PRIVILEGED AND CONFIDENTIAL
PREPARED AT REQUEST OF COUNSEL

INDOOR AIR QUALITY ASSESSMENT
RITE AID DISTRIBUTION FACILITY
1776 STATESVILLE AVENUE
CHARLOTTE, NORTH CAROLINA

Prepared For:

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AMEC Project No. 773670002

EXECUTIVE SUMMARY

At the request of Ms. Jill Hyman Kaplan, Esquire (Manko, Gold, Katcher, & Fox, LLP), AMEC Earth & Environmental, Inc. (AMEC) performed an indoor air quality (IAQ) and outdoor air quality (OAQ) assessment at the Rite Aid Distribution Facility (Site) located at 1776 Statesville Avenue in Charlotte, North Carolina. According to documentation provided by the client, during the late 1950's, the Site was operated by Douglas Aircraft on behalf of the US Defense Department. Operations were for the assembly of the NIKE missiles. During Douglas Aircraft's duration at the Site, multiple degreasing and electroplating operations occurred. As a result of the degreasing operations, a release of chlorinated volatile organic compounds (VOCs) occurred at the Site. Subsurface assessment activities have indicated that several areas of the Site have constituents of potential concern (COPCs) present in the groundwater and the soil. The groundwater is believed to have three vertical components: a shallow zone, intermediate zone, and a deep zone. Due to the volatility of the chlorinated VOCs in the shallow groundwater zone, there is potential for IAQ impacts in the buildings at the Site.

In January 2008, Hoffman Engineering, Inc. (HEI), of North Kingstown, Rhode Island, was contracted to perform an indoor air quality assessment at the Site. HEI collected five IAQ samples from three different Rite Aid buildings and two OAQ samples over a 24-hour sampling period. Results of the HEI IAQ report indicated that refrigerants, laboratory contaminants, common industrial chemical compounds, gasoline-related compounds, creosote compounds, and chlorinated solvents were detected.

On September 11, 2008, AMEC collected nine IAQ samples, two OAQ samples, and one field blank at the Site. All samples were collected over a 10-hour work day sampling period. The assessment was performed to determine how the indoor air quality in September 2008 compared to the observed indoor air quality in January 2008 and to determine if the COPCs present in the shallow groundwater zone are affecting the IAQ of the Rite Aid buildings. The findings of AMEC's assessment are summarized below:

- Indoor air concentrations of COPCs were compared to concentrations reported in January 2008. Several substances detected in January 2008 were not detected at all in September 2008, including n-hexane, n-heptane, n-octane, n-nonane, 1,2,4-trimethyl benzene, 1,4-dichlorobenzene, and n-butyl-acetate. Almost all detected substances were detected at levels lower than those measured in January 2008. Substances detected at lower levels in September include acetone, benzene, toluene, m,p-xylenes, o-xylenes, trichloroethylene (TCE), tetrachloroethylene (PCE), naphthalene, dichlorodifluoromethane, trichlorofluoromethane, ethyl acetate, 2-butanone, 2-hexanone, 2-propanol, d-limonene, and alpha pinene. Specifically, trichloroethylene (TCE) was measured from nondetect to 13 ug/m^3 in January and nondetect to 4.3 ug/m^3 in September. Tetrachloroethylene (PCE) was measured from nondetect to 280 ug/m^3 in January and nondetect to 0.9 ug/m^3 in September.

- Risk assessment calculations were performed separately for indoor air quality data collected in January 2008 and September 2008, and for the average of the two data sets, which represents average exposure conditions over the year.

- Noncarcinogenic risks for Rite Aid workers ranged from a Hazard Index of 2.0 in Building 48 to 20 in Buildings 1 and 2 in January 2008. In September 2008, the noncarcinogenic risk ranged from a Hazard Index of 3.0 in Building 48 to 20 in Buildings 1 and 2. On average, the noncarcinogenic risk ranged from a Hazard Index of 2 in Building 48 to 20 in Buildings 1 and 2. The calculated noncarcinogenic risks were due to the detection of acrolein in indoor air samples. However, acrolein is a ubiquitous contaminant of indoor and outdoor air due to its presence in combustion emissions of all sorts, including cigarette smoke, vehicle emissions, power plant emissions, and emissions from home heating and cooking sources. Accordingly, the acrolein is not a site-related constituent. With acrolein excluded, noncarcinogenic risks for Rite Aid workers ranged from a Hazard Index of 0.09 in Building 48 to 0.5 in Building 2 in January 2008, from a Hazard Index of 0.01 in Building 48 to 0.2 in Building 2 in September 2008, and from a Hazard Index of 0.05 in Building 48 to 0.4 in Building 2 when data were averaged from both sampling events. A Hazard Index of 1.0 or less is considered acceptable by most regulatory agencies.

- Carcinogenic risks for Rite Aid workers ranged from an Excess Lifetime Cancer Risk of $4x10^{-6}$ in Building 1 to $3x10^{-5}$ in Building 48 based on the January 2008 data. Carcinogenic risks for Rite Aid workers ranged from an Excess Lifetime Cancer Risk of $1x10^{-7}$ in Building 48 to $1x10^{-6}$ in Building 1 based on the September 2008 data. On average, the carcinogenic risks ranged from $3x10^{-6}$ in Building 1 to $1x10^{-5}$ in Building 48.

- The calculated carcinogenic risks are due to the detection of tetrachloroethylene in one sample in Building 48 in January of 2008. In September of 2008, no tetrachloroethylene was detected in Building 48. Accordingly, the result from the January sampling may have been a sampling or laboratory artifact. When the data from both sampling events are averaged to better estimate long term exposures, the Excess Lifetime Cancer Risk is calculated to be $1x10^{-5}$ for workers in Building 48. Thus, even if it is assumed that the detection in January was a true representation of the tetrachloroethylene in the indoor air of Building 48 in January, the exposure level over the course of the year falls within the EPA's acceptable risk range of $1x10^{-6}$, or 1/1,000,000 to $1x10^{-4}$, or 1/10,000.

