16/16 10:54	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	12/13/16 22:37	12/16/16 10:54	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM117IA1116 **Lab ID:** E165002-38
Station ID: GM117 **Matrix:** Indoor Air

Date Collected: 11/30/16 15:22

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.65	J, Q-2	ug/m3	4.3	12/13/16 22:37	12/16/16 11:46	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.7	U	ug/m3	2.7	12/13/16 22:37	12/16/16 11:46	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 11:46	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.56	J, Q-2	ug/m3	2.5	12/13/16 22:37	12/16/16 11:46	EPA TO-15
107-06-2	1,2-Dichloroethane	1.0	J, Q-2	ug/m3	1.9	12/13/16 22:37	12/16/16 11:46	EPA TO-15
71-43-2	Benzene	0.99	J, Q-2	ug/m3	1.6	12/13/16 22:37	12/16/16 11:46	EPA TO-15
67-66-3	Chloroform	0.58	J, Q-2	ug/m3	2.4	12/13/16 22:37	12/16/16 11:46	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.9	U	ug/m3	1.9	12/13/16 22:37	12/16/16 11:46	EPA TO-15
100-41-4	Ethyl Benzene	0.27	J, Q-2	ug/m3	2.1	12/13/16 22:37	12/16/16 11:46	EPA TO-15
75-09-2	Methylene Chloride	1.6	U	ug/m3	1.6	12/13/16 22:37	12/16/16 11:46	EPA TO-15
95-47-6	o-Xylene	0.35	J, Q-2	ug/m3	2.2	12/13/16 22:37	12/16/16 11:46	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.3	U	ug/m3	3.3	12/13/16 22:37	12/16/16 11:46	EPA TO-15
108-88-3	Toluene	2.0		ug/m3	1.9	12/13/16 22:37	12/16/16 11:46	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/13/16 22:37	12/16/16 11:46	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.6	U	ug/m3	2.6	12/13/16 22:37	12/16/16 11:46	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	12/13/16 22:37	12/16/16 11:46	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM117IA1116D **Lab ID:** E165002-39

Station ID: GM117 **Matrix:** Indoor Air

Date Collected: 11/30/16 15:22

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.74	J, Q-2	ug/m3	4.5	12/13/16 22:37	12/16/16 12:37	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	12/13/16 22:37	12/16/16 12:37	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	1.9	12/13/16 22:37	12/16/16 12:37	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.58	J, Q-2	ug/m3	2.6	12/13/16 22:37	12/16/16 12:37	EPA TO-15
107-06-2	1,2-Dichloroethane	0.99	J, Q-2	ug/m3	2.0	12/13/16 22:37	12/16/16 12:37	EPA TO-15
71-43-2	Benzene	1.0	J, Q-2	ug/m3	1.6	12/13/16 22:37	12/16/16 12:37	EPA TO-15
67-66-3	Chloroform	0.53	J, Q-2	ug/m3	2.5	12/13/16 22:37	12/16/16 12:37	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/13/16 22:37	12/16/16 12:37	EPA TO-15
100-41-4	Ethyl Benzene	0.30	J, Q-2	ug/m3	2.2	12/13/16 22:37	12/16/16 12:37	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/13/16 22:37	12/16/16 12:37	EPA TO-15
95-47-6	o-Xylene	0.39	J, Q-2	ug/m3	2.3	12/13/16 22:37	12/16/16 12:37	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	3.5	12/13/16 22:37	12/16/16 12:37	EPA TO-15
108-88-3	Toluene	2.1		ug/m3	1.9	12/13/16 22:37	12/16/16 12:37	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/13/16 22:37	12/16/16 12:37	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	2.7	12/13/16 22:37	12/16/16 12:37	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/13/16 22:37	12/16/16 12:37	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM117SS1116 **Lab ID:** E165002-40

Station ID: GM117 **Matrix:** Soil Gas

Date Collected: 11/30/16 14:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.9	U	ug/m3	3.9	12/13/16 22:37	12/16/16 13:30	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.4	U	ug/m3	2.4	12/13/16 22:37	12/16/16 13:30	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	1.7	12/13/16 22:37	12/16/16 13:30	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	2.2	12/13/16 22:37	12/16/16 13:30	EPA TO-15
107-06-2	1,2-Dichloroethane	0.25	J, Q-2	ug/m3	1.8	12/13/16 22:37	12/16/16 13:30	EPA TO-15
71-43-2	Benzene	0.34	J, Q-2	ug/m3	1.4	12/13/16 22:37	12/16/16 13:30	EPA TO-15
67-66-3	Chloroform	0.57	J, Q-2	ug/m3	2.1	12/13/16 22:37	12/16/16 13:30	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 13:30	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	1.9	12/13/16 22:37	12/16/16 13:30	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	1.5	12/13/16 22:37	12/16/16 13:30	EPA TO-15
95-47-6	o-Xylene	2.0	U	ug/m3	2.0	12/13/16 22:37	12/16/16 13:30	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.45	J, Q-2	ug/m3	3.0	12/13/16 22:37	12/16/16 13:30	EPA TO-15
108-88-3	Toluene	0.57	J, Q-2	ug/m3	1.7	12/13/16 22:37	12/16/16 13:30	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 13:30	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.4	U	ug/m3	2.4	12/13/16 22:37	12/16/16 13:30	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	1.1	12/13/16 22:37	12/16/16 13:30	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM117SS1116S **Lab ID:** E165002-41

Station ID: GM117 **Matrix:** Soil Gas

Date Collected: 11/30/16 14:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.9	U	ug/m3	3.9	12/13/16 22:37	12/16/16 14:21	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	2.5	12/13/16 22:37	12/16/16 14:21	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	1.7	12/13/16 22:37	12/16/16 14:21	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	2.2	12/13/16 22:37	12/16/16 14:21	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 14:21	EPA TO-15
71-43-2	Benzene	0.34	J, Q-2	ug/m3	1.4	12/13/16 22:37	12/16/16 14:21	EPA TO-15
67-66-3	Chloroform	0.57	J, Q-2	ug/m3	2.1	12/13/16 22:37	12/16/16 14:21	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 14:21	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	1.9	12/13/16 22:37	12/16/16 14:21	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	1.5	12/13/16 22:37	12/16/16 14:21	EPA TO-15
95-47-6	o-Xylene	2.0	U	ug/m3	2.0	12/13/16 22:37	12/16/16 14:21	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.46	J, Q-2	ug/m3	3.0	12/13/16 22:37	12/16/16 14:21	EPA TO-15
108-88-3	Toluene	0.56	J, Q-2	ug/m3	1.7	12/13/16 22:37	12/16/16 14:21	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/13/16 22:37	12/16/16 14:21	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.4	U	ug/m3	2.4	12/13/16 22:37	12/16/16 14:21	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	1.1	12/13/16 22:37	12/16/16 14:21	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM118IA1116 **Lab ID:** E165002-42

Station ID: GM118 **Matrix:** Indoor Air

Date Collected: 11/30/16 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	2.6	J, Q-2	ug/m3	4.6	12/14/16 14:41	12/17/16 0:13	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.9	U	ug/m3	2.9	12/14/16 14:41	12/17/16 0:13	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	2.0	12/14/16 14:41	12/17/16 0:13	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	1.2	J, D-2, Q-2	ug/m3	2.6	12/14/16 14:41	12/17/16 0:13	EPA TO-15
107-06-2	1,2-Dichloroethane	1.4	J, Q-2	ug/m3	2.1	12/14/16 14:41	12/17/16 0:13	EPA TO-15
71-43-2	Benzene	2.6		ug/m3	1.7	12/14/16 14:41	12/17/16 0:13	EPA TO-15
67-66-3	Chloroform	0.41	J, Q-2	ug/m3	2.5	12/14/16 14:41	12/17/16 0:13	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/14/16 14:41	12/17/16 0:13	EPA TO-15
100-41-4	Ethyl Benzene	0.83	J, Q-2	ug/m3	2.3	12/14/16 14:41	12/17/16 0:13	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/14/16 14:41	12/17/16 0:13	EPA TO-15
95-47-6	o-Xylene	0.88	J, Q-2	ug/m3	2.3	12/14/16 14:41	12/17/16 0:13	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	3.5	12/14/16 14:41	12/17/16 0:13	EPA TO-15
108-88-3	Toluene	6.1		ug/m3	2.0	12/14/16 14:41	12/17/16 0:13	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	2.2	12/14/16 14:41	12/17/16 0:13	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	2.8	12/14/16 14:41	12/17/16 0:13	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/14/16 14:41	12/17/16 0:13	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM118SS1116 **Lab ID:** E165002-43

Station ID: GM118 **Matrix:** Soil Gas

Date Collected: 11/30/16 13:52

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.0	U	ug/m3	4.0	12/14/16 14:41	12/17/16 1:05	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	2.5	12/14/16 14:41	12/17/16 1:05	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	1.7	12/14/16 14:41	12/17/16 1:05	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	2.2	12/14/16 14:41	12/17/16 1:05	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	1.8	12/14/16 14:41	12/17/16 1:05	EPA TO-15
71-43-2	Benzene	0.14	J, Q-2	ug/m3	1.4	12/14/16 14:41	12/17/16 1:05	EPA TO-15
67-66-3	Chloroform	2.2	U	ug/m3	2.2	12/14/16 14:41	12/17/16 1:05	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/14/16 14:41	12/17/16 1:05	EPA TO-15
100-41-4	Ethyl Benzene	2.0	U	ug/m3	2.0	12/14/16 14:41	12/17/16 1:05	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	1.5	12/14/16 14:41	12/17/16 1:05	EPA TO-15
95-47-6	o-Xylene	2.0	U	ug/m3	2.0	12/14/16 14:41	12/17/16 1:05	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.0	U	ug/m3	3.0	12/14/16 14:41	12/17/16 1:05	EPA TO-15
108-88-3	Toluene	1.7	U	ug/m3	1.7	12/14/16 14:41	12/17/16 1:05	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.9	U	ug/m3	1.9	12/14/16 14:41	12/17/16 1:05	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.4	U	ug/m3	2.4	12/14/16 14:41	12/17/16 1:05	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	1.1	12/14/16 14:41	12/17/16 1:05	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM119IA1116 **Lab ID:** E165002-44

Station ID: GM119 **Matrix:** Indoor Air

Date Collected: 11/30/16 10:14

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.3	J, Q-2	ug/m3	4.5	12/14/16 14:41	12/17/16 1:57	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	12/14/16 14:41	12/17/16 1:57	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	1.9	12/14/16 14:41	12/17/16 1:57	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.80	J, D-2, Q-2	ug/m3	2.5	12/14/16 14:41	12/17/16 1:57	EPA TO-15
107-06-2	1,2-Dichloroethane	2.5		ug/m3	2.0	12/14/16 14:41	12/17/16 1:57	EPA TO-15
71-43-2	Benzene	0.64	J, Q-2	ug/m3	1.6	12/14/16 14:41	12/17/16 1:57	EPA TO-15
67-66-3	Chloroform	2.6		ug/m3	2.4	12/14/16 14:41	12/17/16 1:57	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/14/16 14:41	12/17/16 1:57	EPA TO-15
100-41-4	Ethyl Benzene	1.2	J, Q-2	ug/m3	2.2	12/14/16 14:41	12/17/16 1:57	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/14/16 14:41	12/17/16 1:57	EPA TO-15
95-47-6	o-Xylene	0.54	J, Q-2	ug/m3	2.2	12/14/16 14:41	12/17/16 1:57	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.4	U	ug/m3	3.4	12/14/16 14:41	12/17/16 1:57	EPA TO-15
108-88-3	Toluene	5.3		ug/m3	1.9	12/14/16 14:41	12/17/16 1:57	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/14/16 14:41	12/17/16 1:57	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	2.7	12/14/16 14:41	12/17/16 1:57	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/14/16 14:41	12/17/16 1:57	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM119SS1116 **Lab ID:** E165002-45
Station ID: GM119 **Matrix:** Soil Gas

Date Collected: 11/30/16 9:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.3	U	ug/m3	4.3	12/14/16 14:41	12/17/16 2:50	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.7	U	ug/m3	2.7	12/14/16 14:41	12/17/16 2:50	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.8	U	ug/m3	1.8	12/14/16 14:41	12/17/16 2:50	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.4	U	ug/m3	2.4	12/14/16 14:41	12/17/16 2:50	EPA TO-15
107-06-2	1,2-Dichloroethane	1.9	U	ug/m3	1.9	12/14/16 14:41	12/17/16 2:50	EPA TO-15
71-43-2	Benzene	0.50	J, Q-2	ug/m3	1.5	12/14/16 14:41	12/17/16 2:50	EPA TO-15
67-66-3	Chloroform	0.31	J, Q-2	ug/m3	2.3	12/14/16 14:41	12/17/16 2:50	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.9	U	ug/m3	1.9	12/14/16 14:41	12/17/16 2:50	EPA TO-15
100-41-4	Ethyl Benzene	2.1	U	ug/m3	2.1	12/14/16 14:41	12/17/16 2:50	EPA TO-15
75-09-2	Methylene Chloride	1.6	U	ug/m3	1.6	12/14/16 14:41	12/17/16 2:50	EPA TO-15
95-47-6	o-Xylene	0.33	J, Q-2	ug/m3	2.1	12/14/16 14:41	12/17/16 2:50	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.3	U	ug/m3	3.3	12/14/16 14:41	12/17/16 2:50	EPA TO-15
108-88-3	Toluene	0.39	J, Q-2	ug/m3	1.8	12/14/16 14:41	12/17/16 2:50	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/14/16 14:41	12/17/16 2:50	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.6	U	ug/m3	2.6	12/14/16 14:41	12/17/16 2:50	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	12/14/16 14:41	12/17/16 2:50	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM12AA1116 **Lab ID:** E165002-46

Station ID: GM12 **Matrix:** Ambient Air

Date Collected: 11/29/16 8:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.6	U	ug/m3	4.6	12/14/16 14:41	12/17/16 4:34	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.9	U	ug/m3	2.9	12/14/16 14:41	12/17/16 4:34	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	1.9	12/14/16 14:41	12/17/16 4:34	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.6	U	ug/m3	2.6	12/14/16 14:41	12/17/16 4:34	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	2.1	12/14/16 14:41	12/17/16 4:34	EPA TO-15
71-43-2	Benzene	0.30	J, Q-2	ug/m3	1.7	12/14/16 14:41	12/17/16 4:34	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	2.5	12/14/16 14:41	12/17/16 4:34	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/14/16 14:41	12/17/16 4:34	EPA TO-15
100-41-4	Ethyl Benzene	2.3	U	ug/m3	2.3	12/14/16 14:41	12/17/16 4:34	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/14/16 14:41	12/17/16 4:34	EPA TO-15
95-47-6	o-Xylene	2.3	U	ug/m3	2.3	12/14/16 14:41	12/17/16 4:34	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	3.5	12/14/16 14:41	12/17/16 4:34	EPA TO-15
108-88-3	Toluene	0.41	J, Q-2	ug/m3	2.0	12/14/16 14:41	12/17/16 4:34	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	2.2	12/14/16 14:41	12/17/16 4:34	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	2.8	12/14/16 14:41	12/17/16 4:34	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/14/16 14:41	12/17/16 4:34	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM12AA21116 **Lab ID:** E165002-47
Station ID: GM12 **Matrix:** Ambient Air

Date Collected: 11/30/16 8:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.49	J, Q-2	ug/m3	4.5	12/14/16 14:41	12/17/16 5:26	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	12/14/16 14:41	12/17/16 5:26	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	1.9	12/14/16 14:41	12/17/16 5:26	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.38	J, Q-2	ug/m3	2.5	12/14/16 14:41	12/17/16 5:26	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	U	ug/m3	2.0	12/14/16 14:41	12/17/16 5:26	EPA TO-15
71-43-2	Benzene	0.50	J, Q-2	ug/m3	1.6	12/14/16 14:41	12/17/16 5:26	EPA TO-15
67-66-3	Chloroform	2.4	U	ug/m3	2.4	12/14/16 14:41	12/17/16 5:26	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/14/16 14:41	12/17/16 5:26	EPA TO-15
100-41-4	Ethyl Benzene	2.2	U	ug/m3	2.2	12/14/16 14:41	12/17/16 5:26	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/14/16 14:41	12/17/16 5:26	EPA TO-15
95-47-6	o-Xylene	0.25	J, Q-2	ug/m3	2.2	12/14/16 14:41	12/17/16 5:26	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.4	U	ug/m3	3.4	12/14/16 14:41	12/17/16 5:26	EPA TO-15
108-88-3	Toluene	0.77	J, Q-2	ug/m3	1.9	12/14/16 14:41	12/17/16 5:26	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/14/16 14:41	12/17/16 5:26	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	2.7	12/14/16 14:41	12/17/16 5:26	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/14/16 14:41	12/17/16 5:26	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM12AA31116 **Lab ID:** E165002-48
Station ID: GM12 **Matrix:** Ambient Air

Date Collected: 12/1/16 8:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.48	J, Q-2	ug/m3	4.5	12/14/16 14:41	12/17/16 6:18	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	12/14/16 14:41	12/17/16 6:18	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	1.9	12/14/16 14:41	12/17/16 6:18	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.57	J, Q-2	ug/m3	2.5	12/14/16 14:41	12/17/16 6:18	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	U	ug/m3	2.0	12/14/16 14:41	12/17/16 6:18	EPA TO-15
71-43-2	Benzene	0.49	J, Q-2	ug/m3	1.6	12/14/16 14:41	12/17/16 6:18	EPA TO-15
67-66-3	Chloroform	2.4	U	ug/m3	2.4	12/14/16 14:41	12/17/16 6:18	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/14/16 14:41	12/17/16 6:18	EPA TO-15
100-41-4	Ethyl Benzene	2.2	U	ug/m3	2.2	12/14/16 14:41	12/17/16 6:18	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/14/16 14:41	12/17/16 6:18	EPA TO-15
95-47-6	o-Xylene	0.26	J, Q-2	ug/m3	2.2	12/14/16 14:41	12/17/16 6:18	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.4	U	ug/m3	3.4	12/14/16 14:41	12/17/16 6:18	EPA TO-15
108-88-3	Toluene	0.72	J, Q-2	ug/m3	1.9	12/14/16 14:41	12/17/16 6:18	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/14/16 14:41	12/17/16 6:18	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	2.7	12/14/16 14:41	12/17/16 6:18	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/14/16 14:41	12/17/16 6:18	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM120IA1116 **Lab ID:** E165002-49
Station ID: GM120 **Matrix:** Indoor Air

Date Collected: 11/30/16 17:23

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	J, Q-2	ug/m3	4.4	12/14/16 14:41	12/17/16 7:10	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	12/14/16 14:41	12/17/16 7:10	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	1.9	12/14/16 14:41	12/17/16 7:10	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.70	J, D-2, Q-2	ug/m3	2.5	12/14/16 14:41	12/17/16 7:10	EPA TO-15
107-06-2	1,2-Dichloroethane	0.95	J, Q-2	ug/m3	2.0	12/14/16 14:41	12/17/16 7:10	EPA TO-15
71-43-2	Benzene	0.85	J, Q-2	ug/m3	1.6	12/14/16 14:41	12/17/16 7:10	EPA TO-15
67-66-3	Chloroform	0.33	J, Q-2	ug/m3	2.4	12/14/16 14:41	12/17/16 7:10	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/14/16 14:41	12/17/16 7:10	EPA TO-15
100-41-4	Ethyl Benzene	0.38	J, Q-2	ug/m3	2.2	12/14/16 14:41	12/17/16 7:10	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7	12/14/16 14:41	12/17/16 7:10	EPA TO-15
95-47-6	o-Xylene	0.48	J, Q-2	ug/m3	2.2	12/14/16 14:41	12/17/16 7:10	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.4	U	ug/m3	3.4	12/14/16 14:41	12/17/16 7:10	EPA TO-15
108-88-3	Toluene	4.0		ug/m3	1.9	12/14/16 14:41	12/17/16 7:10	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/14/16 14:41	12/17/16 7:10	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	2.7	12/14/16 14:41	12/17/16 7:10	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/14/16 14:41	12/17/16 7:10	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM120SS1116 **Lab ID:** E165002-50