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1.0 INTRODUCTION

At the request of Ms. Jill Hyman Kaplan, Esquire (Manko, Gold, Katcher, & Fox, LLP), AMEC Earth & Environmental, Inc. (AMEC) performed an indoor air quality (IAQ) and outdoor air quality (OAQ) assessment at the Rite Aid Distribution Facility (Site) located at 1776 Statesville Avenue in Charlotte, North Carolina. During the late 1950's, Douglas Aircraft operated degreasing and electroplating operations at the Site on behalf of the US Defense Department. During operations, a release of chlorinated volatile organic compounds occurred at the Site. Subsurface assessment activities have indicated that several areas of the Site have constituents of potential concern (COPCs) present in the groundwater and the soil. The groundwater is believed to have three vertical components: a shallow zone, intermediate zone, and a deep zone. Due to the volatility of the chlorinated VOCs in the shallow groundwater zone, there is potential for IAQ impacts in the buildings at the Site.

In January 2008, Hoffman Engineering, Inc. (HEI), of North Kingstown, Rhode Island, collected five IAQ samples from three different Rite Aid buildings and two outdoor air quality samples (OAQ) over a 24-hour sampling period. Results of the HEI IAQ report indicated that refrigerants, laboratory contaminants, common industrial chemical compounds, gasoline-related compounds, creosote compounds, and chlorinated solvents were detected. In addition, chromic acid sampling was performed in Buildings 1 and 2 using Dragger Tubes because this constituent had been used in plating operations that occurred historically in these buildings. No chromic acid was detected in any of the eighteen IAQ samples collected.

On September 11, 2008, AMEC collected nine IAQ samples (Samples 1 through 5 and 8 through 10), two OAQ samples (Samples 6 and 7), and one field blank (Sample 11) at the Site to update the available information on indoor air quality at the Site. Air samples were collected in 6-Liter Summa® canisters and analyzed by EPA Method TO-15. All samples were collected over a 10-hour sampling period. This assessment was performed to determine if the COPCs present in the shallow groundwater zone are affecting the IAQ of the Rite Aid buildings. Potential sources of IAQ contaminants were determined by reviewing data from the HEI IAQ report and by making visual observations at the Site. AMEC has prepared the following IAQ Assessment Report, summarizing the recent indoor and outdoor air quality sampling activities and performing risk assessment calculations based on all of the air quality data.

2.0 SCOPE OF WORK

The purpose of the collection of indoor air quality samples was to determine how the indoor air quality in September 2008 compared to the observed indoor air quality in January 2008 (Hoffman Engineering, Inc., 2008) and to determine if gaseous substances volatilizing from the impacted shallow groundwater could affect indoor air quality at the Rite Aid Distribution facility.

The scope of work proposed the collection of indoor air samples from the following locations:

Sample 1	Building 1 - former stripping pit area;
Sample 2	Building 1 - central portion of the main plating pit;
Sample 3	Building 2 - 20 feet inside at loading dock 21;
Sample 4	Building 2 - northerly quadrant of former plating pit area;
Sample 5	Building 48 - former paint storage room;
Sample 6	Outside sample adjacent to Building 50;
Sample 7	Outside sample adjacent to Building 1;
Sample 8	Building 1 - adjacent to former stripping pit area;
Sample 9	Building 2 - adjacent to former plating pit; and
Sample 10	Building 48 in area of maximum worker exposure.

As part of the Scope of Work, AMEC collected a total of ten (10) samples, along with one field blank sample. Sampling was performed using stainless 6-Liter Summa® canisters that were supplied by Columbia Analytical Services (CAS) in Simi Valley, California and were batch cleaned and certified prior to use. The samples were collected during work-day time schedules, which were 8-10 hours in duration. Sampling conditions remained "normal" for summer-time operating conditions. Summa® canisters were placed so that the intake orifice was at approximately three to five feet above the floor surface and in the breathing zone.

3.0 FIELD ACTIVITIES

3.1 Preliminary Site Visit

On September 10, 2008, AMEC conducted a "walk-through" of the Site to determine the appropriate locations of both indoor and outdoor samples. It was determined that in Building 1, three canisters would be placed in locations that would be representative of worker exposure adjacent to the former plating and stripping pits. Sample locations in Building 2 were determined based on both worker exposure and to allow continued operation of the loading docks. Sample locations in Building 48 were determined by evaluating the airflow through the building. On the west side of the building, numerous windows and bay doors are present, along with hurricane fans, which create a west to east airflow through the building. AMEC staff evaluated the wind flow and direction prior to placing the two outdoor canisters adjacent to Building 50 and Building 1. These locations were determined to be "upwind" and are considered to be representative of contaminants entering the property.

Six of the sampling locations (Samples 1 through 6) mirrored those areas selected by HEI (2008) in the January 2008 investigation. The locations were selected to represent the varying conditions in and around Buildings 1, 2, and 48.

3.2 Sample Collection Methods

The Air Quality (AQ) samples were collected in accordance with the "Compendium Method TO-15 Determination of Volatile Organic Compounds in Air Collected in Specially Prepared Canisters and Analyzing by Gas Chromatography/Mass Spectrometry (GC/MS)."

The Volatile Organic Compounds (VOCs) samples were collected in pre-evacuated stainless steel canisters with air volumes of 6-Liters each. Prior to sampling, each canister was labeled and recorded according to sample location and regulator used. Flow regulators attached to each canister were pre-set to fill the canisters with air over a period of 10-hours. Columbia Analytical Services (CAS) in Simi Valley, California analyzed the AQ samples. CAS is a full-service industrial hygiene laboratory accredited by the American Industrial Hygiene Association (AIHA).

4.0 QUALITY ASSURANCE AND QUALITY CONTROL MEASURES

To obtain data that are defensible and reproducible, quality assurance and quality control measures were utilized during the sampling event. Individual intake orifices were utilized for collection of samples. Field personnel donned gloves when collecting samples and/or handling sample fittings and flow regulators.

At each sample location, a Summa® canister was used to collect the air sample. The fittings and flow regulators used to fill the canisters were dedicated to the sample and were not reused between samples. CAS supplied the Summa® canisters and fittings. This equipment was decontaminated by the laboratory prior to use at the Site. The laboratory tests each canister and fitting to confirm that the equipment has been properly decontaminated prior to use, and that fittings and regulators are intact, without leaks. The laboratory maintains laboratory data confirming that the sampling equipment utilized was properly decontaminated in accordance with EPA protocol. The laboratory also certified that the flow regulators were calibrated to a flow rate of less than 180 milliliters per minute, as required to collect the samples.

To confirm the integrity of the canisters, the laboratory performed a helium integrity test on each canister once the samples were purged from the units. Their results are documented in the letter in Appendix A and showed that the summa canisters used for the sampling event were of sound integrity. In addition, to verify that leaks did not occur during transport, AMEC personnel measured and recorded the Summa® canister pressures post-sample collection.

5.0 ANALYTICAL RESULTS

5.1 Volatile Organic Compounds (VOCs)

VOC samples were collected from eight indoor locations and two outdoor locations and analyzed in accordance with USEPA Method TO-15.

5.2 VOC Results

Laboratory analytical data from the VOC samples indicate that the analytes detected were present in low concentrations at all of the locations sampled (Samples 1 through 11). Twenty-three COPCs were detected. Table 1 lists VOC analytes. A designation of Non-detect (ND) indicates that the concentrations present, if any, were below the detection limit of the analytical instrument. Laboratory reports are included in Appendix B. The findings of AMEC's assessment are summarized below:

- The analytical results indicated that several COPC were present in all of the indoor and outdoor samples. Dichlorofluoromethane (CFC 12) and trichlorofluoromethane, which are common refrigerants, were detected, as was acetone, 2-butanone (MEK), and toluene, which are common industrial chemicals. Dichlorodifluoromethane and trichlorofluoromethane were detected in background and indoor air samples at virtually identical concentrations. Acetone, 2-butanone, and toluene were detected in background and indoor air samples at very similar concentrations.

- The analytical results indicated that several gasoline-related constituents were detected. Benzene was present in samples collected from Building 1 and the outdoor sample collected adjacent to Building 50; toluene was present in samples from Buildings 1, 2 and 48 and both outdoor samples; and xylenes and ethylbenzene were present in samples collected from Building 1.

- The analytical results for chlorinated VOCs indicated that trichloroethene (TCE) was present in samples collected from two of three locations in Building 1, and tetrachloroethene (PCE) was present in samples collected from two of three locations in Building 1 and one of three locations in Building 2.

- The analytical results indicated that naphthalene was present in samples collected from all three locations in Building 2. These results can be attributed to the floor being constructed of creosote-coated wood blocks.

- The analytical results indicated that ethyl acetate, d-limonene, 2-butanone, and alpha-pinene were present in both indoor and outdoor samples. These COPCs are common constituents in degreasing solvents, electroplating operations, paints, cleaners and other products.

- The analytical results indicated that acrolein and propene were present in both indoor and outdoor samples. These COPCs are commercially used to produce a variety of chemicals. Acrolein is also a byproduct of combustion.

- Several substances were detected in indoor air samples at levels only slightly higher than the laboratory reporting limit. For instance, cyclohexane was detected only once at 4 ug/m^3, but the reporting limit is 1.6 ug/m^3. Similarly, 2-hexanone was detected only once at 1.2 ug/m^3, but the reporting limit is 0.8 ug/m^3. Also, o-xylene was detected only twice at 0.8 and 1.0 ug/m^3, but the reporting limit is 0.8 ug/m^3.

- Indoor air concentrations of COPCs were compared to concentrations reported in January 2008. Several substances detected in January 2008 were not detected at all in September 2008, including n-hexane, n-heptane, n-octane, n-nonane, 1,2,4-trimethyl benzene, 1,4-dichlorobenzene, and n-butyl-acetate. Almost all detected substances were detected at levels lower than those measured in January 2008. Substances detected at lower levels in September include acetone, benzene, toluene, m,p-xylenes, o-xylenes, trichloroethylene (TCE), tetrachloroethylene (PCE), naphthalene, dichlorodifluoromethane, trichlorofluoromethane, ethyl acetate, 2-butanone, 2-hexanone, 2-propanol, d-limonene, and alpha pinene. Specifically, trichloroethylene (TCE) was measured from nondetect to 13 ug/m^3 in January and nondetect to 4.3 ug/m^3 in September. Tetrachloroethylene (PCE) was measured from nondetect to 280 ug/m^3 in January and nondetect to 0.9 ug/m^3 in September.

5.3 Human Health Risk Assessment Results

Because the North Carolina Department of Environment and Natural Resources has not yet provided vapor intrusion guidance for this type of facility, human health risk assessment was performed by calculating both noncarcinogenic and carcinogenic risks associated with inhalation to the detected COPCs. Based on interviews with Rite Aid employees, health-protective exposure assumptions were defined as noted below.