Station ID: GM120 **Matrix:** Soil Gas

Date Collected: 11/30/16 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.0	U	ug/m3	4.0	12/14/16 14:41	12/17/16 8:03	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	2.5	12/14/16 14:41	12/17/16 8:03	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	1.7	12/14/16 14:41	12/17/16 8:03	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	2.2	12/14/16 14:41	12/17/16 8:03	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	1.8	12/14/16 14:41	12/17/16 8:03	EPA TO-15
71-43-2	Benzene	1.4	U	ug/m3	1.4	12/14/16 14:41	12/17/16 8:03	EPA TO-15
67-66-3	Chloroform	14		ug/m3	2.1	12/14/16 14:41	12/17/16 8:03	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/14/16 14:41	12/17/16 8:03	EPA TO-15
100-41-4	Ethyl Benzene	2.0	U	ug/m3	2.0	12/14/16 14:41	12/17/16 8:03	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	1.5	12/14/16 14:41	12/17/16 8:03	EPA TO-15
95-47-6	o-Xylene	2.0	U	ug/m3	2.0	12/14/16 14:41	12/17/16 8:03	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.0	U	ug/m3	3.0	12/14/16 14:41	12/17/16 8:03	EPA TO-15
108-88-3	Toluene	0.22	J, Q-2	ug/m3	1.7	12/14/16 14:41	12/17/16 8:03	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.9	U	ug/m3	1.9	12/14/16 14:41	12/17/16 8:03	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.4	U	ug/m3	2.4	12/14/16 14:41	12/17/16 8:03	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	1.1	12/14/16 14:41	12/17/16 8:03	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM121IA1116 **Lab ID:** E165002-51
Station ID: GM121 **Matrix:** Indoor Air

Date Collected: 11/29/16 16:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.88	J, Q-2	ug/m3	4.8	12/14/16 14:41	12/17/16 8:55	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.0	U	ug/m3	3.0	12/14/16 14:41	12/17/16 8:55	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.22	J, Q-2	ug/m3	2.0	12/14/16 14:41	12/17/16 8:55	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.73	J, D-2, Q-2	ug/m3	2.7	12/14/16 14:41	12/17/16 8:55	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	2.1	12/14/16 14:41	12/17/16 8:55	EPA TO-15
71-43-2	Benzene	0.60	J, Q-2	ug/m3	1.7	12/14/16 14:41	12/17/16 8:55	EPA TO-15
67-66-3	Chloroform	0.33	J, Q-2	ug/m3	2.6	12/14/16 14:41	12/17/16 8:55	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/14/16 14:41	12/17/16 8:55	EPA TO-15
100-41-4	Ethyl Benzene	0.32	J, Q-2	ug/m3	2.4	12/14/16 14:41	12/17/16 8:55	EPA TO-15
75-09-2	Methylene Chloride	1.8	U	ug/m3	1.8	12/14/16 14:41	12/17/16 8:55	EPA TO-15
95-47-6	o-Xylene	0.44	J, Q-2	ug/m3	2.4	12/14/16 14:41	12/17/16 8:55	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.6	U	ug/m3	3.6	12/14/16 14:41	12/17/16 8:55	EPA TO-15
108-88-3	Toluene	5.8		ug/m3	2.0	12/14/16 14:41	12/17/16 8:55	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	2.2	12/14/16 14:41	12/17/16 8:55	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.9	U	ug/m3	2.9	12/14/16 14:41	12/17/16 8:55	EPA TO-15
75-01-4	Vinyl chloride	1.4	U	ug/m3	1.4	12/14/16 14:41	12/17/16 8:55	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM121SS1116 **Lab ID:** E165002-52
Station ID: GM121 **Matrix:** Soil Gas

Date Collected: 11/29/16 16:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.9	U	ug/m3	3.9	12/14/16 14:41	12/17/16 9:47	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.4	U	ug/m3	2.4	12/14/16 14:41	12/17/16 9:47	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.6	U	ug/m3	1.6	12/14/16 14:41	12/17/16 9:47	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	2.2	12/14/16 14:41	12/17/16 9:47	EPA TO-15
107-06-2	1,2-Dichloroethane	1.7	U	ug/m3	1.7	12/14/16 14:41	12/17/16 9:47	EPA TO-15
71-43-2	Benzene	1.4	U	ug/m3	1.4	12/14/16 14:41	12/17/16 9:47	EPA TO-15
67-66-3	Chloroform	1.5	J, Q-2	ug/m3	2.1	12/14/16 14:41	12/17/16 9:47	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	1.7	12/14/16 14:41	12/17/16 9:47	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	1.9	12/14/16 14:41	12/17/16 9:47	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	1.5	12/14/16 14:41	12/17/16 9:47	EPA TO-15
95-47-6	o-Xylene	1.9	U	ug/m3	1.9	12/14/16 14:41	12/17/16 9:47	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	2.9	U	ug/m3	2.9	12/14/16 14:41	12/17/16 9:47	EPA TO-15
108-88-3	Toluene	1.7	U	ug/m3	1.7	12/14/16 14:41	12/17/16 9:47	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/14/16 14:41	12/17/16 9:47	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.3	U	ug/m3	2.3	12/14/16 14:41	12/17/16 9:47	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	1.1	12/14/16 14:41	12/17/16 9:47	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM122IA1116 **Lab ID:** E165002-53
Station ID: GM122 **Matrix:** Indoor Air

Date Collected: 11/30/16 12:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.96	J, Q-2	ug/m3	5.1	12/14/16 14:41	12/17/16 10:39	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.2	U	ug/m3	3.2	12/14/16 14:41	12/17/16 10:39	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.1	U	ug/m3	2.1	12/14/16 14:41	12/17/16 10:39	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.74	J, D-2, Q-2	ug/m3	2.9	12/14/16 14:41	12/17/16 10:39	EPA TO-15
107-06-2	1,2-Dichloroethane	0.40	J, Q-2	ug/m3	2.3	12/14/16 14:41	12/17/16 10:39	EPA TO-15
71-43-2	Benzene	0.72	J, Q-2	ug/m3	1.8	12/14/16 14:41	12/17/16 10:39	EPA TO-15
67-66-3	Chloroform	0.34	J, Q-2	ug/m3	2.7	12/14/16 14:41	12/17/16 10:39	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.3	U	ug/m3	2.3	12/14/16 14:41	12/17/16 10:39	EPA TO-15
100-41-4	Ethyl Benzene	0.39	J, Q-2	ug/m3	2.5	12/14/16 14:41	12/17/16 10:39	EPA TO-15
75-09-2	Methylene Chloride	1.9	U	ug/m3	1.9	12/14/16 14:41	12/17/16 10:39	EPA TO-15
95-47-6	o-Xylene	0.44	J, Q-2	ug/m3	2.5	12/14/16 14:41	12/17/16 10:39	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.9	U	ug/m3	3.9	12/14/16 14:41	12/17/16 10:39	EPA TO-15
108-88-3	Toluene	2.2		ug/m3	2.2	12/14/16 14:41	12/17/16 10:39	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.4	U	ug/m3	2.4	12/14/16 14:41	12/17/16 10:39	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	3.1	U	ug/m3	3.1	12/14/16 14:41	12/17/16 10:39	EPA TO-15
75-01-4	Vinyl chloride	1.4	U	ug/m3	1.4	12/14/16 14:41	12/17/16 10:39	EPA TO-15

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Project: 17-0050, Grenada Manufacturing

Sample ID: GM122SS1116 **Lab ID:** E165002-54

Station ID: GM122 **Matrix:** Soil Gas

Date Collected: 11/30/16 11:41

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.1	U	ug/m3	4.1	12/16/16 16:23	12/20/16 15:46	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.6	U	ug/m3	2.6	12/16/16 16:23	12/20/16 15:46	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	1.7	12/16/16 16:23	12/20/16 15:46	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.3	U	ug/m3	2.3	12/16/16 16:23	12/20/16 15:46	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	1.8	12/16/16 16:23	12/20/16 15:46	EPA TO-15
71-43-2	Benzene	1.5	U	ug/m3	1.5	12/16/16 16:23	12/20/16 15:46	EPA TO-15
67-66-3	Chloroform	2.2	U	ug/m3	2.2	12/16/16 16:23	12/20/16 15:46	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/16/16 16:23	12/20/16 15:46	EPA TO-15
100-41-4	Ethyl Benzene	2.0	U	ug/m3	2.0	12/16/16 16:23	12/20/16 15:46	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	1.5	12/16/16 16:23	12/20/16 15:46	EPA TO-15
95-47-6	o-Xylene	2.0	U	ug/m3	2.0	12/16/16 16:23	12/20/16 15:46	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.69	J, Q-2	ug/m3	3.1	12/16/16 16:23	12/20/16 15:46	EPA TO-15
108-88-3	Toluene	1.8	U	ug/m3	1.8	12/16/16 16:23	12/20/16 15:46	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.9	U	ug/m3	1.9	12/16/16 16:23	12/20/16 15:46	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.5	U	ug/m3	2.5	12/16/16 16:23	12/20/16 15:46	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	12/16/16 16:23	12/20/16 15:46	EPA TO-15

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Project: 17-0050, Grenada Manufacturing

Sample ID: GM123IA1116 **Lab ID:** E165002-55
Station ID: GM123 **Matrix:** Indoor Air

Date Collected: 12/1/16 9:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.6	J, Q-2	ug/m3	4.8	12/16/16 16:23	12/20/16 16:38	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.0	U	ug/m3	3.0	12/16/16 16:23	12/20/16 16:38	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	2.0	12/16/16 16:23	12/20/16 16:38	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	1.1	J, Q-2	ug/m3	2.7	12/16/16 16:23	12/20/16 16:38	EPA TO-15
107-06-2	1,2-Dichloroethane	1.1	J, Q-2	ug/m3	2.1	12/16/16 16:23	12/20/16 16:38	EPA TO-15
71-43-2	Benzene	36		ug/m3	1.7	12/16/16 16:23	12/20/16 16:38	EPA TO-15
67-66-3	Chloroform	3.5		ug/m3	2.6	12/16/16 16:23	12/20/16 16:38	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/16/16 16:23	12/20/16 16:38	EPA TO-15
100-41-4	Ethyl Benzene	1.8	J, Q-2	ug/m3	2.4	12/16/16 16:23	12/20/16 16:38	EPA TO-15
75-09-2	Methylene Chloride	1.8	U	ug/m3	1.8	12/16/16 16:23	12/20/16 16:38	EPA TO-15
95-47-6	o-Xylene	1.2	J, Q-2	ug/m3	2.4	12/16/16 16:23	12/20/16 16:38	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.6	U	ug/m3	3.6	12/16/16 16:23	12/20/16 16:38	EPA TO-15
108-88-3	Toluene	8.2		ug/m3	2.0	12/16/16 16:23	12/20/16 16:38	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	2.2	12/16/16 16:23	12/20/16 16:38	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.9	U	ug/m3	2.9	12/16/16 16:23	12/20/16 16:38	EPA TO-15
75-01-4	Vinyl chloride	1.4	U	ug/m3	1.4	12/16/16 16:23	12/20/16 16:38	EPA TO-15

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Project: 17-0050, Grenada Manufacturing

Sample ID: GM123SS1116 **Lab ID:** E165002-56
Station ID: GM123 **Matrix:** Soil Gas

Date Collected: 12/1/16 8:38

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.9	U	ug/m3	3.9	12/16/16 16:23	12/20/16 17:30	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.4	U	ug/m3	2.4	12/16/16 16:23	12/20/16 17:30	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.6	U	ug/m3	1.6	12/16/16 16:23	12/20/16 17:30	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	2.2	12/16/16 16:23	12/20/16 17:30	EPA TO-15
107-06-2	1,2-Dichloroethane	1.7	U	ug/m3	1.7	12/16/16 16:23	12/20/16 17:30	EPA TO-15
71-43-2	Benzene	1.4	U	ug/m3	1.4	12/16/16 16:23	12/20/16 17:30	EPA TO-15
67-66-3	Chloroform	0.65	J, Q-2	ug/m3	2.1	12/16/16 16:23	12/20/16 17:30	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	1.7	12/16/16 16:23	12/20/16 17:30	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	1.9	12/16/16 16:23	12/20/16 17:30	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	1.5	12/16/16 16:23	12/20/16 17:30	EPA TO-15
95-47-6	o-Xylene	1.9	U	ug/m3	1.9	12/16/16 16:23	12/20/16 17:30	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	J, Q-2	ug/m3	3.0	12/16/16 16:23	12/20/16 17:30	EPA TO-15
108-88-3	Toluene	1.7	U	ug/m3	1.7	12/16/16 16:23	12/20/16 17:30	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/16/16 16:23	12/20/16 17:30	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.4	U	ug/m3	2.4	12/16/16 16:23	12/20/16 17:30	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	1.1	12/16/16 16:23	12/20/16 17:30	EPA TO-15

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Project: 17-0050, Grenada Manufacturing

Sample ID: GM13AA1116 **Lab ID:** E165002-57
Station ID: GM13 **Matrix:** Ambient Air

Date Collected: 11/29/16 8:08

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.7	U	ug/m3	4.7	12/16/16 16:23	12/20/16 18:22	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.9	U	ug/m3	2.9	12/16/16 16:23	12/20/16 18:22	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	2.0	12/16/16 16:23	12/20/16 18:22	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.6	U	ug/m3	2.6	12/16/16 16:23	12/20/16 18:22	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	2.1	12/16/16 16:23	12/20/16 18:22	EPA TO-15
71-43-2	Benzene	0.31	J, Q-2	ug/m3	1.7	12/16/16 16:23	12/20/16 18:22	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	2.5	12/16/16 16:23	12/20/16 18:22	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	2.1	12/16/16 16:23	12/20/16 18:22	EPA TO-15
100-41-4	Ethyl Benzene	2.3	U	ug/m3	2.3	12/16/16 16:23	12/20/16 18:22	EPA TO-15
75-09-2	Methylene Chloride	1.8	U	ug/m3	1.8	12/16/16 16:23	12/20/16 18:22	EPA TO-15
95-47-6	o-Xylene	2.3	U	ug/m3	2.3	12/16/16 16:23	12/20/16 18:22	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.6	U	ug/m3	3.6	12/16/16 16:23	12/20/16 18:22	EPA TO-15
108-88-3	Toluene	0.34	J, Q-2	ug/m3	2.0	12/16/16 16:23	12/20/16 18:22	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	2.2	12/16/16 16:23	12/20/16 18:22	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	2.8	12/16/16 16:23	12/20/16 18:22	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	1.3	12/16/16 16:23	12/20/16 18:22	EPA TO-15

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Project: 17-0050, Grenada Manufacturing

Sample ID: GM13AA21116 **Lab ID:** E165002-58
Station ID: GM13 **Matrix:** Ambient Air

Date Collected: 11/30/16 8:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.1	U	ug/m3	4.1	12/16/16 16:23	12/20/16 20:06	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	2.5	12/16/16 16:23	12/20/16 20:06	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	1.7	12/16/16 16:23	12/20/16 20:06	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.24	J, Q-2	ug/m3	2.3	12/16/16 16:23	12/20/16 20:06	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	1.8	12/16/16 16:23	12/20/16 20:06	EPA TO-15
71-43-2	Benzene	0.44	J, Q-2	ug/m3	1.5	12/16/16 16:23	12/20/16 20:06	EPA TO-15
67-66-3	Chloroform	2.2	U	ug/m3	2.2	12/16/16 16:23	12/20/16 20:06	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/16/16 16:23	12/20/16 20:06	EPA TO-15
100-41-4	Ethyl Benzene	2.0	U	ug/m3	2.0	12/16/16 16:23	12/20/16 20:06	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	1.5	12/16/16 16:23	12/20/16 20:06	EPA TO-15
95-47-6	o-Xylene	2.0	U	ug/m3	2.0	12/16/16 16:23	12/20/16 20:06	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.1	U	ug/m3	3.1	12/16/16 16:23	12/20/16 20:06	EPA TO-15
108-88-3	Toluene	0.51	J, Q-2	ug/m3	1.7	12/16/16 16:23	12/20/16 20:06	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.9	U	ug/m3	1.9	12/16/16 16:23	12/20/16 20:06	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.5	U	ug/m3	2.5	12/16/16 16:23	12/20/16 20:06	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	12/16/16 16:23	12/20/16 20:06	EPA TO-15

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Project: 17-0050, Grenada Manufacturing

Sample ID: GM13AA31116 **Lab ID:** E165002-59
Station ID: GM13 **Matrix:** Ambient Air

Date Collected: 12/1/16 8:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.0	U	ug/m3	4.0	12/16/16 16:23	12/20/16 20:58	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	2.5	12/16/16 16:23	12/20/16 20:58	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	1.7	12/16/16 16:23	12/20/16 20:58	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.42	J, Q-2	ug/m3	2.3	12/16/16 16:23	12/20/16 20:58	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	1.8	12/16/16 16:23	12/20/16 20:58	EPA TO-15
71-43-2	Benzene	0.41	J, Q-2	ug/m3	1.5	12/16/16 16:23	12/20/16 20:58	EPA TO-15
67-66-3	Chloroform	2.2	U	ug/m3	2.2	12/16/16 16:23	12/20/16 20:58	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	1.8	12/16/16 16:23	12/20/16 20:58	EPA TO-15
100-41-4	Ethyl Benzene	2.0	U	ug/m3	2.0	12/16/16 16:23	12/20/16 20:58	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	1.5	12/16/16 16:23	12/20/16 20:58	EPA TO-15
95-47-6	o-Xylene	2.0	U	ug/m3	2.0	12/16/16 16:23	12/20/16 20:58	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.1	U	ug/m3	3.1	12/16/16 16:23	12/20/16 20:58	EPA TO-15
108-88-3	Toluene	0.54	J, Q-2	ug/m3	1.7	12/16/16 16:23	12/20/16 20:58	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.9	U	ug/m3	1.9	12/16/16 16:23	12/20/16 20:58	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.5	U	ug/m3	2.5	12/16/16 16:23	12/20/16 20:58	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	12/16/16 16:23	12/20/16 20:58	EPA TO-15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 16-0152
Project: 17-0050, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM18AA1116 **Lab ID:** E165002-60