Building 1	9 hours a day, 250 days a year, 25 years
Building 2	10 hours a day, 250 days a year, 25 years
Building 48	2 hours a day, 250 days a year, 25 years

Toxicological reference values, including Reference Concentrations and Unit Risk Factors were taken from U.S. EPA sources, when available. When U.S. EPA values were not available, toxicological criteria were obtained from other sources as noted in the Appendix A tables. Standard methods for data summarization were used. Specifically, substances were subjected to risk assessment if they were detected in at least one sample, and non-detect values were assigned surrogate values equal to one-half their laboratory reporting limit.

Risk assessment results are shown in Tables 3 and 4. As shown in Table 3, noncarcinogenic risks for Rite Aid workers ranged from a Hazard Index of 2.0 in Building 48 to 20 in Buildings 1 and 2 in January 2008 with acrolein included. With acrolein excluded, noncarcinogenic risks for Rite Aid workers ranged from a Hazard Index of 0.09 in Building 48 to 0.5 in Building 2 in January 2008. In September 2008, the noncarcinogenic risk ranged from a Hazard Index of 3.0 in Building 48 to 20 in Buildings 1 and 2 with acrolein included. With acrolein excluded, the

noncarcinogenic risk ranged from a Hazard Index of 0.01 in Building 48 to 0.2 in Building 2. On average, the noncarcinogenic risk ranged from a Hazard Index of 2 in Building 48 to 20 in Buildings 1 and 2 with acrolein included. With acrolein excluded, the noncarcinogenic risk ranged from a Hazard Index of 0.05 in Building 48 to 0.4 in Building 2. A Hazard Index of 1.0 or less is considered acceptable by most regulatory agencies.

The calculated noncarcinogenic risks were due to the detection of acrolein in indoor air samples. However, acrolein is a ubiquitous contaminant of indoor and outdoor air due to its presence in combustion emissions of all sorts, including cigarette smoke, vehicle emissions, power plant emissions, and emissions from home heating and cooking sources.

Specifically, Singer et al. (2002, 2003) measured acrolein as a component of Environmental Tobacco Smoke and found emission factors ranging from 373 to 610 micrograms per cigarette. Schauer et al. (2002) measured acrolein in emissions from gasoline powered vehicles and found emissions ranging from 60 to 3800 micrograms per km traveled. Schauer et al. (2001) measured acrolein in smoke from wood burning and found acrolein at levels ranging from 44,000 to 63,000 micrograms per kg of wood burned.

Many indoor and outdoor air quality surveys have documented that acrolein is ubiquitous in both indoor and outdoor air. ATSDR (2007) reported that acrolein is present in the ambient air at levels ranging from 1.2 to 7.6 ug/m^3. Weisel (2005) analyzed 395 outdoor samples in several cities and found a mean level of 6.3 ug/m^3. Sheldon et al. (1992) reported ambient acrolein concentrations of 2-9 ug/m^3. Indoor air concentrations of acrolein are also high. ATSDR (2007) reported indoor concentrations ranging from 0.4 to 43 ug/m^3 from eight studies. Hodson and Levin (2003) performed a review of indoor air quality surveys and reported the geometric mean acrolein concentration of 4.3 ug/m^3. Sheldon et al. (1992) reported indoor acrolein levels of 7.1 ug/m^3. Weisel et al. (2005) found mean levels of acrolein of 1.7 ug/m^3 in 398 indoor air samples, 12.9 ug/m^3 in 409 adult personal samples and 10.9 ug/m^3 in 169 child personal samples.

Clearly acrolein is typically present in outdoor air, homes, offices and commercial buildings at levels that in many cases far exceed the levels found in the Rite Aid buildings, which range from nondetect to 2.5 ug/m^3 in the most recent sampling event. Accordingly, acrolein is not a site-related constituent.

As shown in Table 4, carcinogenic risks for Rite Aid workers ranged from an Excess Lifetime Cancer Risk of $4x10^{-6}$ in Building 1 to $3x10^{-5}$ in Building 48 based on the January 2008 data. Carcinogenic risks for Rite Aid workers ranged from an Excess Lifetime Cancer Risk of $1x10^{-7}$ in Building 48 to $1x10^{-6}$ in Building 1 based on the September 2008 data. On average, the carcinogenic risks ranged from $3x10^{-6}$ in Building 1 to $1x10^{-5}$ in Building 48.

The calculated carcinogenic risks are due to the detection of tetrachloroethylene in one sample in Building 48 in January of 2008. In September of 2008, no tetrachloroethylene was detected in Building 48. Accordingly, the result from the January sampling may have been a sampling or laboratory artifact. When the data from both sampling events are averaged to better estimate long term exposures, the Excess Lifetime Cancer Risk is calculated to be $1x10^{-5}$ for workers in Building 48. Thus, even if it is assumed that the detection in January was a true representation

of the tetrachloroethylene in the indoor air of Building 48 in January, the exposure level over the course of the year falls within the EPA's acceptable risk range of $1x10^{-6}$, or 1/1,000,000 to $1x10^{-4}$, or 1/10,000.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The work performed included collection of ten AQ samples and one field blank at ten locations at the Site. AMEC identified no conditions in Buildings 1, 2, or 48 that would necessitate the Rite Aid Corporation to cease its current uses of the buildings. The analytical results for VOCs indicate no compounds identified that would be considered abnormal or elevated for an indoor environment. Workplace standards are not exceeded and estimated human health risks fall within the EPA's acceptable risk range.

7.0 REFERENCES

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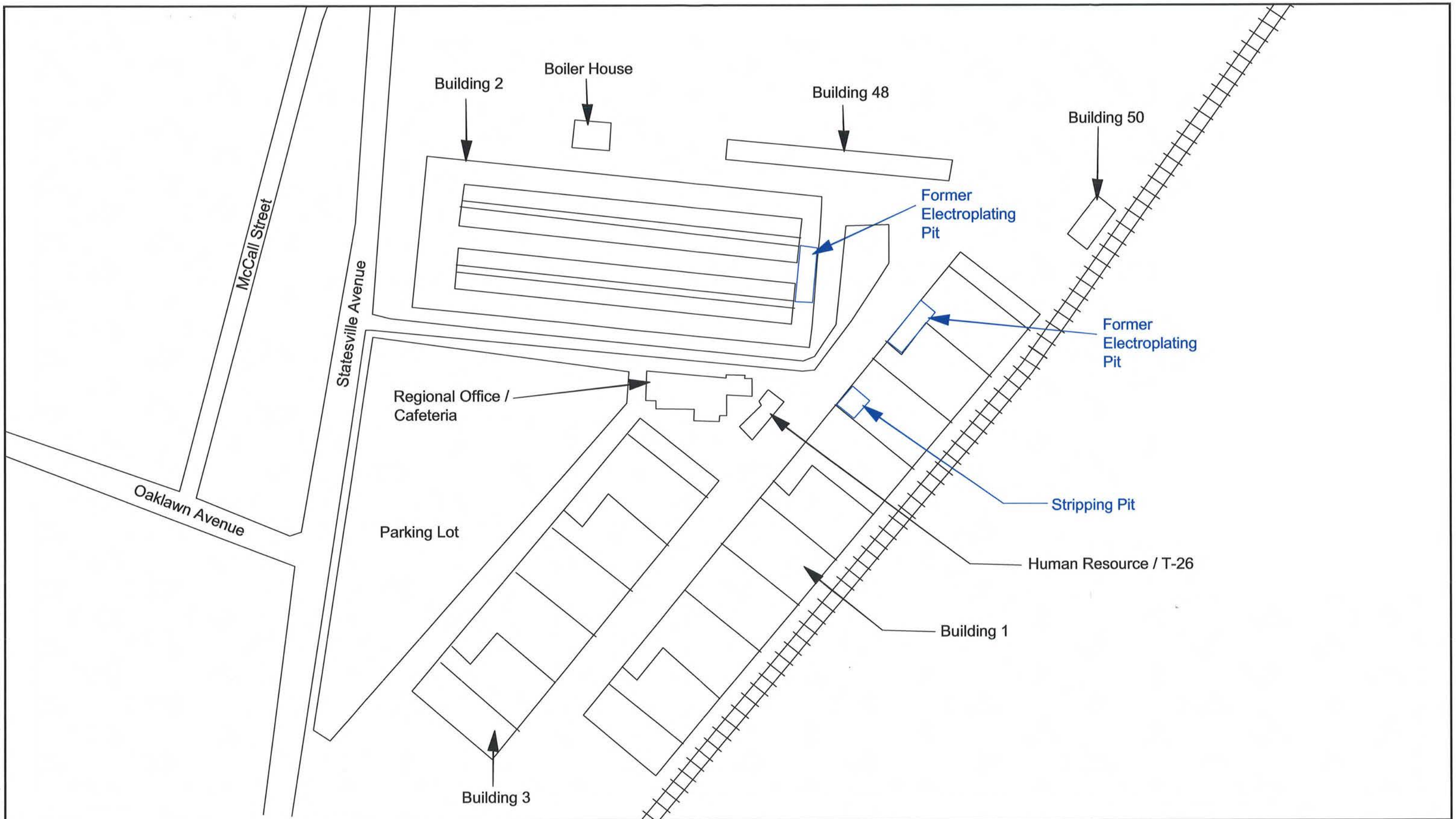
FIGURES



NOTES:

N W E S

0' 90' 180' 270'
1" = 180'
APPROXIMATE SCALE

AMEC Earth & Environmental
4513 Creedmoor Road, Suite 400
Raleigh, North Carolina 27612