Station ID: GM18 **Matrix:** Ambient Air

Date Collected: 11/29/16 7:21

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.70	J, Q-2	ug/m3	5.6	12/16/16 16:23	12/20/16 23:35	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.5	U	ug/m3	3.5	12/16/16 16:23	12/20/16 23:35	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.4	U	ug/m3	2.4	12/16/16 16:23	12/20/16 23:35	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.35	J, Q-2	ug/m3	3.2	12/16/16 16:23	12/20/16 23:35	EPA TO-15
107-06-2	1,2-Dichloroethane	2.5	U	ug/m3	2.5	12/16/16 16:23	12/20/16 23:35	EPA TO-15
71-43-2	Benzene	0.68	J, Q-2	ug/m3	2.0	12/16/16 16:23	12/20/16 23:35	EPA TO-15
67-66-3	Chloroform	3.2		ug/m3	3.1	12/16/16 16:23	12/20/16 23:35	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	0.34	J, Q-2	ug/m3	2.5	12/16/16 16:23	12/20/16 23:35	EPA TO-15
100-41-4	Ethyl Benzene	2.8	U	ug/m3	2.8	12/16/16 16:23	12/20/16 23:35	EPA TO-15
75-09-2	Methylene Chloride	3.5		ug/m3	2.1	12/16/16 16:23	12/20/16 23:35	EPA TO-15
95-47-6	o-Xylene	2.8	U	ug/m3	2.8	12/16/16 16:23	12/20/16 23:35	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	4.3	U	ug/m3	4.3	12/16/16 16:23	12/20/16 23:35	EPA TO-15
108-88-3	Toluene	0.95	J, Q-2	ug/m3	2.4	12/16/16 16:23	12/20/16 23:35	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.6	U	ug/m3	2.6	12/16/16 16:23	12/20/16 23:35	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	J, Q-2	ug/m3	3.4	12/16/16 16:23	12/20/16 23:35	EPA TO-15
75-01-4	Vinyl chloride	0.82	J, Q-2	ug/m3	1.6	12/16/16 16:23	12/20/16 23:35	EPA TO-15

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Project: 17-0050, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM18AA31116 **Lab ID:** E165002-62
Station ID: GM18 **Matrix:** Ambient Air

Date Collected: 12/1/16 7:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.96	J, Q-2	ug/m3	4.3	12/16/16 16:23	12/20/16 21:50	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.7	U	ug/m3	2.7	12/16/16 16:23	12/20/16 21:50	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.8	U	ug/m3	1.8	12/16/16 16:23	12/20/16 21:50	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	1.5	J, Q-2	ug/m3	2.4	12/16/16 16:23	12/20/16 21:50	EPA TO-15
107-06-2	1,2-Dichloroethane	1.9	U	ug/m3	1.9	12/16/16 16:23	12/20/16 21:50	EPA TO-15
71-43-2	Benzene	0.64	J, Q-2	ug/m3	1.6	12/16/16 16:23	12/20/16 21:50	EPA TO-15
67-66-3	Chloroform	2.3	U	ug/m3	2.3	12/16/16 16:23	12/20/16 21:50	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	0.42	J, Q-2	ug/m3	1.9	12/16/16 16:23	12/20/16 21:50	EPA TO-15
100-41-4	Ethyl Benzene	0.27	J, Q-2	ug/m3	2.1	12/16/16 16:23	12/20/16 21:50	EPA TO-15
75-09-2	Methylene Chloride	1.6	U	ug/m3	1.6	12/16/16 16:23	12/20/16 21:50	EPA TO-15
95-47-6	o-Xylene	0.55	J, Q-2	ug/m3	2.2	12/16/16 16:23	12/20/16 21:50	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.3	U	ug/m3	3.3	12/16/16 16:23	12/20/16 21:50	EPA TO-15
108-88-3	Toluene	1.1	J, Q-2	ug/m3	1.9	12/16/16 16:23	12/20/16 21:50	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/16/16 16:23	12/20/16 21:50	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.5	J, Q-2	ug/m3	2.6	12/16/16 16:23	12/20/16 21:50	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	12/16/16 16:23	12/20/16 21:50	EPA TO-15

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Project: 17-0050, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM19AA1116 **Lab ID:** E165002-63
Station ID: GM19 **Matrix:** Ambient Air

Date Collected: 11/29/16 7:12

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	6.9	U	ug/m3	6.9	12/16/16 16:23	12/21/16 0:27	EPA TO-15
79-00-5	1,1,2-Trichloroethane	4.3	U	ug/m3	4.3	12/16/16 16:23	12/21/16 0:27	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.9	U	ug/m3	2.9	12/16/16 16:23	12/21/16 0:27	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	3.9	U	ug/m3	3.9	12/16/16 16:23	12/21/16 0:27	EPA TO-15
107-06-2	1,2-Dichloroethane	3.1	U	ug/m3	3.1	12/16/16 16:23	12/21/16 0:27	EPA TO-15
71-43-2	Benzene	0.32	J, Q-2	ug/m3	2.5	12/16/16 16:23	12/21/16 0:27	EPA TO-15
67-66-3	Chloroform	3.7	U	ug/m3	3.7	12/16/16 16:23	12/21/16 0:27	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	3.1	U	ug/m3	3.1	12/16/16 16:23	12/21/16 0:27	EPA TO-15
100-41-4	Ethyl Benzene	3.4	U	ug/m3	3.4	12/16/16 16:23	12/21/16 0:27	EPA TO-15
75-09-2	Methylene Chloride	2.6	U	ug/m3	2.6	12/16/16 16:23	12/21/16 0:27	EPA TO-15
95-47-6	o-Xylene	3.4	U	ug/m3	3.4	12/16/16 16:23	12/21/16 0:27	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.2	U	ug/m3	5.2	12/16/16 16:23	12/21/16 0:27	EPA TO-15
108-88-3	Toluene	0.42	J, Q-2	ug/m3	2.9	12/16/16 16:23	12/21/16 0:27	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	3.2	U	ug/m3	3.2	12/16/16 16:23	12/21/16 0:27	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	4.2	U	ug/m3	4.2	12/16/16 16:23	12/21/16 0:27	EPA TO-15
75-01-4	Vinyl chloride	2.0	U	ug/m3	2.0	12/16/16 16:23	12/21/16 0:27	EPA TO-15

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Volatile Organics

Project: 17-0050, Grenada Manufacturing

Sample ID: GM19AA31116 **Lab ID:** E165002-65

Station ID: GM19 **Matrix:** Ambient Air

Date Collected: 12/1/16 7:13

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.59	J, Q-2	ug/m3	4.3	12/16/16 16:23	12/20/16 22:42	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.7	U	ug/m3	2.7	12/16/16 16:23	12/20/16 22:42	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.8	U	ug/m3	1.8	12/16/16 16:23	12/20/16 22:42	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	1.8	J, Q-2	ug/m3	2.4	12/16/16 16:23	12/20/16 22:42	EPA TO-15
107-06-2	1,2-Dichloroethane	1.9	U	ug/m3	1.9	12/16/16 16:23	12/20/16 22:42	EPA TO-15
71-43-2	Benzene	0.49	J, Q-2	ug/m3	1.5	12/16/16 16:23	12/20/16 22:42	EPA TO-15
67-66-3	Chloroform	2.3	U	ug/m3	2.3	12/16/16 16:23	12/20/16 22:42	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.9	U	ug/m3	1.9	12/16/16 16:23	12/20/16 22:42	EPA TO-15
100-41-4	Ethyl Benzene	2.1	U	ug/m3	2.1	12/16/16 16:23	12/20/16 22:42	EPA TO-15
75-09-2	Methylene Chloride	1.6	U	ug/m3	1.6	12/16/16 16:23	12/20/16 22:42	EPA TO-15
95-47-6	o-Xylene	0.53	J, Q-2	ug/m3	2.1	12/16/16 16:23	12/20/16 22:42	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.3	U	ug/m3	3.3	12/16/16 16:23	12/20/16 22:42	EPA TO-15
108-88-3	Toluene	0.74	J, Q-2	ug/m3	1.8	12/16/16 16:23	12/20/16 22:42	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.0	U	ug/m3	2.0	12/16/16 16:23	12/20/16 22:42	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.6	U	ug/m3	2.6	12/16/16 16:23	12/20/16 22:42	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	12/16/16 16:23	12/20/16 22:42	EPA TO-15

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1612034 - V TO-15 Air Canister										
Blank (1612034-BLK1)				Prepared: 12/06/16 Analyzed: 12/13/16						
EPA TO-15										
(m- and/or p-)Xylene	U	1.9	ug/m3							U
1,1,2-Trichloroethane	U	1.2	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.78	"							U
1,2,4-Trimethylbenzene	U	1.0	"							U
1,2-Dichloroethane	U	0.83	"							U
Benzene	U	0.67	"							U
Chloroform	U	1.0	"							U
cis-1,2-Dichloroethene	U	0.83	"							U
Ethyl Benzene	U	0.92	"							U
Methylene Chloride	U	0.70	"							U
o-Xylene	U	0.93	"							U
Tetrachloroethene (Tetrachloroethylene)	U	1.4	"							U
Toluene	U	0.80	"							U
trans-1,2-Dichloroethene	U	0.87	"							U
Trichloroethene (Trichloroethylene)	U	1.1	"							U
Vinyl chloride	U	0.53	"							U
LCS (1612034-BS1)				Prepared: 12/06/16 Analyzed: 12/13/16						
EPA TO-15										
(m- and/or p-)Xylene	4.9842		ppbv	4.4422		112	72-140			
1,1,2-Trichloroethane	2.3355		"	2.2211		105	71-142			
1,1-Dichloroethene (1,1-Dichloroethylene)	2.1881		"	2.2211		98.5	70-140			
1,2,4-Trimethylbenzene	2.5038		"	2.2211		113	66-136			
1,2-Dichloroethane	2.1845		"	2.2211		98.4	71-137			
Benzene	2.3181		"	2.2211		104	70-140			
Chloroform	2.3044		"	2.2211		104	70-141			
cis-1,2-Dichloroethene	2.2624		"	2.2211		102	70-136			
Ethyl Benzene	2.4775		"	2.2211		112	70-137			
Methylene Chloride	2.0410		"	2.2211		91.9	70-142			
o-Xylene	2.4835		"	2.2211		112	72-136			
Tetrachloroethene (Tetrachloroethylene)	2.4318		"	2.2211		109	68-148			
Toluene	2.3657		"	2.2211		107	72-138			
trans-1,2-Dichloroethene	1.9913		"	2.0192		98.6	73-136			
Trichloroethene (Trichloroethylene)	2.4134		"	2.2211		109	69-137			
Vinyl chloride	2.3263		"	2.4230		96.0	62-151			

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1612034 - V TO-15 Air Canister										
LCS Dup (1612034-BSD1)				Prepared: 12/06/16 Analyzed: 12/13/16						
EPA TO-15										
(m- and/or p-)Xylene	5.0465		ppbv	4.4422		114	72-140	1.24	25	
1,1,2-Trichloroethane	2.3528		"	2.2211		106	71-142	0.735	25	
1,1-Dichloroethene (1,1-Dichloroethylene)	2.2048		"	2.2211		99.3	70-140	0.759	25	
1,2,4-Trimethylbenzene	2.5178		"	2.2211		113	66-136	0.558	25	
1,2-Dichloroethane	2.1868		"	2.2211		98.5	71-137	0.104	25	
Benzene	2.3710		"	2.2211		107	70-140	2.26	25	
Chloroform	2.3386		"	2.2211		105	70-141	1.48	25	
cis-1,2-Dichloroethene	2.2917		"	2.2211		103	70-136	1.29	25	
Ethyl Benzene	2.5118		"	2.2211		113	70-137	1.37	25	
Methylene Chloride	2.0607		"	2.2211		92.8	70-142	0.964	25	
o-Xylene	2.5159		"	2.2211		113	72-136	1.29	25	
Tetrachloroethene (Tetrachloroethylene)	2.4686		"	2.2211		111	68-148	1.50	25	
Toluene	2.4003		"	2.2211		108	72-138	1.45	25	
trans-1,2-Dichloroethene	2.0193		"	2.0192		100	73-136	1.40	25	
Trichloroethene (Trichloroethylene)	2.4488		"	2.2211		110	69-137	1.45	25	
Vinyl chloride	2.3597		"	2.4230		97.4	62-151	1.43	25	
Duplicate (1612034-DUP1)		**Source: E165002-17**		Prepared: 12/06/16 Analyzed: 12/14/16						
EPA TO-15										
(m- and/or p-)Xylene	U	4.5	ug/m3		U				20	U
1,1,2-Trichloroethane	U	2.8	"		U				20	U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	1.9	"		U				20	U
1,2,4-Trimethylbenzene	0.26342	2.6	"		0.26031			1.19	20	D-2, Q-2, J
1,2-Dichloroethane	0.83474	2.0	"		0.84427			1.14	20	Q-2, J
Benzene	0.78977	1.6	"		0.78892			0.108	20	Q-2, J
Chloroform	0.27146	2.5	"		0.26435			2.66	20	Q-2, J
cis-1,2-Dichloroethene	U	2.0	"		U				20	U
Ethyl Benzene	U	2.2	"		U				20	U
Methylene Chloride	U	1.7	"		U				20	U
o-Xylene	0.23351	2.3	"		0.22929			1.82	20	Q-2, J
Tetrachloroethene (Tetrachloroethylene)	U	3.5	"		U				18.2	U
Toluene	5.9965	1.9	"		6.0588			1.03	20	
trans-1,2-Dichloroethene	U	2.1	"		U				20	U
Trichloroethene (Trichloroethylene)	U	2.7	"		0.28585				20	U
Vinyl chloride	U	1.3	"		U				20	U

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1612034 - V TO-15 Air Canister										
MRL Verification (1612034-PS1)				Prepared: 12/06/16 Analyzed: 12/13/16						
EPA TO-15										
(m- and/or p-)Xylene	0.50389		ppbv	0.44422		113	52-160			MRL-5
1,1,2-Trichloroethane	0.24277		"	0.22211		109	51-162			MRL-5
1,1-Dichloroethene (1,1-Dichloroethylene)	0.23556		"	0.22211		106	50-160			MRL-5
1,2,4-Trimethylbenzene	0.23892		"	0.22211		108	46-156			MRL-5
1,2-Dichloroethane	0.22920		"	0.22211		103	51-157			MRL-5
Benzene	0.24008		"	0.22211		108	50-160			MRL-5
Chloroform	0.23911		"	0.22211		108	50-161			MRL-5
cis-1,2-Dichloroethene	0.23649		"	0.22211		106	50-156			MRL-5
Ethyl Benzene	0.24956		"	0.22211		112	50-157			MRL-5
Methylene Chloride	0.23073		"	0.22211		104	50-162			MRL-5
o-Xylene	0.25022		"	0.22211		113	52-156			MRL-5
Tetrachloroethene (Tetrachloroethylene)	0.25419		"	0.22211		114	48-168			MRL-5
Toluene	0.24313		"	0.22211		109	52-158			MRL-5
trans-1,2-Dichloroethene	0.20120		"	0.20192		99.6	53-156			MRL-5
Trichloroethene (Trichloroethylene)	0.26288		"	0.22211		118	49-157			MRL-5
Vinyl chloride	0.24586		"	0.24230		101	42-171			MRL-5
Batch 1612071 - V TO-15 Air Canister										
Blank (1612071-BLK1)				Prepared: 12/13/16 Analyzed: 12/15/16						
EPA TO-15										
(m- and/or p-)Xylene	U	1.9	ug/m3							U
1,1,2-Trichloroethane	U	1.2	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.78	"							U
1,2,4-Trimethylbenzene	U	1.0	"							U
1,2-Dichloroethane	U	0.83	"							U
Benzene	U	0.67	"							U
Chloroform	U	1.0	"							U
cis-1,2-Dichloroethene	U	0.83	"							U
Ethyl Benzene	U	0.92	"							U
Methylene Chloride	U	0.70	"							U
o-Xylene	U	0.93	"							U
Tetrachloroethene (Tetrachloroethylene)	U	1.4	"							U
Toluene	U	0.80	"							U
trans-1,2-Dichloroethene	U	0.87	"							U
Trichloroethene (Trichloroethylene)	U	1.1	"							U
Vinyl chloride	U	0.53	"							U

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1612071 - V TO-15 Air Canister										
LCS (1612071-BS1)				Prepared: 12/13/16 Analyzed: 12/15/16						
EPA TO-15										
(m- and/or p-)Xylene	5.2810		ppbv	4.4422		119	72-140			
1,1,2-Trichloroethane	2.4755		"	2.2211		111	71-142			
1,1-Dichloroethene (1,1-Dichloroethylene)	2.8887		"	2.2211		130	70-140			
1,2,4-Trimethylbenzene	2.5442		"	2.2211		115	66-136			
1,2-Dichloroethane	2.6411		"	2.2211		119	71-137			
Benzene	2.5013		"	2.2211		113	70-140			
Chloroform	2.5131		"	2.2211		113	70-141			
cis-1,2-Dichloroethene	2.5212		"	2.2211		114	70-136			
Ethyl Benzene	2.6182		"	2.2211		118	70-137			
Methylene Chloride	3.2936		"	2.2211		148	70-142			QC-2, QL-2
o-Xylene	2.6328		"	2.2211		119	72-136			
Tetrachloroethene (Tetrachloroethylene)	2.4726		"	2.2211		111	68-148			
Toluene	2.5173		"	2.2211		113	72-138			
trans-1,2-Dichloroethene	2.6570		"	2.0192		132	73-136			QC-2
Trichloroethene (Trichloroethylene)	2.4996		"	2.2211		113	69-137			
Vinyl chloride	2.9328		"	2.4230		121	62-151			
LCS Dup (1612071-BSD1)				Prepared: 12/13/16 Analyzed: 12/15/16						
EPA TO-15										
(m- and/or p-)Xylene	5.3578		ppbv	4.4422		121	72-140	1.44	25	
1,1,2-Trichloroethane	2.5779		"	2.2211		116	71-142	4.05	25	
1,1-Dichloroethene (1,1-Dichloroethylene)	3.0236		"	2.2211		136	70-140	4.56	25	
1,2,4-Trimethylbenzene	2.6080		"	2.2211		117	66-136	2.48	25	
1,2-Dichloroethane	2.7378		"	2.2211		123	71-137	3.59	25	
Benzene	2.5770		"	2.2211		116	70-140	2.98	25	
Chloroform	2.5695		"	2.2211		116	70-141	2.22	25	
cis-1,2-Dichloroethene	2.6292		"	2.2211		118	70-136	4.20	25	
Ethyl Benzene	2.6652		"	2.2211		120	70-137	1.78	25	
Methylene Chloride	3.4222		"	2.2211		154	70-142	3.83	25	QC-2, QL-2
o-Xylene	2.6932		"	2.2211		121	72-136	2.27	25	
Tetrachloroethene (Tetrachloroethylene)	2.5842		"	2.2211		116	68-148	4.41	25	
Toluene	2.6349		"	2.2211		119	72-138	4.57	25	
trans-1,2-Dichloroethene	2.7706		"	2.0192		137	73-136	4.19	25	QC-2, QL-2
Trichloroethene (Trichloroethylene)	2.5877		"	2.2211		117	69-137	3.46	25	
Vinyl chloride	3.1542		"	2.4230		130	62-151	7.27	25	

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1612071 - V TO-15 Air Canister										
Duplicate (1612071-DUP1)		**Source: E165002-28**		Prepared: 12/13/16 Analyzed: 12/16/16						
EPA TO-15										
(m- and/or p-)Xylene	0.70412	4.8	ug/m3		0.66800			5.27	20	Q-2, J
1,1,2-Trichloroethane	U	3.0	"		U				20	U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	2.0	"		U				20	U
1,2,4-Trimethylbenzene	U	2.7	"		U				20	U
1,2-Dichloroethane	0.31074	2.1	"		0.33941			8.82	20	Q-2, J
Benzene	1.0794	1.7	"		1.1084			2.65	20	Q-2, J
Chloroform	3.1966	2.6	"		3.1607			1.13	20	
cis-1,2-Dichloroethene	U	2.1	"		U				20	U
Ethyl Benzene	0.27646	2.4	"		0.25409			8.43	20	Q-2, J
Methylene Chloride	2.8125	1.8	"		2.8282			0.555	20	QC-2, QL-2, QR-2
o-Xylene	0.27646	2.4	"		0.30431			9.59	20	Q-2, J
Tetrachloroethene (Tetrachloroethylene)	U	3.7	"		U				18.2	U
Toluene	4.9172	2.1	"		4.9209			0.0750	20	
trans-1,2-Dichloroethene	U	2.2	"		U				20	U
Trichloroethene (Trichloroethylene)	U	2.9	"		U				20	U
Vinyl chloride	U	1.4	"		U				20	U
MRL Verification (1612071-PS1)				Prepared: 12/13/16 Analyzed: 12/15/16						
EPA TO-15										
(m- and/or p-)Xylene	0.53434		ppbv	0.44422		120	52-160			MRL-5
1,1,2-Trichloroethane	0.26252		"	0.22211		118	51-162			MRL-5
1,1-Dichloroethene (1,1-Dichloroethylene)	0.30085		"	0.22211		135	50-160			MRL-5
1,2,4-Trimethylbenzene	0.24813		"	0.22211		112	46-156			MRL-5
1,2-Dichloroethane	0.28624		"	0.22211		129	51-157			MRL-5
Benzene	0.28188		"	0.22211		127	50-160			MRL-5
Chloroform	0.27665		"	0.22211		125	50-161			MRL-5
cis-1,2-Dichloroethene	0.26099		"	0.22211		118	50-156			MRL-5
Ethyl Benzene	0.26902		"	0.22211		121	50-157			MRL-5
Methylene Chloride	0.37098		"	0.22211		167	50-162			MRL-5, QC-2, QR-2
o-Xylene	0.27257		"	0.22211		123	52-156			MRL-5
Tetrachloroethene (Tetrachloroethylene)	0.26385		"	0.22211		119	48-168			MRL-5
Toluene	0.26752		"	0.22211		120	52-158			MRL-5
trans-1,2-Dichloroethene	0.28417		"	0.20192		141	53-156			MRL-5, QC-2
Trichloroethene (Trichloroethylene)	0.27781		"	0.22211		125	49-157			MRL-5
Vinyl chloride	0.31599		"	0.24230		130	42-171			MRL-5

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1612071 - V TO-15 Air Canister										
MRL Verification (1612071-PS1)				Prepared: 12/13/16 Analyzed: 12/15/16						
Batch 1612078 - V TO-15 Air Canister										
Blank (1612078-BLK1)				Prepared: 12/14/16 Analyzed: 12/16/16						
EPA TO-15										
(m- and/or p-)Xylene	U	1.9	ug/m3							U
1,1,2-Trichloroethane	U	1.2	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.78	"							U
1,2,4-Trimethylbenzene	U	1.0	"							U
1,2-Dichloroethane	U	0.83	"							U
Benzene	U	0.67	"							U
Chloroform	U	1.0	"							U
cis-1,2-Dichloroethene	U	0.83	"							U
Ethyl Benzene	U	0.92	"							U
Methylene Chloride	U	0.70	"							U
o-Xylene	U	0.93	"							U
Tetrachloroethene (Tetrachloroethylene)	U	1.4	"							U
Toluene	U	0.80	"							U
trans-1,2-Dichloroethene	U	0.87	"							U
Trichloroethene (Trichloroethylene)	U	1.1	"							U
Vinyl chloride	U	0.53	"							U
Blank (1612078-BLK2)				Prepared: 12/14/16 Analyzed: 12/17/16						
EPA TO-15										
(m- and/or p-)Xylene	U	1.9	ug/m3							U
1,1,2-Trichloroethane	U	1.2	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.78	"							U
1,2,4-Trimethylbenzene	U	1.0	"							U
1,2-Dichloroethane	U	0.83	"							U
Benzene	U	0.67	"							U
Chloroform	U	1.0	"							U
cis-1,2-Dichloroethene	U	0.83	"							U
Ethyl Benzene	U	0.92	"							U
Methylene Chloride	U	0.70	"							U
o-Xylene	U	0.93	"							U
Tetrachloroethene (Tetrachloroethylene)	U	1.4	"							U
Toluene	U	0.80	"							U
trans-1,2-Dichloroethene	U	0.87	"							U
Trichloroethene (Trichloroethylene)	U	1.1	"							U
Vinyl chloride	U	0.53	"							U

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1612078 - V TO-15 Air Canister										
Blank (1612078-BLK2)				Prepared: 12/14/16 Analyzed: 12/17/16						
LCS (1612078-BS1)				Prepared: 12/14/16 Analyzed: 12/16/16						
EPA TO-15										
(m- and/or p-)Xylene	5.3167		ppbv	4.4422		120	72-140			
1,1,2-Trichloroethane	2.5237		"	2.2211		114	71-142			
1,1-Dichloroethene (1,1-Dichloroethylene)	2.8359		"	2.2211		128	70-140			
1,2,4-Trimethylbenzene	2.6644		"	2.2211		120	66-136			
1,2-Dichloroethane	2.8729		"	2.2211		129	71-137			
Benzene	2.5206		"	2.2211		113	70-140			
Chloroform	2.7193		"	2.2211		122	70-141			
cis-1,2-Dichloroethene	2.6298		"	2.2211		118	70-136			
Ethyl Benzene	2.6028		"	2.2211		117	70-137			
Methylene Chloride	2.6414		"	2.2211		119	70-142			
o-Xylene	2.6374		"	2.2211		119	72-136			
Tetrachloroethene (Tetrachloroethylene)	2.5737		"	2.2211		116	68-148			
Toluene	2.5541		"	2.2211		115	72-138			
trans-1,2-Dichloroethene	2.4843		"	2.0192		123	73-136			
Trichloroethene (Trichloroethylene)	2.5492		"	2.2211		115	69-137			
Vinyl chloride	3.0355		"	2.4230		125	62-151			
LCS Dup (1612078-BSD1)				Prepared: 12/14/16 Analyzed: 12/16/16						
EPA TO-15										
(m- and/or p-)Xylene	5.2865		ppbv	4.4422		119	72-140	0.570	25	
1,1,2-Trichloroethane	2.5680		"	2.2211		116	71-142	1.74	25	
1,1-Dichloroethene (1,1-Dichloroethylene)	2.7750		"	2.2211		125	70-140	2.17	25	
1,2,4-Trimethylbenzene	2.6593		"	2.2211		120	66-136	0.193	25	
1,2-Dichloroethane	2.9282		"	2.2211		132	71-137	1.91	25	
Benzene	2.5814		"	2.2211		116	70-140	2.38	25	
Chloroform	2.7721		"	2.2211		125	70-141	1.92	25	
cis-1,2-Dichloroethene	2.5611		"	2.2211		115	70-136	2.65	25	
Ethyl Benzene	2.6113		"	2.2211		118	70-137	0.325	25	
Methylene Chloride	2.5731		"	2.2211		116	70-142	2.62	25	
o-Xylene	2.6514		"	2.2211		119	72-136	0.529	25	
Tetrachloroethene (Tetrachloroethylene)	2.6312		"	2.2211		118	68-148	2.21	25	
Toluene	2.5974		"	2.2211		117	72-138	1.68	25	
trans-1,2-Dichloroethene	2.3789		"	2.0192		118	73-136	4.33	25	
Trichloroethene (Trichloroethylene)	2.6734		"	2.2211		120	69-137	4.76	25	
Vinyl chloride	3.0117		"	2.4230		124	62-151	0.787	25	

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1612078 - V TO-15 Air Canister										
Duplicate (1612078-DUP1)	**Source: E165002-45**			Prepared: 12/14/16 Analyzed: 12/17/16						
EPA TO-15										
(m- and/or p-)Xylene	U	4.3	ug/m3		U				20	U
1,1,2-Trichloroethane	U	2.7	"		U				20	U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	1.8	"		U				20	U
1,2,4-Trimethylbenzene	U	2.4	"		U				20	U
1,2-Dichloroethane	U	1.9	"		U				20	U
Benzene	0.51003	1.5	"		0.49696			2.60	20	Q-2, J
Chloroform	0.32226	2.3	"		0.30779			4.59	20	Q-2, J
cis-1,2-Dichloroethene	U	1.9	"		U				20	U
Ethyl Benzene	U	2.1	"		U				20	U
Methylene Chloride	U	1.6	"		U				20	U
o-Xylene	0.30626	2.1	"		0.32862			7.04	20	Q-2, J
Tetrachloroethene (Tetrachloroethylene)	U	3.3	"		U				18.2	U
Toluene	0.38175	1.8	"		0.38782			1.58	20	Q-2, J
trans-1,2-Dichloroethene	U	2.0	"		U				20	U
Trichloroethene (Trichloroethylene)	U	2.6	"		U				20	U
Vinyl chloride	U	1.2	"		U				20	U
MRL Verification (1612078-PS1)				Prepared: 12/14/16 Analyzed: 12/16/16						
EPA TO-15										
(m- and/or p-)Xylene	0.53573		ppbv	0.44422		121	52-160			MRL-5
1,1,2-Trichloroethane	0.25595		"	0.22211		115	51-162			MRL-5
1,1-Dichloroethene (1,1-Dichloroethylene)	0.28984		"	0.22211		130	50-160			MRL-5
1,2,4-Trimethylbenzene	0.26120		"	0.22211		118	46-156			MRL-5
1,2-Dichloroethane	0.31023		"	0.22211		140	51-157			MRL-5
Benzene	0.28557		"	0.22211		129	50-160			MRL-5
Chloroform	0.30442		"	0.22211		137	50-161			MRL-5
cis-1,2-Dichloroethene	0.26609		"	0.22211		120	50-156			MRL-5
Ethyl Benzene	0.27813		"	0.22211		125	50-157			MRL-5
Methylene Chloride	0.29121		"	0.22211		131	50-162			MRL-5
o-Xylene	0.27911		"	0.22211		126	52-156			MRL-5
Tetrachloroethene (Tetrachloroethylene)	0.27155		"	0.22211		122	48-168			MRL-5
Toluene	0.27393		"	0.22211		123	52-158			MRL-5
trans-1,2-Dichloroethene	0.25764		"	0.20192		128	53-156			MRL-5
Trichloroethene (Trichloroethylene)	0.27420		"	0.22211		123	49-157			MRL-5
Vinyl chloride	0.32107		"	0.24230		133	42-171			MRL-5

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1612083 - V TO-15 Air Canister										
Blank (1612083-BLK1)				Prepared: 12/16/16 Analyzed: 12/20/16						
EPA TO-15										
(m- and/or p-)Xylene	U	1.9	ug/m3							U
1,1,2-Trichloroethane	U	1.2	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.78	"							U
1,2,4-Trimethylbenzene	U	1.0	"							U
1,2-Dichloroethane	U	0.83	"							U
Benzene	U	0.67	"							U
Chloroform	U	1.0	"							U
cis-1,2-Dichloroethene	U	0.83	"							U
Ethyl Benzene	U	0.92	"							U
Methylene Chloride	U	0.70	"							U
o-Xylene	U	0.93	"							U
Tetrachloroethene (Tetrachloroethylene)	U	1.4	"							U
Toluene	U	0.80	"							U
trans-1,2-Dichloroethene	U	0.87	"							U
Trichloroethene (Trichloroethylene)	U	1.1	"							U
Vinyl chloride	U	0.53	"							U
LCS (1612083-BS1)				Prepared: 12/16/16 Analyzed: 12/20/16						
EPA TO-15										
(m- and/or p-)Xylene	4.4455		ppbv	4.3459		102	72-140			
1,1,2-Trichloroethane	2.0839		"	2.1729		95.9	71-142			
1,1-Dichloroethene (1,1-Dichloroethylene)	2.2364		"	2.1729		103	70-140			
1,2,4-Trimethylbenzene	2.2500		"	2.1729		104	66-136			
1,2-Dichloroethane	2.4331		"	2.1729		112	71-137			
Benzene	2.0020		"	2.1729		92.1	70-140			
Chloroform	2.2770		"	2.1729		105	70-141			
cis-1,2-Dichloroethene	2.0884		"	2.1729		96.1	70-136			
Ethyl Benzene	2.1747		"	2.1729		100	70-137			
Methylene Chloride	2.1350		"	2.1729		98.3	70-142			
o-Xylene	2.2342		"	2.1729		103	72-136			
Tetrachloroethene (Tetrachloroethylene)	2.0653		"	2.1729		95.0	68-148			
Toluene	2.0305		"	2.1729		93.4	72-138			
trans-1,2-Dichloroethene	1.9190		"	2.1532		89.1	73-136			
Trichloroethene (Trichloroethylene)	2.0818		"	2.1729		95.8	69-137			
Vinyl chloride	2.4197		"	2.3705		102	62-151			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 16-0152
Project: 17-0050, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1612083 - V TO-15 Air Canister										
LCS Dup (1612083-BSD1)				Prepared: 12/16/16 Analyzed: 12/20/16						
EPA TO-15										
(m- and/or p-)Xylene	4.3999		ppbv	4.3459		101	72-140	1.03	25	
1,1,2-Trichloroethane	2.0338		"	2.1729		93.6	71-142	2.44	25	
1,1-Dichloroethene (1,1-Dichloroethylene)	2.2921		"	2.1729		105	70-140	2.46	25	
1,2,4-Trimethylbenzene	2.1982		"	2.1729		101	66-136	2.33	25	
1,2-Dichloroethane	2.4639		"	2.1729		113	71-137	1.26	25	
Benzene	2.0295		"	2.1729		93.4	70-140	1.36	25	
Chloroform	2.2802		"	2.1729		105	70-141	0.143	25	
cis-1,2-Dichloroethene	2.0912		"	2.1729		96.2	70-136	0.131	25	
Ethyl Benzene	2.1661		"	2.1729		99.7	70-137	0.397	25	
Methylene Chloride	2.0854		"	2.1729		96.0	70-142	2.35	25	
o-Xylene	2.1848		"	2.1729		101	72-136	2.23	25	
Tetrachloroethene (Tetrachloroethylene)	2.0957		"	2.1729		96.4	68-148	1.46	25	
Toluene	2.0626		"	2.1729		94.9	72-138	1.57	25	
trans-1,2-Dichloroethene	1.9383		"	2.1532		90.0	73-136	1.00	25	
Trichloroethene (Trichloroethylene)	2.1007		"	2.1729		96.7	69-137	0.902	25	
Vinyl chloride	2.4934		"	2.3705		105	62-151	3.00	25	
Duplicate (1612083-DUP1)		**Source: E165002-57**		Prepared: 12/16/16 Analyzed: 12/20/16						
EPA TO-15										
(m- and/or p-)Xylene	U	4.7	ug/m3		U				20	U
1,1,2-Trichloroethane	U	2.9	"		U				20	U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	2.0	"		U				20	U
1,2,4-Trimethylbenzene	U	2.6	"		U				20	U
1,2-Dichloroethane	U	2.1	"		U				20	U
Benzene	0.32996	1.7	"		0.30710			7.18	20	Q-2, J
Chloroform	U	2.5	"		U				20	U
cis-1,2-Dichloroethene	U	2.1	"		U				20	U
Ethyl Benzene	U	2.3	"		U				20	U
Methylene Chloride	U	1.8	"		U				20	U
o-Xylene	U	2.3	"		U				20	U
Tetrachloroethene (Tetrachloroethylene)	U	3.6	"		U				18.2	U
Toluene	0.37286	2.0	"		0.33795			9.82	20	Q-2, J
trans-1,2-Dichloroethene	U	2.2	"		U				20	U
Trichloroethene (Trichloroethylene)	U	2.8	"		U				20	U
Vinyl chloride	U	1.3	"		U				20	U

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1612083 - V TO-15 Air Canister										
MRL Verification (1612083-PS1)				Prepared: 12/16/16 Analyzed: 12/20/16						
EPA TO-15										
(m- and/or p-)Xylene	0.43057		ppbv	0.43459		99.1	52-160			MRL-5
1,1,2-Trichloroethane	0.20515		"	0.21729		94.4	51-162			MRL-5
1,1-Dichloroethene (1,1-Dichloroethylene)	0.22762		"	0.21729		105	50-160			MRL-5
1,2,4-Trimethylbenzene	0.21004		"	0.21729		96.7	46-156			MRL-5
1,2-Dichloroethane	0.25011		"	0.21729		115	51-157			MRL-5
Benzene	0.19765		"	0.21729		91.0	50-160			MRL-5
Chloroform	0.23094		"	0.21729		106	50-161			MRL-5
cis-1,2-Dichloroethene	0.22704		"	0.21729		104	50-156			MRL-5
Ethyl Benzene	0.22636		"	0.21729		104	50-157			MRL-5
Methylene Chloride	0.21658		"	0.21729		99.7	50-162			MRL-5
o-Xylene	0.21601		"	0.21729		99.4	52-156			MRL-5
Tetrachloroethene (Tetrachloroethylene)	0.21055		"	0.21729		96.9	48-168			MRL-5
Toluene	0.20679		"	0.21729		95.2	52-158			MRL-5
trans-1,2-Dichloroethene	0.19200		"	0.21532		89.2	53-156			MRL-5
Trichloroethene (Trichloroethylene)	0.22159		"	0.21729		102	49-157			MRL-5
Vinyl chloride	0.27114		"	0.23705		114	42-171			MRL-5

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
D-2	Due to Matrix Interference, the sample cannot be accurately quantified. The reported result is estimated.
J	The identification of the analyte is acceptable; the reported value is an estimate.
MRL-5	MRL verification for Air matrix
Q-2	Result greater than MDL but less than MRL.
QC-2	Analyte concentration high in continuing calibration verification standard
QL-2	Laboratory Control Spike Recovery greater than method control limits
QR-2	MRL verification recovery greater than upper control limits.