amec

CLIENT: Priviledged and Confidential

TITLE: SITE MAP

DR: ASO	REV:	PROJ. NO.: 773670001
CHK: JL	DATE: 11-13-2008	FIG. NO. 1
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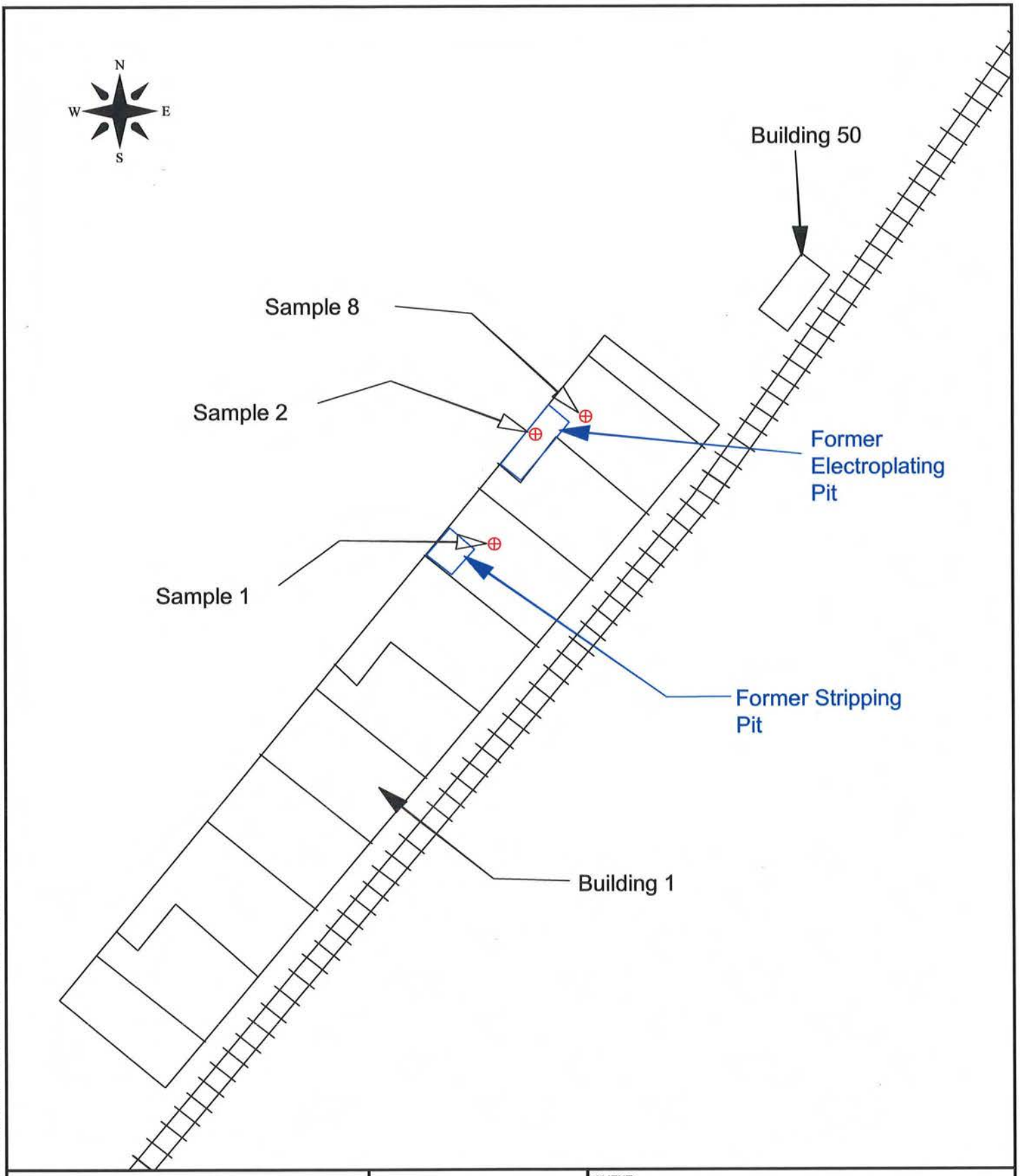

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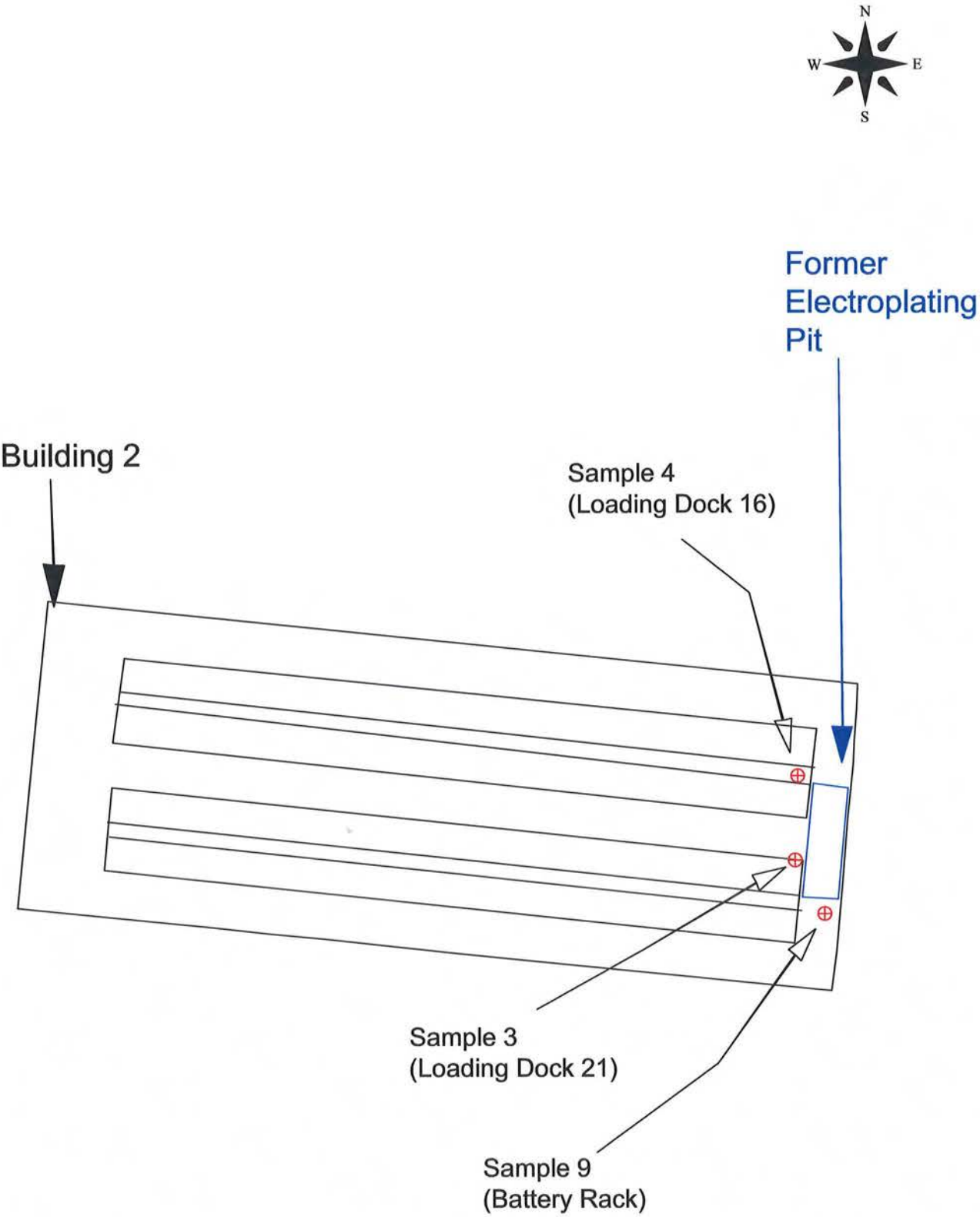