United States Environmental Protection Agency
Region 4
Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720

Grenada Manufacturing (a.k.a Rockwell International Wheel and Trim) Vapor Intrusion Sampling Investigation

PROJECT LOCATION: Grenada, Grenada County, Mississippi
PROJECT ID NUMBER: 17-0050
PROJECT LEADER: Tim Slagle

Air Sampling Logbook

Book 1 **of** 1
Inclusive Dates: 11/28/16 – 12/2/16

List of personnel in logbook:

Name	Initials	Duties
Landon Pruitt	LP	notes, sampler, Team Leader
TIM Slagle	TS	Sampler, Project Leader

Team Leader (Initials) _____ Date 12/2/16

TABLE 1 Sample Station Information					
Station ID	**Sample ID**	**Location/Address**	**Latitude***	**Longitude***	**Matrix**
GM01	GM01AA1116	South ambient air location	33.80506895	-89.80015824	Ambient Air
GM11	GM11AA1116	West ambient air location	33.80636768	-89.80076134	
GM12	GM12AA1116	North ambient air location	33.80595308	-89.79941396	
GM13	GM13AA1116	East ambient air location	33.80511017	-89.79804096	
GM107	GM107SS1116	110 Lyon Drive	33.80507488	-89.79958934	Subslab Soil Gas
	GM107IA0516				Indoor Air
GM108	GM108SS1116	(b) (6)	33.80495638	-89.79941821	Subslab Soil Gas
	GM108IA1116				Indoor Air
GM109	GM109SS1116		33.80515783	-89.79911873	Subslab Soil Gas
	GM109IA116				Indoor Air
GM110	GM110SS1116		33.80500378	-89.79898326	Subslab Soil Gas
	GM110IA1116				Indoor Air
GM111	GM111SS1116		33.80490898	-89.79866952	Subslab Soil Gas
	GM111IA1116				Indoor Air
GM112	GM112SS1116		33.80503933	-89.79845561	Subslab Soil Gas
	GM112IA1116				Indoor Air
GM113	GM113SS1116		33.8052704	-89.79844848	Subslab Soil Gas
	GM113IA1116				Indoor Air
GM114	GM114SS1116		33.80540075	-89.79862674	Subslab Soil Gas
	GM114IA1116				Indoor Air
GM115	GM115SS1116		33.80551924	-89.79876935	Subslab Soil Gas
	GM115IA1116				Indoor Air
GM116	GM116SS1116		33.80578586	-89.79914013	Subslab Soil Gas
	GM116IA1116				Indoor Air
GM117	GM117SS1116		33.80558442	-89.79930412	Subslab Soil Gas
	GM117IA1116				Indoor Air
GM118	GM118SS1116		33.80544222	-89.79945386	Subslab Soil Gas
	GM118IA1116				Indoor Air
GM119	GM119SS1116		33.80573846	-89.79997438	Subslab Soil Gas
	GM119IA1116				Indoor Air
GM120	GM1020SS1116		33.80590436	-89.79983177	Subslab Soil Gas
	GM120IA1116				Indoor Air
GM121	GM121SS1116		33.8060584	-89.7996963	Subslab Soil Gas
	GM121IA1116				Indoor Air
GM122	GM122SS1116		33.80594583	-89.80039507	Subslab Soil Gas
	GM122IA1116				Indoor Air
GM123	GM123SS1116		33.80607618	-89.80064464	Subslab Soil Gas
	GM123IA1116				Indoor Air
GM124	GM124SS1116		33.8062006	-89.80087994	Subslab Soil Gas
	GM124IA1116				Indoor Air
xxxxx	xxxxxAAD1116	duplicate sample locations to be determined in the field	-	-	Ambient Air
xxxxx	xxxxxIAD1116		-	-	Indoor Air
xxxxx	xxxxxIAD1116		-	-	Indoor Air
xxxxx	xxxxxSSD1116		-	-	Subslab Soil Gas
xxxxx	xxxxxSSD1116		-	-	Subslab Soil Gas
#R4DART#	GMTBA0516	-	-	-	Trip Blank Air

* Latitudes and Longitudes for indoor air and sub-slab soil gas samples are recorded for the the center of the house, the samples may not be taken directly at that spot.

Team Leader (Initials) _____ Date 12/2/16

General Sampling Methods:

Ambient Air samples will be collected using 6L Summa Canisters with a 24 hour flow controller following EPA Method TO-15 for Volatile Organics collection.

Sub-Slab Soil Gas samples will be collected by connecting a 6L Summa Canister to a critical orifice soil gas controller which will be connected via Teflon tubing to a permanent sampling port installed by EPA. The sampling techniques will follow SESD Soil Gas Sampling SOP SESDPROC-307-R3.

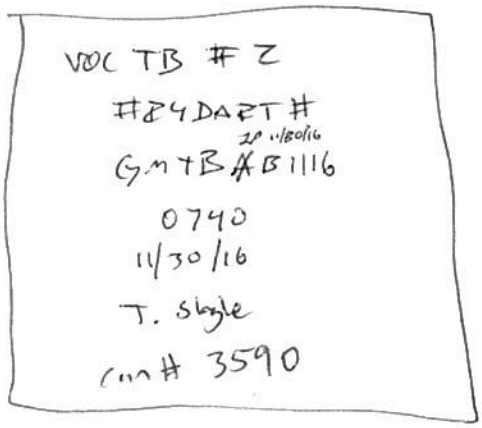
11/20/16

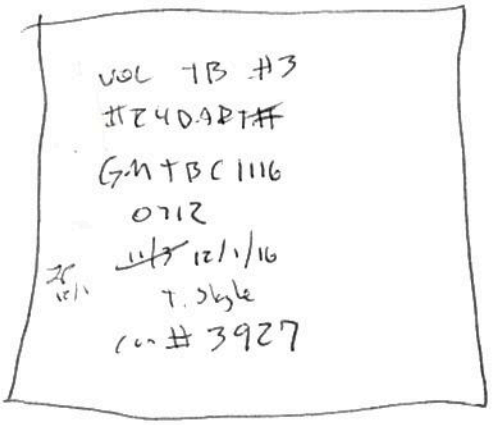
VOC Air Trip Blank
Station ID: #R4DART#
Sample ID: GMTBA~~0516~~ 1116
Sample Time: 0710
Sample Date: 11/29/16
Collected by: Slagle

Notes: Can # 20650

Meteorological Station Set-up
Model Used: R.M. Young
Start Date and Time: 11/28/16
End Date and Time: 12/2/16
Location: old road on site
Data Saved Location:

Notes:





Team Leader (Initials) _____ Date 12/2/16

Station I.D. GM19 Sample I.D. GM19AA1116 Date. 11/29/16
<Station ID><media code><Date>

GPS Location 33.804308716 -89.806395662

Street Address — South Landfill new site

Site Description next to gravel road, south end of slurry wall

Type of sample: (Ambient Air Sample) Indoor Air Sample Soil Gas Sample

Sampling ~~Depth~~ Height 6' Orifice or Flow Controller # FC1

Canister # 20834

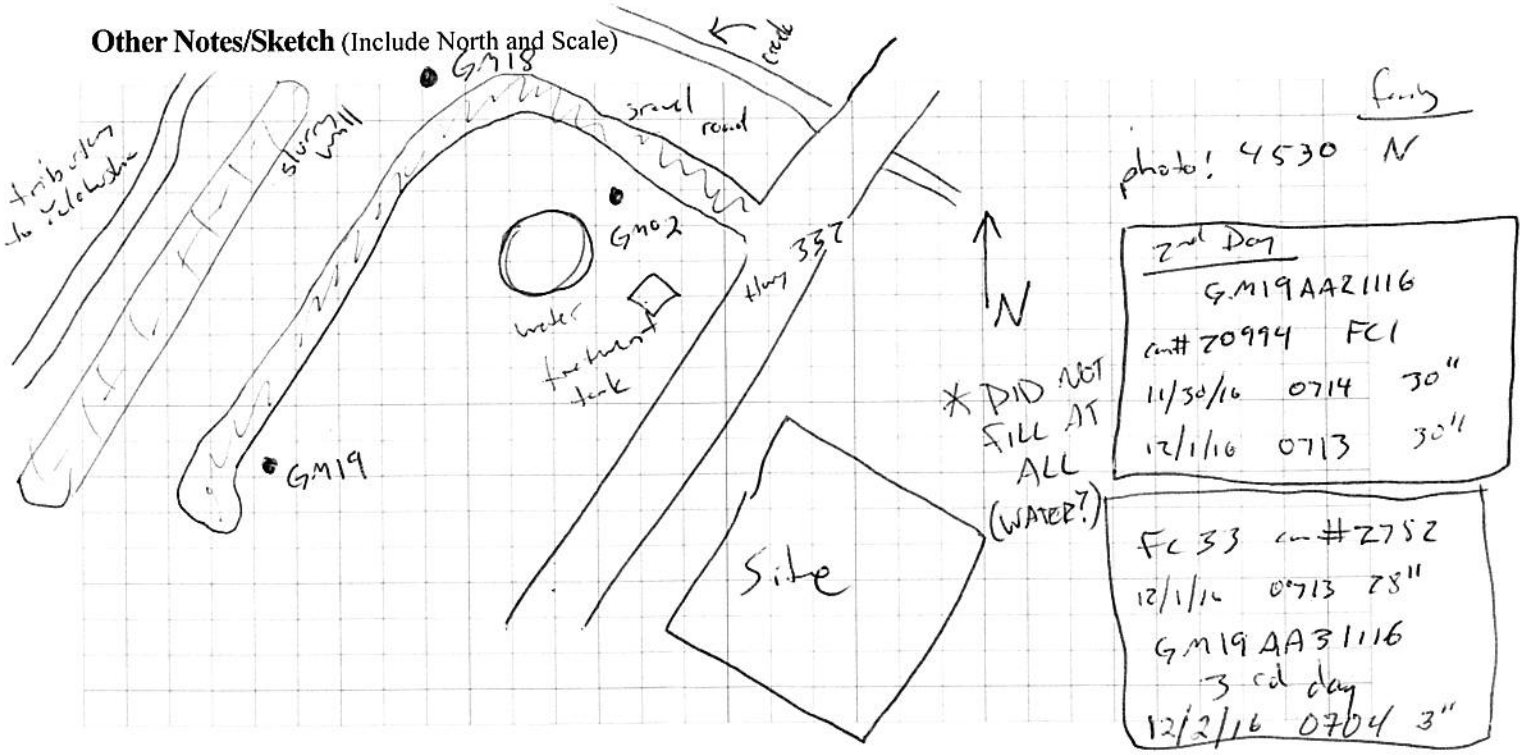
Name of Person Collecting Sample T. Slagle

		Can Pressure Gauge	
Start Date 11/29/16	Start Time 0712	Initial 30"	
Stop Date 11/30/16	Stop Time 0710	Final 14"	

* lots of wind and rain on 11/29; low pressure system w/ tornadoes nearby

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



Team Leader (Initials) _____ Date 12/2/16

Station I.D. GM18 Sample I.D. GM18AA1116 Date. 11/29/16
<Station ID><media code><Date>

GPS Location 33.806477398 - 89.805006815

Street Address — North Landfill new site

Site Description next to gravel road at turn just N of slurry wall; west of site

Type of sample: (Ambient Air Sample) Indoor Air Sample Soil Gas Sample

Sampling ~~Depth~~ Height 6' Orifice or Flow Controller # FC 2

Canister # 3588

Name of Person Collecting Sample T. Slayle

Can Pressure Gauge

Start Date 11/29/16 Start Time 0721 Initial 30"

Stop Date 11/30/16 Stop Time 0718 Final 12"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

see ng on pg. 5

photo: 4531 facing E

4532 S

2nd day
GM18AA21116
Can# 20970 FC2
11/30/16 0720 30" Hg
~~11/30/16~~ 12/1/16 0722 30"

3rd day
GM18AA31116
Can# 20654
FC 35
12/1/16 0725 30"
12/2/16 0711 5"

* no air flow, filled w/ water? blockage?

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM02 Sample I.D. GM02AA1116 Date. 11/29/16
<Station ID><media code><Date>

GPS Location –

Street Address – Old Water Treatment Plant

Site Description b/w gravel road (to slurry mill) and old water treatment tank; west of site

Type of sample: (Ambient Air Sample) Indoor Air Sample Soil Gas Sample

Sampling ~~Depth~~ Height 6' Orifice or Flow Controller # FC3

Canister # 20987

Name of Person Collecting Sample T. Slayle

		Can Pressure Gauge	
Start Date 11/29/16	Start Time 0728	Initial 30"	
Stop Date 11/30/16	Stop Time 0725	Final 6"	

X weather note on pg 5, stand blew over, but still filled fine

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

see map – pg 5

photo: 4533 E facing
4534 E

2nd day
GM02AA21116
Can# 20645 FC3
11/30/16 0728 30"
12/1/16 0732 4"

3rd day
GM02AA31116
can# 3931 FC3
12/1/16 0735 30" Hg
12/2/16 0717 6"

Team Leader (Initials) EJ Date 12/2/16

Station I.D. GM01 Sample I.D. GM01AA1116 Date. 11/29/16
<Station ID><media code><Date>

GPS Location –

Street Address –

Site Description b/w site and neighborhood

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling ~~Depth~~ Height 6' Orifice or Flow Controller # FC4

Canister # 20976

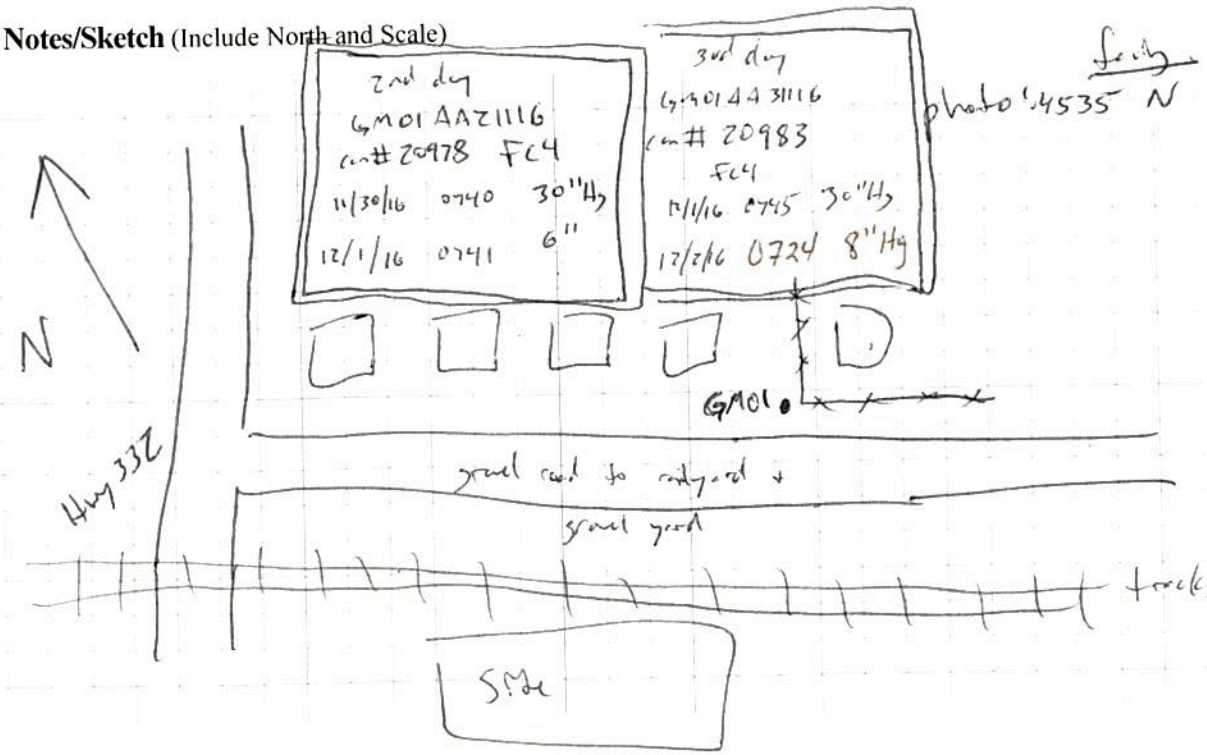
Name of Person Collecting Sample T. Sisk

		Can Pressure Gauge	
Start Date 11/29/16	Start Time 0744	Initial 30"	
Stop Date 11/30/16	Stop Time 0735	Final 4"	

- liquified petroleum gas tanks parked on trucks (11/29 7:40a)

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM01 Sample I.D. GM01AA1116D Date. 11/29/16
<Station ID><media code><Date>

GPS Location page 8

Street Address —

Site Description seepage 8, dry branch

Type of sample: (Ambient Air Sample) Indoor Air Sample Soil Gas Sample

Sampling ~~Depth~~ Height 6' Orifice or Flow Controller # FC 6

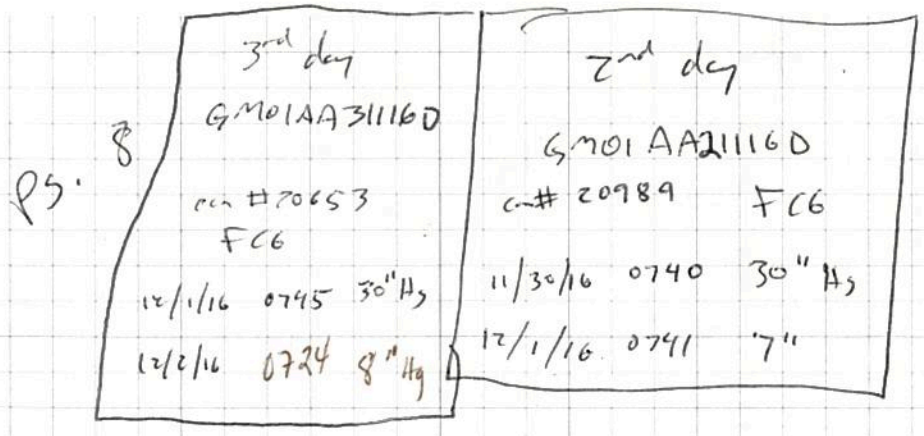
Canister # 14673

Name of Person Collecting Sample T. Slagle

		Can Pressure Gauge	
Start Date 11/29/16	Start Time 0744	Initial	30"
Stop Date 11/30/16	Stop Time 0735	Final	4"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM11 Sample I.D. GM11AA1116 Date. 11/29/16
<Station ID><media code><Date>

GPS Location —

Street Address ~~103~~ 101 Lyon Dr.
JP 11/29/16

Site Description in backyard of 101 Lyon Dr.

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling ~~Depth~~ Height 6' Orifice or Flow Controller # FC5

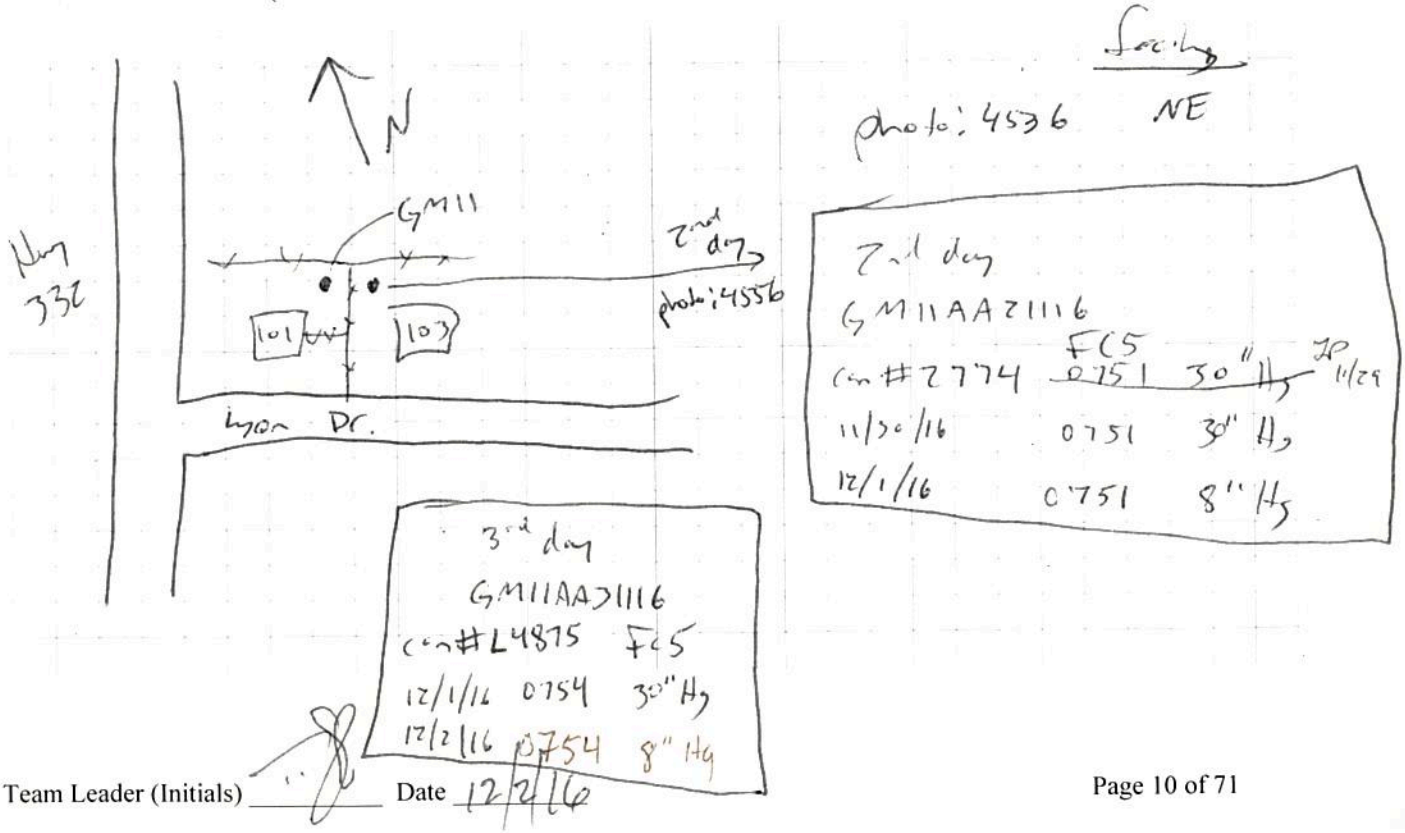
Canister # 6687

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date	11/29/16	Start Time ~~11~~ 21 0750	Initial 30"
Stop Date	11/30/16	Stop Time 0749	Final 8"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



Team Leader (Initials) _____ Date 12/2/16

Station I.D. GM12 Sample I.D. GM12AA1116 Date. 11/29/16
<Station ID><media code><Date>

GPS Location –

Street Address (b) (6)
ZIP 11/29

Site Description neighborhood ditch behind 151 Tallahoma

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling ~~Depth~~ Height 6' Orifice or Flow Controller # FC13

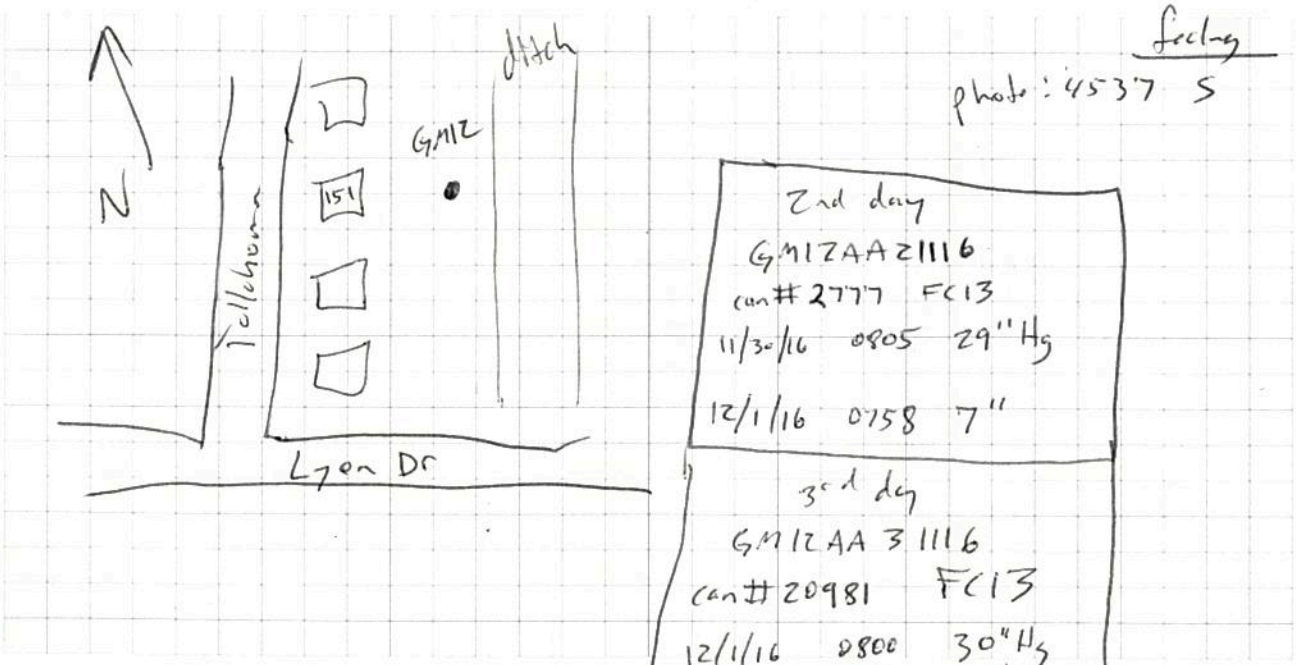
Canister # 4152

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 11/29/16	Start Time 0800	Initial	30"
Stop Date 11/30/16	Stop Time 0803	Final	5"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



Team Leader (Initials) Date 12/2/16

Station I.D. GM13 Sample I.D. GM13AA1116 Date. 11/29/16
<Station ID><media code><Date>

GPS Location —

Street Address —

Site Description behind 170 Rockwell, cul-de-sac

Type of sample: ~~Ambient Air Sample~~ Indoor Air Sample Soil Gas Sample

Sampling ~~Depth~~ Height 6' Orifice or Flow Controller # FC14

Canister # 4477

Name of Person Collecting Sample T. Shugle

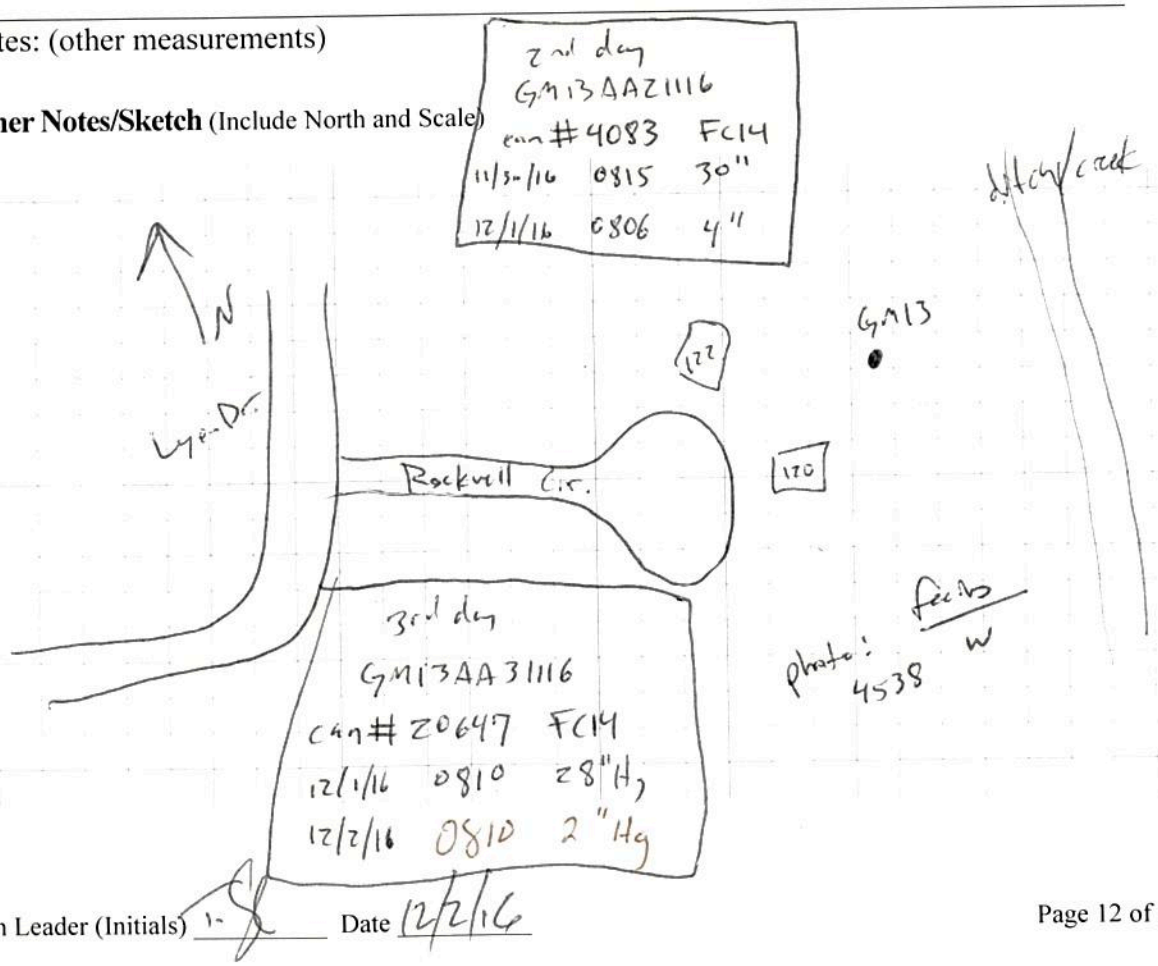
Can Pressure Gauge

Start Date 11/29/16 Start Time 0808 Initial 30"

Stop Date 11/30/16 Stop Time 0812 Final 5"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



Team Leader (Initials) [illegible] Date 12/2/16

#15 30 ~~31~~

Station I.D. GM115 Sample I.D. GM115SS1116 Date. ~~11/29~~/16
<Station ID><media code><Date>

GPS Location –

Street Address (b) (6) [redacted]

Site Description ~~map~~ 2nd 11/29 middle of home, same location 5/2016, 16-0323

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth 6" Orifice or Flow Controller # SGC 1

Canister # 20977

Name of Person Collecting Sample T. Slayle

2nd 11/30/16

Can Pressure Gauge

Start Date ~~11~~/30/16 Start Time 1549 Initial 30" Hg

Stop Date ~~11/30/16~~ 12/01/16 Stop Time 1623 Final 2"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

See map 16-0323 Logbook 1

photo: 4570

- soil below slab was wet would pull w/ the test pump @ -800

He leak test! shroud: 90+ %

test: 9.32

Team Leader (Initials) _____ Date 12/2/16

Station I.D. GM11X 5 11/29 Sample I.D. ~~GM111SS111C~~ GM115IA1116 11/29 <Station ID><media code><Date> Date. 11/30/16

GPS Location _____

Street Address (b) (6) [redacted]

Site Description closet hall of house

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling ~~Depth~~ Height 3' Orifice or Flow Controller # FC15

Canister # 20646

Name of Person Collecting Sample T. Slayle

				Can Pressure Gauge
Start Date	11/30/16	Start Time	1636	Initial 29"
Stop Date	12/1/16	Stop Time	1659	Final 6"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

map see p13

photo: 4571

* Atlas dup'd this location (started @ ~10am on 11/29

Team Leader (Initials) _____ Date 12/2/16

Station I.D. GM111 Sample I.D. GM111551116 Date. 11/29/16
<Station ID><media code><Date>

GPS Location —

Street Address (b) (6) [redacted]

Site Description in closet of home (shell)

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth 6" Orifice or Flow Controller # SGC2

Canister # 20819

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 11/29/16	Start Time 0943	Initial	25"
Stop Date 11/29/16	Stop Time 1009	Final	0"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

Follow up
project 16-0323
Logbook 1

He leak test
shroud: 90+ %
test: 4000 ppm

photo: 4539

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM111 Sample I.D. GM111IA1116 Date. 11/29/16
<Station ID><media code><Date >

GPS Location -

Street Address (b) (6) [redacted]

Site Description pg 16

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling ~~Depth~~ Height 3' Orifice or Flow Controller # FC16

Canister # 20990

Name of Person Collecting Sample T. Slagle

Can Pressure Gauge

Start Date 11/29/16 Start Time 1022 Initial -30"

Stop Date 11/30/16 Stop Time 1018 Final 7"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

See page 16

photo: 4540

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM114 Sample I.D. GM114SS1116 Date. 11/29/16
<Station ID><media code><Date>

GPS Location –

Street Address (b) (6) [redacted]

Site Description back room @ door; directly in tile

Type of sample: Ambient Air Sample Indoor Air Sample (Soil Gas Sample)

Sampling Depth 6" Orifice or Flow Controller # 4 SGC 3
12/29

Canister # 20644

Name of Person Collecting Sample T. Slayle

			Can Pressure Gauge
Start Date 11/29/16	Start Time 1020	Initial	28"
Stop Date 11/29/16	Stop Time 1050	Final	1"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

mp 16-0723 logbook 1

photo: 4541

He leak test
shroud: 90+ %
test: 0 ppm

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM114 Sample I.D. GM114IA1116 Date. 11/29/16
<Station ID><media code><Date >

GPS Location —

Street Address (b) (6) [redacted]

Site Description ~~b.~~ kitchen table, see map below

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling ~~Depth~~ Height 3' Orifice or Flow Controller # FC17

Canister # 4670

Name of Person Collecting Sample T. Slagle

		Can Pressure Gauge	
Start Date 11/29/16	Start Time 1104	Initial	28"
Stop Date 11/30/16	Stop Time 1109	Final	5"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

map in 16-0323 logbook 1

photo: 4542 4543

* Atlas (dup) split this sample

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM107 Sample I.D. GM107SS1116 Date. 11/29/16
<Station ID><media code><Date >

GPS Location —

Street Address [redacted]

Site Description closet end of hall

Type of sample: Ambient Air Sample Indoor Air Sample **Soil Gas Sample** (circled)

Sampling Depth 6" Orifice or Flow Controller # SGC 7

Canister # 20657

Name of Person Collecting Sample T. Slagle

		Can Pressure Gauge
Start Date 11/29/16	Start Time 1118	Initial 28" Hg
Stop Date 11/29/16	Stop Time 1149	Final 1" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

see my project 16-0323 logbook

He leak test
shroud: 90+ %
test: 100 ppm

photo: 4544

Split
GM107SS1116S
Start 1118 28" Hg
Stop 1149 1" Hg
FC = SGC 8
Can# = 20658

Team Leader (Initials) [initials] Date 12/2/16

Station I.D. GM107 Sample I.D. GM107IA1116 Date. 11/29/16
<Station ID><media code><Date >

GPS Location —

Street Address (b) (6) [redacted]

Site Description in hallway

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling ~~Depth~~ Height 3' Orifice or Flow Controller # FC 25

Canister # 3977

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 11/29/16	Start Time 1200	Initial	28"
Stop Date 11/30/16	Stop Time 1200	Final	5"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

See PJ. 19 location info

photo: 4545

Duplicate
GM107IA1116D
Stat = 1200 28" Hg
Stop = 1200 5"
FC = FC 24
Canister = 4340

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM110 Sample I.D. GM110 SS 1116 Date. 11/29/16
<Station ID><media code><Date>

GPS Location –

Street Address (b) (6) [redacted]

Site Description just inside back room on left

Type of sample: Ambient Air Sample Indoor Air Sample (Soil Gas Sample)

Sampling Depth 6" Orifice or Flow Controller # SGC 4

Canister # 2776

Name of Person Collecting Sample T. Slayle

			Can Pressure Gauge	
Start Date	11/29/16	Start Time	1342	Initial 30"
Stop Date	11/29/16	Stop Time	1415	Final 2.5"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

See map
16-0323
Logbook 1

photo: 4546

He Shroud test
shroud: 90+ %
test: 0 ppm

Team Leader (Initials) [redacted] Date 12/2/16

Station I.D. GM110 Sample I.D. GM110 IA 1116 Date. 11/29/16
<Station ID><media code><Date >

GPS Location —

Street Address (b) (6) [redacted]

Site Description living room

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling ~~Depth~~ Height 6' Orifice or Flow Controller # FC 18

Canister # 14675

Name of Person Collecting Sample T. Slagle

Can Pressure Gauge

Start Date 11/29/16 Start Time 1427 Initial 30"

Stop Date 11/30/16 Stop Time 1443 Final 4"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

location map
see § 21

photo: 4547

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM112 Sample I.D. GM112SS1116 Date. 11/29/16
<Station ID><media code><Date >

GPS Location

Street Address (b) (6) [redacted]

Site Description middle bedroom closet

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth 6" Orifice or Flow Controller # SGC 5

Canister # 20991

Name of Person Collecting Sample T. Skyle

Can Pressure Gauge

Start Date 11/29/16 Start Time 1412 Initial 28"

Stop Date 11/29/16 Stop Time 1443 Final 0"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

house rep in 16-0323 Lot code 1

photo: 4548

He test
shroud: 90+ %
test: 0 ppm

Team Leader (Initials) Date 12/2/16

Station I.D. GM11Z Sample I.D. GM11ZIA1116 Date. 11/29/16
<Station ID><media code><Date>

GPS Location —

Street Address (b) (6) [redacted]

Site Description front living room

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling Depth Weight 11/01 6 3' Orifice or Flow Controller # FC19

Canister # 4419

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date	11/29/16	Start Time 1453	Initial 29"
Stop Date	11/30/16	Stop Time 1455	Final 6"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

see pg. 23

photo: 4549

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM113 Sample I.D. GM113 55 1116 Date. 11/29/16
<Station ID><media code><Date>

GPS Location —

Street Address (b) (6) [redacted]

Site Description closet, end of hallway

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth 6" Orifice or Flow Controller # SGC 6

Canister # 4506

Name of Person Collecting Sample T. Sigle

Start Date 11/27/16 Start Time ~~1515~~ too light Initial 29"

Stop Date 11/27/16 Stop Time formation to pull any air 1547 Final 0"

Can Pressure Gauge

Notes: (other measurements)

ZP 11/29/16

Other Notes/Sketch (Include North and Scale)

my sec 16-0323 logbook 1

photo: ~~4950~~ 4550
ZP 11/29

We leak test
shroud: 90+ %
test: ~~too light formation~~ to pull air through long box used syringe to pull 0 ppm
ZP 11/27

Team Leader (Initials) [redacted] Date 12/2/16

Station I.D. GM121 Sample I.D. GM121SS1116 Date. 11/29/16
<Station ID><media code><Date >

GPS Location —

Street Address (b) (6) [redacted]

Site Description back right room, just inside door on left

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth 6" Orifice or Flow Controller # SGC9

Canister # 20982

Name of Person Collecting Sample T. Slagle

		Can Pressure Gauge	
Start Date 11/29/16	Start Time 1605	Initial	28.5"
Stop Date 11/29/16	Stop Time 1638	Final	1"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

sewer map
in 16-0323
logbook 1

photo: 4552

He leak test
shroud: 90%
test: 0 ppm

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM121 Sample I.D. GM121IA1116 Date. 11/29/16
<Station ID><media code><Date>

GPS Location —

Street Address (b) (6) [redacted]

Site Description living room

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling ~~Depth~~ Height 3' Orifice or Flow Controller # FC21

Canister # 4394

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 11/29/16	Start Time 1650	Initial	29"
Stop Date 11/30/16	Stop Time 1652	Final	5"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

see p) 26 location info

photo: 4553

* Atlas dup this. location

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM113 Sample I.D. GM113IA1116 Date. 11/29/16
<Station ID><media code><Date >