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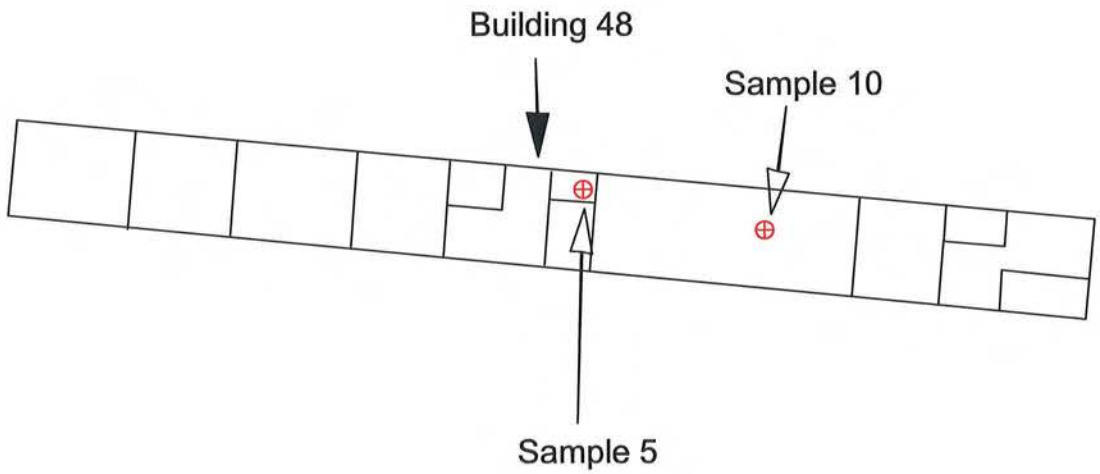

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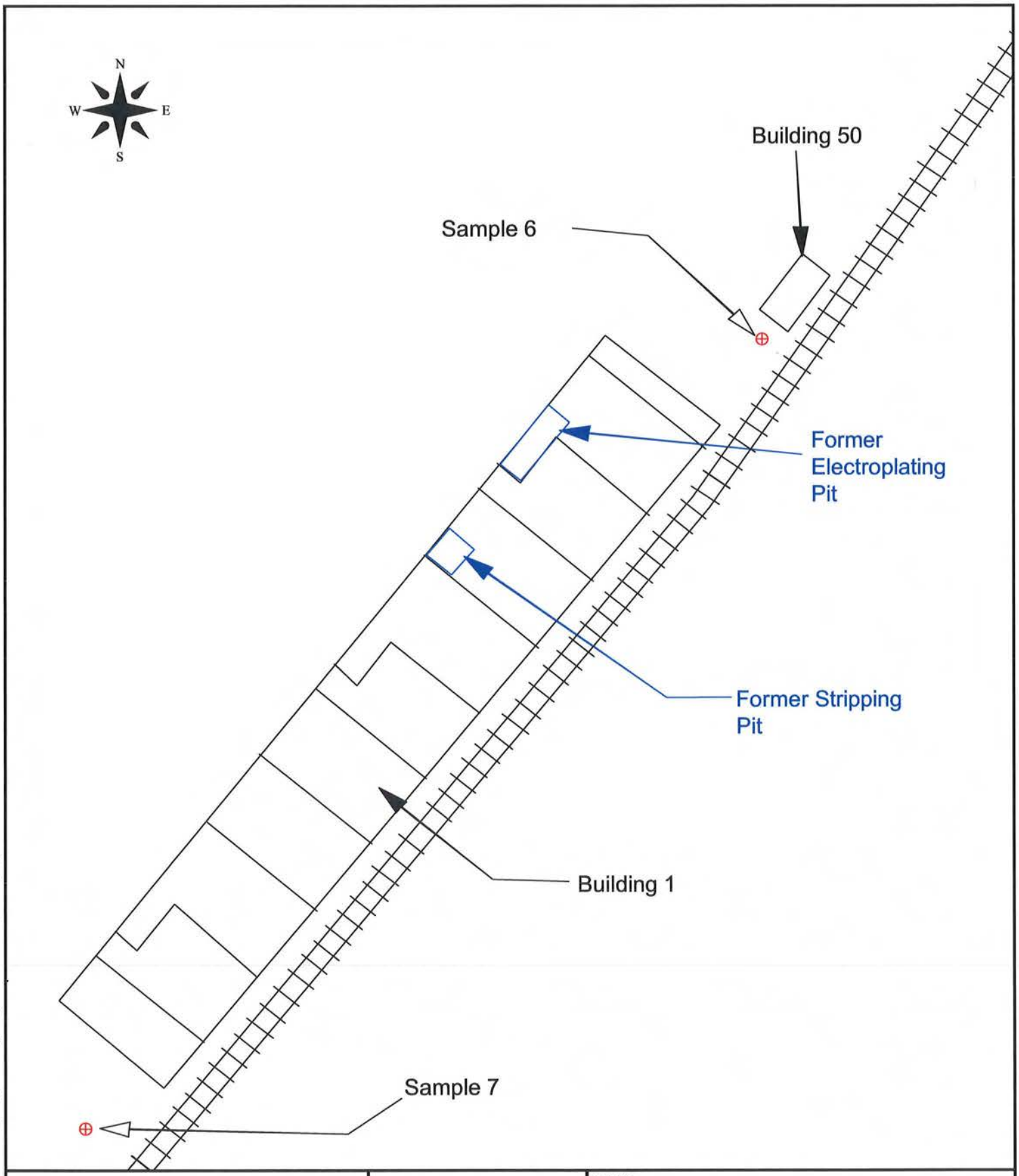