GPS Location —

Street Address (b) (6) [redacted]

Site Description living room, coffee table

Type of sample: Ambient Air Sample **Indoor Air Sample** (circled) Soil Gas Sample

Sampling ~~Depth~~ Height 3' Orifice or Flow Controller # FC20

Canister # 3938

Name of Person Collecting Sample T. Slagle

Can Pressure Gauge

Start Date 11/29/16 Start Time 1600 Initial 30"

Stop Date 11/30/16 Stop Time 1600 Final 5"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

location see page 25

photo: 4551

Atlas ~~50~~ ~~28~~ 11/29
dup. this location, they started early ~1515

Team Leader (Initials) [initials] Date 12/2/16

Station I.D. GM109 Sample I.D. GM109 SS 1116 Date. 11/29/16
<Station ID><media code><Date>

GPS Location —

Street Address (b) (6) [redacted]

Site Description back left room, just inside door threshold

Type of sample: Ambient Air Sample Indoor Air Sample ~~Soil Gas Sample~~

Sampling Depth 6" Orifice or Flow Controller # SGC10

Canister # 2771

Name of Person Collecting Sample T. Sigle

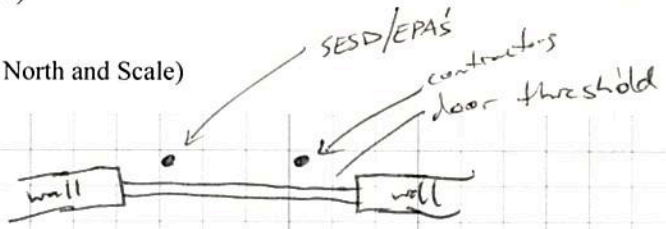
Can Pressure Gauge

Start Date 11/29/16 Start Time 1644 Initial 29"

Stop Date 11/29/16 Stop Time 1715 Final 0"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



map o- 16-0323
logbook 1

photo: 4554

He leak test
shroud: 88%
test: 100 ppm

* occupant smoking

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM109 Sample I.D. GM109 IA 1116 Date. 11/29/16
<Station ID><media code><Date >

GPS Location —

Street Address (b) (6) [redacted]

Site Description liv room, coffee table

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling ~~Depth~~ Height 3' Orifice or Flow Controller # FC22

Canister # 20651

Name of Person Collecting Sample T. Slagle

Can Pressure Gauge

Start Date 11/29/16 Start Time 1725 Initial 30" Hg

Stop Date 11/30/16 Stop Time 1727 Final 6"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

see pg 29
location info

photo: 4555

* occupant smoking

Team Leader (Initials) [illegible] Date 12/2/16

Station I.D. GM 119 Sample I.D. GM 119 SS 1116 Date. 11/30/16
<Station ID><media code><Date>

GPS Location -

Street Address (b) (6) [redacted]

Site Description in closet (grout corner in tile) at end of hall

Type of sample: Ambient Air Sample Indoor Air Sample (Soil Gas Sample)

Sampling Depth 6" Orifice or Flow Controller # SGC 11

Canister # 4081

Name of Person Collecting Sample T. Style

Can Pressure Gauge

Start Date 11/30/16 Start Time 0904 Initial 27"

Stop Date 11/30/16 Stop Time 0936 Final 0"

* this site is drilled temp' sample post everytime
Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

map in
16-0323
logbook 1

photo! 4557

He leak test
shroud: 90+%
test: 0 ppm

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM119 Sample I.D. GM119IA1116 Date. 11/30/16
<Station ID><media code><Date >

GPS Location —

Street Address (b) (6) [redacted]

Site Description at beginning of hallway

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling ~~Depth~~ Height 3' Orifice or Flow Controller # FC23

Canister # 6681

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 11/30/16	Start Time 1014	Initial	30"
Stop Date 12/1/16	Stop Time 1018	Final	5"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

see pg. 31
location info

photo: 4558

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM116 Sample I.D. GM116 SS 111C Date. 11/30/16
<Station ID><media code><Date>

GPS Location —

Street Address (b) (6) [redacted]

Site Description just inside left bedroom door, under carpet (temp port)

Type of sample: Ambient Air Sample Indoor Air Sample (Soil Gas Sample)

Sampling Depth 6" Orifice or Flow Controller # SGC 12

Canister # 5935

Name of Person Collecting Sample T. Slyle

			Can Pressure Gauge
Start Date 11/30/16	Start Time 0957	Initial	27" Hg
Stop Date 11/30/16	Stop Time 1026	Final	2"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

* hit rebar twice, 3rd hole successful

photo: 4560

He leak test
shroud: 85+ %
test: 0 ppm

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM116 Sample I.D. GM116IA1116 Date. 11/30/16
<Station ID><media code><Date>

GPS Location —

Street Address (b) (6) [redacted]

Site Description on bar top b/w kitchen & living room

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling ~~Depth~~ Height 4' Orifice or Flow Controller # FC26

Canister # 6678

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 11/30/16	Start Time 1057	Initial	30" Hg
Stop Date 12/1/16	Stop Time 1057	Final	5"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

see p) 33 for location info

photo: 4559

Team Leader (Initials) Date 12/2/16

Station I.D. GM108 Sample I.D. GM108 SS1116 Date. 11/30/16
<Station ID><media code><Date >

GPS Location _____

Street Address (b) (6) [redacted]

Site Description in closet at end of hall

Type of sample: Ambient Air Sample Indoor Air Sample (Soil Gas Sample)

Sampling Depth 6" Orifice or Flow Controller # SGC14

Canister # 471

Name of Person Collecting Sample T. Slayle

			Can Pressure Gauge
Start Date 11/30/16	Start Time 1038	Initial	29"
Stop Date 11/30/16	Stop Time 1125	Final	1"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

mp on 16-0323 lg book 1

photo: 4561

He test
shroud = 90+%
test = 0 ppm

Team Leader (Initials) _____ Date 12/2/16

Station I.D. GM08 Sample I.D. GM08IA1116 Date. 11/30/16
<Station ID><media code><Date>

GPS Location —

Street Address (b) (6) [redacted]

Site Description

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling ~~Depth~~ Height 3' Orifice or Flow Controller # FC 27

Canister # 03728

Name of Person Collecting Sample T. Sigle

Can Pressure Gauge

Start Date 11/30/16 Start Time 1137 Initial 29"

Stop Date 12/1/16 Stop Time 1137 Final 6"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

see pg 35 for location info

photo: 45642

2p 11/30

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM122 Sample I.D. GM122SS1116 Date. 11/30/16
<Station ID><media code><Date>

GPS Location —

Street Address (b) (6) [redacted]

Site Description In closet of back/right bedroom

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth 6" Orifice or Flow Controller # SGC15

Canister # 20980

Name of Person Collecting Sample T. Slyke

			Can Pressure Gauge
Start Date 11/30/16	Start Time 1141	Initial	27"
Stop Date 11/30/16	Stop Time 1221	Final	1"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

see map from 16-0323 logbook 1

He test
Shroud: 90+ %
test: 0 ppm

photo: 4563

Team Leader (Initials) [redacted] Date 12/2/16

Station I.D. GM122 Sample I.D. GM 122 IA 1116 Date. 11/30/16
<Station ID><media code><Date >

GPS Location —

Street Address (b) (6) [redacted]

Site Description in hallway b/w rooms

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling ~~Depth~~ Height 3' Orifice or Flow Controller # FC28

Canister # 20648

Name of Person Collecting Sample T. Slyle

			Can Pressure Gauge
Start Date 11/30/16	Start Time 1232	Initial	29"
Stop Date 12/1/16	Stop Time 1232	Final	7"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

* moved IA sample across hallway from May location b/c space heater is now in use

photo: 4564 old location
4565 new "

* Atlas dup'd this location

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM118 Sample I.D. GM118 SS1116 Date. 11/30/16
<Station ID><media code><Date>

GPS Location

Street Address (b) (6) [redacted]

Site Description in hallway closet

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth 6" Orifice or Flow Controller # SGC 16

Canister # 4560

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 11/30/16	Start Time 1352	Initial	28"
Stop Date 11/30/16	Stop Time 1433	Final	0"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

map in 16-0323
logbook 1

photo: 4566

He leak test
shroud: 90+ %
test: 3100 ppm

Team Leader (Initials) [redacted] Date 12/2/16

Station I.D. GM118 Sample I.D. GM118 IA 1116 Date. 11/30/16
<Station ID><media code><Date >

GPS Location —

Street Address (b) (6) [redacted]

Site Description corner b/w front living room and kitchen

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling ~~Depth~~ Height 3' Orifice or Flow Controller # FC29

Canister # 20986

Name of Person Collecting Sample T. Sigle

			Can Pressure Gauge
Start Date 11/30/16	Start Time 1445	Initial	29"
Stop Date 12/1/16	Stop Time 1446	Final	4"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

see pg 39 for location info

photo: 4567

Team Leader (Initials) [redacted] Date 12/2/16

Station I.D. GM117 Sample I.D. GM117SS1116 Date. 11/30/16
<Station ID><media code><Date>

GPS Location –

Street Address (b) (6) [redacted]

Site Description just inside threshold of back left bedroom

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth 6" Orifice or Flow Controller # SGC23

Canister # 5927

Name of Person Collecting Sample T. Sigle

			Can Pressure Gauge
Start Date 11/30/16	Start Time 1437	Initial	30"
Stop Date 11/30/16	Stop Time 1509	Final	2"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

map in 16-0323
logbook 1

He leak
shroud:
test:

Split
GM117SS1116S
start: 11/30/16 1437 30"
SGC21 can# 3910
stop: 11/30/16 1509 1"

photo: 4568

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM117 Sample I.D. GM117 IA 1116 Date. 11/30/16
<Station ID><media code><Date >

GPS Location —

Street Address (b) (6) [redacted]

Site Description kitchen table in middle of house

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling ~~Depth~~ Height 4' Orifice or Flow Controller # FC31

Canister # 20652

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 11/30/16	Start Time 1522	Initial	30"
Stop Date 12/1/16	Stop Time 1522	Final	5"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

see page 41 for location info

photo: 4569

dup
GM117IA1116D
can# 20649 FC34
11/30/16 1522 30"
12/1/16 1522 5"

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM120 Sample I.D. GM120551116 Date. 11/30/16
<Station ID><media code><Date>

GPS Location

Street Address (b) (6) [redacted]

Site Description under linoleum tile, threshold of back left room

Type of sample: Ambient Air Sample Indoor Air Sample (Soil Gas Sample)

Sampling Depth 6" Orifice or Flow Controller # SGC 17

Canister # 20973

Name of Person Collecting Sample T. Slagle

		Can Pressure Gauge	
Start Date 11/30/16	Start Time 1630	Initial	28"
Stop Date 11/30/16	Stop Time 1711	Final	1"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

map on 16-0323 (b) book 1

photo: 4572

He test leak
shroud: 90+ %
test: 0 ppm

Team Leader (Initials) [redacted] Date 12/2/16

Station I.D. GM120 Sample I.D. GM120IA1116 Date. 11/30/16
<Station ID><media code><Date>

GPS Location —

Street Address (b) (6) [redacted]

Site Description

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling ~~Depth~~ Height 3' Orifice or Flow Controller # FC32

Canister # 20975

Name of Person Collecting Sample T. Slayle

Can Pressure Gauge

Start Date 11/30/16 Start Time 1723 Initial 30" Hg

Stop Date 12/1/16 Stop Time 1721 Final 5"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

location info on pg 43

photo: 4573

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. GM123 Sample I.D. GM123551116 Date. 12/1/16
<Station ID><media code><Date>

GPS Location —

Street Address (b) (6) [redacted]

Site Description in closet at end of hallway

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth 6" Orifice or Flow Controller # SGC18

Canister # ~~29~~ 2773 (29 12/1)

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 12/1/16	Start Time 0838	Initial	29" Hg
Stop Date 12/1/16	Stop Time 0922	Final	0"

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

mcp in 16-0323 logbook 1

He leak test
shroud: 90+%
test: 0 ppm

photo: 4574

Team Leader (Initials) [redacted] Date 12/2/16

Station I.D. GM123 Sample I.D. GM123IA1116 Date. 12/1/16
<Station ID><media code><Date>

GPS Location —

Street Address (b) (6) [redacted]

Site Description on bar b/w living & dining room

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling ~~Depth~~ Height 4' Orifice or Flow Controller # FC36

Canister # 20656

Name of Person Collecting Sample T. Slagle

Can Pressure Gauge

Start Date 12/1/16 Start Time 0937 Initial 30" Hg

Stop Date 12/2/16 Stop Time 0937 Final 5" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

see page 45 for location info

photo: 4575

Team Leader (Initials) [signature] Date 12/2/16

Station I.D. _____ Sample I.D. _____ Date. _____
<Station ID><media code><Date >

GPS Location _____

Street Address _____

Site Description _____

_____

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth _____ Orifice or Flow Controller # _____

Canister # _____

Name of Person Collecting Sample _____

Can Pressure Gauge

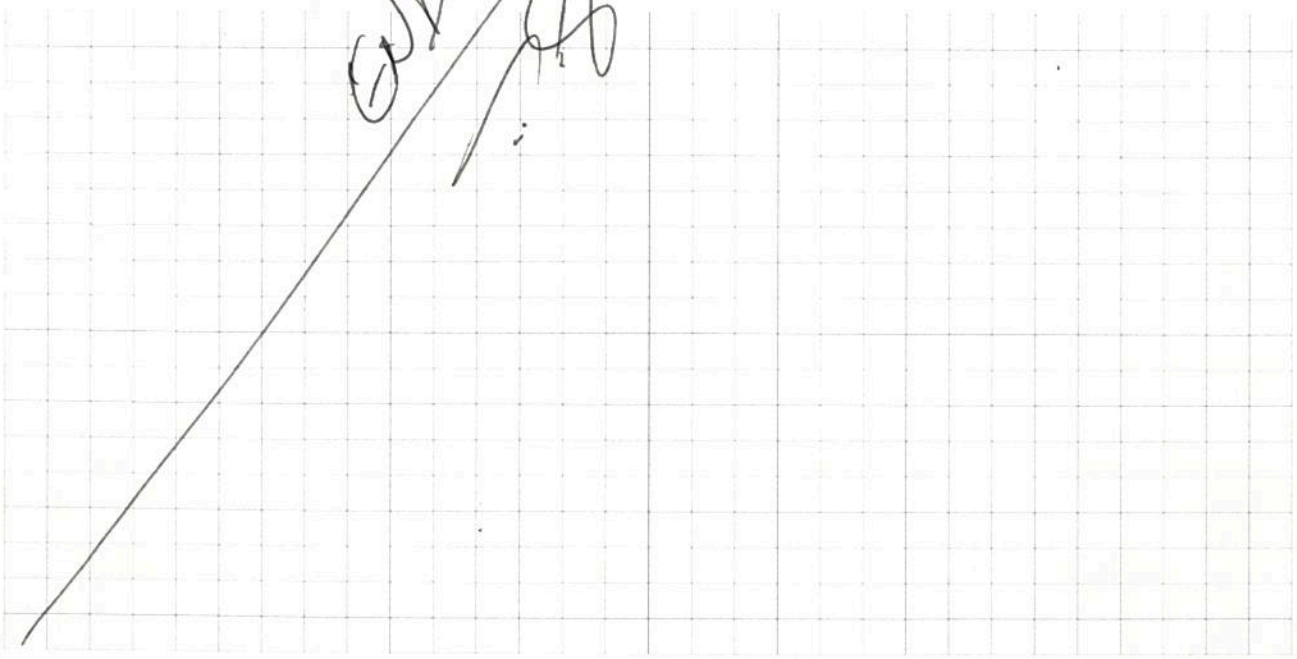
Start Date _____ Start Time _____ Initial _____

Stop Date _____ Stop Time _____ Final _____

_____

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



Team Leader (Initials) _____ Date 12/2/16

E165002

USEPA Region 4 COC (REGION COPY)
DateShipped: 12/2/2016
CarrierName: GOV Carrier
AirbillNo: n/a

CHAIN OF CUSTODY RECORD
Grenada Manufacturing
Project Number: 17-0050
Cooler #: n/a

No: 12/01/16-0001
Lab: Region 4 Lab
Lab Contact: Mike Beall
Lab Phone: 706-355-8856

	Sample Identifier	CLP Sample No.	Media/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
-05	GM01AA1116D		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM01	11/29/2016 07:44	Field Sample
-07	GM01AA21116D		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM01	11/30/2016 07:40	Field Sample
-09	GM01AA31116D		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM01	12/01/2016 07:45	Field Sample
-14	GM107IA1116D		Indoor Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM107	11/29/2016 12:00	Field Duplicate
-16	GM107SS1116S		Soil Gas/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM107	11/29/2016 11:18	Field Duplicate
-39	GM117IA1116D		Indoor Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM117	11/30/2016 15:22	Field Sample
-41	GM117SS1116S		Soil Gas/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM117	11/30/2016 14:37	Field Sample
-02	GMTBB1116		Trip Blank Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	#R4DART#	11/30/2016 07:40	Trip Blank
-03	GMTBC1116		Trip Blank Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	#R4DART#	12/01/2016 07:12	Trip Blank
-04	GM01AA1116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM01	11/29/2016 07:44	Field Sample

Special Instructions: Can #'s: GMTBA1116=20650, GMTBB1116=3590, GMTBC1116=3927, GM19AA1116=20834, GM19AA21116=20994, GM19AA31116=2782, GM18AA1116=3588, GM18AA21116=20970, GM18AA31116=20654, GM02AA1116=20987, GM02AA21116=20645, GM02AA31116=3931, GM01AA1116=20976, GM01AA21116=20978, GM01AA31116=20983, GM01AA1116D=14673, GM01AA21116D=20989, GM01AA31116D=20653, GM11AA1116=6687, GM11AA21116=2774, GM11AA31116=L4875, GM12AA1116=4152, GM12AA21116=2777, GM12AA31116=20981, GM13AA1116=4477, GM13AA21116=4083, GM13AA31116=20647, GM115SS1116=20977, GM115IA1116=20646, GM111SS1116=20819, GM111IA1116=20990, GM114SS1116=20644, GM114IA1116=4670, GM107SS1116=20657, GM107SS1116S=20658, GM107IA1116=3977, GM107IA1116D=4340, GM110SS1116=2776, GM110IA1116=14675, GM112SS1116=20991, GM112IA1116=4419, GM113SS1116=4506, GM113IA1116=3938, GM121SS1116=20982, GM121IA1116=4394, GM109SS1116=2771, GM109IA1116=20651, GM119SS1116=4081, GM119IA1116=6681, GM116SS1116=5935, GM116IA1116=6678, GM108SS1116=471, GM108IA1116=03728, GM122SS1116=20980, GM122IA1116=20648, GM118SS1116=4580, GM118IA1116=20986, GM117SS1116=5927, GM117SS1116S=3910, GM117IA1116=20652, GM117IA1116D=20649, GM120SS1116=20973, GM120IA1116=20975, GM123SS1116=2773, GM123IA1116=20656

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: VOA=(VOA) Volatile Organics

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
65	SESD	12/5/16 10:23	RMBeall EPA SESD ASB	12/6/16 1030	Good

E165002

USEPA Region 4 COC (REGION COPY)
DateShipped: 12/2/2016
CarrierName: GOV Carrier
AirbillNo: n/a

CHAIN OF CUSTODY RECORD
Grenada Manufacturing
Project Number: 17-0050
Cooler #: n/a

No: 12/01/16-0001
Lab: Region 4 Lab
Lab Contact: Mike Beall
Lab Phone: 706-355-8856

	Sample Identifier	CLP Sample No.	Media/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
-06	GM01AA21116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM01	11/30/2016 07:40	Field Sample
-08	GM01AA31116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM01	12/01/2016 07:45	Field Sample
-10	GM02AA1116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM02	11/29/2016 07:28	Field Sample
-11	GM02AA21116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM02	11/30/2016 07:28	Field Sample
-12	GM02AA31116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM02	12/01/2016 07:35	Field Sample
-13	GM107IA1116		Indoor Air/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM107	11/29/2016 12:00	Field Sample
-15	GM107SS1116		Soil Gas/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM107	11/29/2016 11:18	Field Sample
-17	GM108IA1116		Indoor Air/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM108	11/30/2016 11:37	Field Sample
-18	GM108SS1116		Soil Gas/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM108	11/30/2016 10:38	Field Sample
-19	GM109IA1116		Indoor Air/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM109	11/29/2016 17:25	Field Sample

Special Instructions: Can #'s: GMTBA1116=20650, GMTBB1116=3590, GMTBC1116=3927, GM19AA1116=20834, GM19AA21116=20994, GM19AA31116=2782, GM18AA1116=3588, GM18AA21116=20970, GM18AA31116=20654, GM02AA1116=20987, GM02AA21116=20645, GM02AA31116=3931, GM01AA1116=20976, GM01AA21116=20978, GM01AA31116=20983, GM01AA1116D=14673, GM01AA21116D=20989, GM01AA31116D=20653, GM11AA1116=6687, GM11AA21116=2774, GM11AA31116=L4875, GM12AA1116=4152, GM12AA21116=2777, GM12AA31116=20981, GM13AA1116=4477, GM13AA21116=4083, GM13AA31116=20647, GM115SS1116=20977, GM115IA1116=20646, GM111SS1116=20819, GM111IA1116=20990, GM114SS1116=20644, GM114IA1116=4670, GM107SS1116=20657, GM107SS1116S=20658, GM107IA1116=3977, GM107IA1116D=4340, GM110SS1116=2776, GM110IA1116=14675, GM112SS1116=20991, GM112IA1116=4419, GM113SS1116=4506, GM113IA1116=3938, GM121SS1116=20982, GM121IA1116=4394, GM109SS1116=2771, GM109IA1116=20651, GM119SS1116=4081, GM119IA1116=6681, GM116SS1116=5935, GM116IA1116=6678, GM108SS1116=471, GM108IA1116=3728, GM122SS1116=20980, GM122IA1116=20648, GM118SS1116=4560, GM118IA1116=20986, GM117SS1116=5927, GM117SS1116S=3910, GM117IA1116=20652, GM117IA1116D=20649, GM120SS1116=20973, GM120IA1116=20975, GM123SS1116=2773, GM123IA1116=20656

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: VOA=(VOA) Volatile Organics

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
65	SESD	12/5/16 10:23	EPA SESD ASB	12/5/16 1030	Good

RMBeall

E165002

USEPA Region 4 COC (REGION COPY)
DateShipped: 12/2/2016
CarrierName: GOV Carrier
AirbillNo: n/a

CHAIN OF CUSTODY RECORD
Grenada Manufacturing
Project Number: 17-0050
Cooler #: n/a

No: 12/01/16-0001
Lab: Region 4 Lab
Lab Contact: Mike Beall
Lab Phone: 706-355-8856

	Sample Identifier	CLP Sample No.	Media/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
-20	GM109SS1116		Soil Gas/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM109	11/29/2016 16:44	Field Sample
-24	GM110IA1116		Indoor Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM110	11/29/2016 14:27	Field Sample
-25	GM110SS1116		Soil Gas/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM110	11/29/2016 13:42	Field Sample
-26	GM111IA1116		Indoor Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM111	11/29/2016 10:22	Field Sample
-27	GM111SS1116		Soil Gas/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM111	11/29/2016 09:43	Field Sample
-28	GM112IA1116		Indoor Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM112	11/29/2016 14:53	Field Sample
-29	GM112SS1116		Soil Gas/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM112	11/29/2016 14:12	Field Sample
-30	GM113IA1116		Indoor Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM113	11/29/2016 16:00	Field Sample
-31	GM113SS1116		Soil Gas/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM113	11/29/2016 15:15	Field Sample
-32	GM114IA1116		Indoor Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM114	11/29/2016 11:04	Field Sample

Special Instructions: Can #'s: GMTBA1116=20650, GMTBB1116=3590, GMTBC1116=3927, GM19AA1116=20834, GM19AA21116=20994, GM19AA31116=2782, GM18AA1116=3588, GM18AA21116=20970, GM18AA31116=20654, GM02AA1116=20987, GM02AA21116=20645, GM02AA31116=3931, GM01AA1116=20976, GM01AA21116=20978, GM01AA31116=20983, GM01AA1116D=14673, GM01AA21116D=20989, GM01AA31116D=20653, GM11AA1116=6687, GM11AA21116=2774, GM11AA31116=L4875, GM12AA1116=4152, GM12AA21116=2777, GM12AA31116=20981, GM13AA1116=4477, GM13AA21116=4083, GM13AA31116=20647, GM115SS1116=20977, GM115IA1116=20646, GM111SS1116=20819, GM111IA1116=20990, GM114SS1116=20644, GM114IA1116=4670, GM107SS1116=20657, GM107SS1116S=20658, GM107IA1116=3977, GM107IA1116D=4340, GM110SS1116=2776, GM110IA1116=14675, GM112SS1116=20991, GM112IA1116=4419, GM113SS1116=4506, GM113IA1116=3938, GM121SS1116=20982, GM121IA1116=4394, GM109SS1116=2771, GM109IA1116=20651, GM119SS1116=4081, GM119IA1116=6681, GM116SS1116=5935, GM116IA1116=6678, GM108SS1116=471, GM108IA1116=03728, GM122SS1116=20980, GM122IA1116=20648, GM118SS1116=4560, GM118IA1116=20986, GM117SS1116=5927, GM117SS1116S=3910, GM117IA1116=20652, GM117IA1116D=20649, GM120SS1116=20973, GM120IA1116=20975, GM123SS1116=2773, GM123IA1116=20656

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: VOA=(VOA) Volatile Organics

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
65	SESD	12/5/16 10:23	RMBeall EPA SESD ASB	12/5/16 1030	Good

E165002

USEPA Region 4 COC (REGION COPY)
DateShipped: 12/2/2016
CarrierName: GOV Carrier
AirbillNo: n/a

CHAIN OF CUSTODY RECORD
Grenada Manufacturing
Project Number: 17-0050
Cooler #: n/a

No: 12/01/16-0001
Lab: Region 4 Lab
Lab Contact: Mike Beall
Lab Phone: 706-355-8856

	Sample Identifier	CLP Sample No.	Media/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
-33	GM114SS1116		Soil Gas/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM114	11/29/2016 10:20	Field Sample
-34	GM115IA1116		Indoor Air/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM115	11/30/2016 16:36	Field Sample
-35	GM115SS1116		Soil Gas/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM115	11/30/2016 15:49	Field Sample
-36	GM116IA1116		Indoor Air/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM116	11/30/2016 10:57	Field Sample
-37	GM116SS1116		Soil Gas/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM116	11/30/2016 09:57	Field Sample
-38	GM117IA1116		Indoor Air/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM117	11/30/2016 15:22	Field Sample
-40	GM117SS1116		Soil Gas/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM117	11/30/2016 14:37	Field Sample
-42	GM118IA1116		Indoor Air/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM118	11/30/2016 14:45	Field Sample
-43	GM118SS1116		Soil Gas/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM118	11/30/2016 13:52	Field Sample
-44	GM119IA1116		Indoor Air/ Slagle, Tim	Comp.	VOA	A (None) (1)	GM119	11/30/2016 10:14	Field Sample

Special Instructions: Can #'s: GMTBA1116=20650, GMTBB1116=3590, GMTBC1116=3927, GM19AA1116=20834, GM19AA21116=20994, GM19AA31116=2782, GM18AA1116=3588, GM18AA21116=20970, GM18AA31116=20654, GM02AA1116=20987, GM02AA21116=20645, GM02AA31116=3931, GM01AA1116=20976, GM01AA21116=20978, GM01AA31116=20983, GM01AA1116D=14673, GM01AA21116D=20989, GM01AA31116D=20653, GM11AA1116=6687, GM11AA21116=2774, GM11AA31116=L4875, GM12AA1116=4152, GM12AA21116=2777, GM12AA31116=20981, GM13AA1116=4477, GM13AA21116=4083, GM13AA31116=20647, GM115SS1116=20977, GM115IA1116=20646, GM111SS1116=20819, GM111IA1116=20990, GM114SS1116=20644, GM114IA1116=4670, GM107SS1116=20657, GM107SS1116S=20658, GM107IA1116=3977, GM107IA1116D=4340, GM110SS1116=2776, GM110IA1116=14675, GM112SS1116=20991, GM112IA1116=4419, GM113SS1116=4506, GM113IA1116=3938, GM121SS1116=20982, GM121IA1116=4394, GM109SS1116=2771, GM109IA1116=20651, GM119SS1116=4081, GM119IA1116=6681, GM116SS1116=5935, GM116IA1116=6678, GM108SS1116=471, GM108IA1116=03728, GM122SS1116=20980, GM122IA1116=20648, GM118SS1116=4560, GM118IA1116=20986, GM117SS1116=5927, GM117SS1116S=3910, GM117IA1116=20652, GM117IA1116D=20649, GM120SS1116=20973, GM120IA1116=20975, GM123SS1116=2773, GM123IA1116=20656

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: VOA=(VOA) Volatile Organics

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
65	T. Shu SESD	12/5/16 10:23	RMBeall EPA SESD ASB	12/5/16 1030	

E165002

USEPA Region 4 COC (REGION COPY)
DateShipped: 12/2/2016
CarrierName: GOV Carrier
AirbillNo: n/a

CHAIN OF CUSTODY RECORD
Grenada Manufacturing
Project Number: 17-0050
Cooler #: n/a

No: 12/01/16-0001
Lab: Region 4 Lab
Lab Contact: Mike Beall
Lab Phone: 706-355-8856

	Sample Identifier	CLP Sample No.	Media/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
-45	GM119SS1116		Soil Gas/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM119	11/30/2016 09:04	Field Sample
-21	GM11AA1116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM11	11/29/2016 07:50	Field Sample
-22	GM11AA21116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM11	11/30/2016 07:51	Field Sample
-23	GM11AA31116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM11	12/01/2016 07:54	Field Sample
-49	GM120IA1116		Indoor Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM120	11/30/2016 17:23	Field Sample
-50	GM120SS1116		Soil Gas/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM120	11/30/2016 16:30	Field Sample
-51	GM121IA1116		Indoor Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM121	11/29/2016 16:50	Field Sample
-52	GM121SS1116		Soil Gas/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM121	11/29/2016 16:05	Field Sample
-53	GM122IA1116		Indoor Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM122	11/30/2016 12:32	Field Sample
-54	GM122SS1116		Soil Gas/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM122	11/30/2016 11:41	Field Sample

Special Instructions: Can #'s: GMTBA1116=20650, GMTBB1116=3590, GMTBC1116=3927, GM19AA1116=20834, GM19AA21116=20994, GM19AA31116=2782, GM18AA1116=3588, GM18AA21116=20970, GM18AA31116=20654, GM02AA1116=20987, GM02AA21116=20645, GM02AA31116=3931, GM01AA1116=20976, GM01AA21116=20978, GM01AA31116=20983, GM01AA1116D=14673, GM01AA21116D=20989, GM01AA31116D=20653, GM11AA1116=6687, GM11AA21116=2774, GM11AA31116=14875, GM12AA1116=4152, GM12AA21116=2777, GM12AA31116=20981, GM13AA1116=4477, GM13AA21116=4083, GM13AA31116=20647, GM115SS1116=20977, GM115IA1116=20646, GM111SS1116=20819, GM111IA1116=20990, GM114SS1116=20644, GM114IA1116=4670, GM107SS1116=20657, GM107SS1116S=20658, GM107IA1116=3977, GM107IA1116D=4340, GM110SS1116=2776, GM110IA1116=14675, GM112SS1116=20991, GM112IA1116=4419, GM113SS1116=4506, GM113IA1116=3938, GM121SS1116=20982, GM121IA1116=4394, GM109SS1116=2771, GM109IA1116=20651, GM119SS1116=4081, GM119IA1116=6681, GM116SS1116=5935, GM116IA1116=6678, GM108SS1116=471, GM108IA1116=03728, GM122SS1116=20980, GM122IA1116=20648, GM118SS1116=4560, GM118IA1116=20986, GM117SS1116=5927, GM117SS1116S=3910, GM117IA1116=20652, GM117IA1116D=20649, GM120SS1116=20973, GM120IA1116=20975, GM123SS1116=2773, GM123IA1116=20656

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: VOA=(VOA) Volatile Organics

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
65	T. Slagle SESD	12/5/16 10:23	RMBeall EPA SESD ASB	12/5/16 1030	Good

E165002

USEPA Region 4 COC (REGION COPY)
DateShipped: 12/2/2016
CarrierName: GOV Carrier
AirbillNo: n/a

CHAIN OF CUSTODY RECORD
Grenada Manufacturing
Project Number: 17-0050
Cooler #: n/a

No: 12/01/16-0001
Lab: Region 4 Lab
Lab Contact: Mike Beall
Lab Phone: 706-355-8856

	Sample Identifier	CLP Sample No.	Media/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
-55	GM123IA1116		Indoor Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM123	12/01/2016 09:37	Field Sample
-56	GM123SS1116		Soil Gas/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM123	12/01/2016 08:38	Field Sample
-46	GM12AA1116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM12	11/29/2016 08:00	Field Sample
-47	GM12AA21116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM12	11/30/2016 08:05	Field Sample
-48	GM12AA31116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM12	12/01/2016 08:00	Field Sample
-57	GM13AA1116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM13	11/29/2016 08:08	Field Sample
-58	GM13AA21116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM13	11/30/2016 08:15	Field Sample
-59	GM13AA31116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM13	12/01/2016 08:10	Field Sample
-60	GM18AA1116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM18	11/29/2016 07:21	Field Sample
-61	GM18AA21116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM18	11/30/2016 07:20	Field Sample

Special Instructions: Can #'s: GMTBA1116=20650, GMTBB1116=3590, GMTBC1116=3927, GM19AA1116=20834, GM19AA21116=20994, GM19AA31116=2782, GM18AA1116=3588, GM18AA21116=20970, GM18AA31116=20654, GM02AA1116=20987, GM02AA21116=20645, GM02AA31116=3931, GM01AA1116=20976, GM01AA21116=20978, GM01AA31116=20983, GM01AA1116D=14673, GM01AA21116D=20989, GM01AA31116D=20653, GM11AA1116=6687, GM11AA21116=2774, GM11AA31116=L4875, GM12AA1116=4152, GM12AA21116=2777, GM12AA31116=20981, GM13AA1116=4477, GM13AA21116=4083, GM13AA31116=20647, GM115SS1116=20977, GM115IA1116=20646, GM111SS1116=20819, GM111IA1116=20990, GM114SS1116=20644, GM114IA1116=4670, GM107SS1116=20657, GM107SS1116S=20658, GM107IA1116=3977, GM107IA1116D=4340, GM110SS1116=2776, GM110IA1116=14675, GM112SS1116=20991, GM112IA1116=4419, GM113SS1116=4506, GM113IA1116=3938, GM121SS1116=20982, GM121IA1116=4394, GM109SS1116=2771, GM109IA1116=20651, GM119SS1116=4081, GM119IA1116=6681, GM116SS1116=5935, GM116IA1116=6678, GM108SS1116=471, GM108IA1116=03728, GM122SS1116=20980, GM122IA1116=20648, GM118SS1116=4560, GM118IA1116=20986, GM117SS1116=5927, GM117SS1116S=3910, GM117IA1116=20652, GM117IA1116D=20649, GM120SS1116=20973, GM120IA1116=20975, GM123SS1116=2773, GM123IA1116=20656

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: VOA=(VOA) Volatile Organics

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
65	[signature] SESD	12/5/16 10:23	RMBeall EPA SESD ASB	12/5/16 1030	Good

E165002

USEPA Region 4 COC (REGION COPY)
DateShipped: 12/2/2016
CarrierName: GOV Carrier
AirbillNo: n/a

CHAIN OF CUSTODY RECORD
Grenada Manufacturing
Project Number: 17-0050
Cooler #: n/a

No: 12/01/16-0001
Lab: Region 4 Lab
Lab Contact: Mike Beall
Lab Phone: 706-355-8856

	Sample Identifier	CLP Sample No.	Media/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
-62	GM18AA31116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM18	12/01/2016 07:25	Field Sample
-63	GM19AA1116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM19	11/29/2016 07:12	Field Sample
-64	GM19AA21116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM19	11/30/2016 07:14	Field Sample
-65	GM19AA31116		Ambient Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	GM19	12/01/2016 07:13	Field Sample
-01	GMTBA1116		Trip Blank Air/ Slagle, Tim	Comp.	VOA	A (None) (1) ✓	#R4DART#	11/29/2016 07:10	Trip Blank

Special Instructions: Can #'s: GMTBA1116=20650, GMTBB1116=3590, GMTBC1116=3927, GM19AA1116=20834, GM19AA21116=20994, GM19AA31116=2782, GM18AA1116=3588, GM18AA21116=20970, GM18AA31116=20654, GM02AA1116=20987, GM02AA21116=20645, GM02AA31116=3931, GM01AA1116=20976, GM01AA21116=20978, GM01AA31116=20983, GM01AA1116D=14673, GM01AA21116D=20989, GM01AA31116D=20653, GM11AA1116=6687, GM11AA21116=2774, GM11AA31116=L4875, GM12AA1116=4152, GM12AA21116=2777, GM12AA31116=20981, GM13AA1116=4477, GM13AA21116=4083, GM13AA31116=20647, GM115SS1116=20977, GM115IA1116=20646, GM111SS1116=20819, GM111IA1116=20990, GM114SS1116=20644, GM114IA1116=4670, GM107SS1116=20657, GM107SS1116S=20658, GM107IA1116=3977, GM107IA1116D=4340, GM110SS1116=2776, GM110IA1116=14675, GM112SS1116=20991, GM112IA1116=4419, GM113SS1116=4506, GM113IA1116=3938, GM121SS1116=20982, GM121IA1116=4394, GM109SS1116=2771, GM109IA1116=20651, GM119SS1116=4081, GM119IA1116=6681, GM116SS1116=5935, GM116IA1116=6678, GM108SS1116=471, GM108IA1116=03728, GM122SS1116=20980, GM122IA1116=20648, GM118SS1116=4560, GM118IA1116=20986, GM117SS1116=5927, GM117SS1116S=3910, GM117IA1116=20652, GM117IA1116D=20649, GM120SS1116=20973, GM120IA1116=20975, GM123SS1116=2773, GM123IA1116=20656

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: VOA=(VOA) Volatile Organics

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
65	[signature] SESD	12/5/16 10:23	RMBeall EPA SESD ASB	12/6/16 1030	Good

End of Report