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TABLES

TABLE 1
AIR QUALITY ANALYTICAL RESULTS
RITE AID DISTRIBUTION FACILITY
CHARLOTTE, NORTH CAROLINA

Sampling I.D.	Sample Location	Laboratory I.D.	Summa Canister I.D	Analyte																						
				Propene	Dichlorodifluoromethane (CFC 12)	Ethanol	Acrolein	Acetone	Trichlorofluoromethane	2-Propanol (Isopropyl Alcohol)	Methylene Chloride	2-Butanone (MEK)	Ethyl Acetate	Benzene	Cyclohexane	Trichloroethene (TCE)	Toluene	2-Hexanone (MBK)	Tertachloroethene (PCE)	Ethylbenzene	m,p-Xylenes	Styrene	o-Xylene	alpha-Pinene	d-Limonene	Naphthalene
PEL (µg/m3)				NS	4.9E+06	1.9E+06	2.5E+01	2.4E+06	5.6E+06	9.8E+05	8.7E+04	5.9E+05	1.4E+06	3.2E+03	1.4E+06	5.5E+05	7.5E+05	4.1E+05	6.9E+05	4.3E+05	4.3E+05	4.3E+05	4.3E+05	NS	NS	5.2E+04
TLV (µg/m3)				8.6E+05	4.9E+04	1.9E+06	2.5E+01	1.2E+06	5.6E+06	4.9E+05	1.7E+05	5.9E+05	1.4E+06	1.6E+03	3.4E+05	5.5E+04	7.5E+04	2.0E+04	1.7E+05	4.3E+05	4.3E+05	8.5E+04	4.3E+05	NS	NS	5.2E+04
IDLH (µg/m3)				NS	2.5E+07	6.2E+06	4.6E+03	5.9E+06	1.1E+07	4.9E+06	8.0E+06	8.8E+06	7.2E+06	1.6E+06	4.5E+06	5.5E+06	1.9E+06	6.6E+06	1.0E+06	3.5E+06	3.9E+06	3.0E+06	3.9E+06	NS	NS	1.3E+06
1	Building 1, Computer Workstation	AC01264	3297	3.3	2.0	25	2.5	32	1.2	4.4	ND	4.4	2.9	ND	ND	2.6	4.4	1.2	0.9	1.2	1.8	1.1	0.8	2.1	2.3	ND
2	Building 1, Item Sorting/Storage Rack	AC01296	3486	3.2	2.0	27	1.6	27	1.1	4.1	ND	4.4	ND	ND	ND	4.3	3.9	ND	ND	1.0	ND	0.9	ND	2.5	2.1	ND
3	Building 2, Dock 21	AC00475	1772	2.3	2.1	61	1.1	24	1.3	2.8	ND	2.4	3.4	ND	ND	ND	3.9	ND	0.9	ND	ND	0.9	ND	3.4	1.6	2.5
4	Building 2, Dock 16 Workstation	AC01271	3259	2.5	2.0	110	1.2	18	1.2	4.3	ND	1.3	8.1	ND	ND	ND	3.7	ND	ND	ND	ND	ND	ND	2.7	1.8	2.1
5	Building 48, Former Paint Storage Room	AC01424	3760	1.1	2.0	ND	1.5	19	1.2	ND	ND	2.5	1.9	ND	ND	ND	3.0	ND	ND	ND	ND	1.0	ND	ND	ND	ND
6	Adj. to Building 50, Outdoor Sample	AC00435	1711	ND	2.0	ND	0.9	10	1.1	ND	ND	1.1	2.8	0.9	ND	ND	2.9	ND	ND	ND	ND	ND	ND	1.0	ND	ND
7	Adj. to Building 1, Outdoor Sample	AC00594	2024	1.3	1.9	ND	ND	19	1.1	ND	ND	1.1	ND	ND	ND	ND	3.6	ND	ND	ND	ND	ND	ND	ND	1.1	ND
8	Building 1, Cage Door	AC01042	2828	2.9	2.1	25	1.0	14	1.1	5.3	ND	1.6	7.7	0.8	4.0	2.5	5.4	ND	0.9	1.8	2.4	2.1	1.0	1.9	2.2	ND
9	Building 2, Battery Rack	AC01315	3542	2.3	2.0	75	1.5	23	1.2	4.3	6.2	2.6	14.0	ND	ND	ND	3.4	ND	ND	ND	ND	ND	ND	2.4	1.4	1.6
10	Building 48, Shop	AC00615	2036	1.1	2.0	ND	ND	14	1.1	ND	ND	2.7	2.4	ND	ND	ND	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	Field Blank	AC01051	2837	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Laboratory reporting limit				0.79	0.79	7.90	0.79	7.90	0.79	1.60	0.79	0.79	1.60	0.79	1.60	0.79	0.79	0.79	0.79	0.79	1.60	0.79	0.79	0.79	0.79	0.79

Notes:
NE - Standard not established.
ND - Analyte not detected above laboratory practical quantitation limit.
ml/min - milliliters per minute
All values reported in µg/m^3 (micrograms per cubic meter).

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TABLE 2
INDOOR AIR EVALUATION DATA SUMMARY
RITE AID DISTRIBUTION FACILITY
CHARLOTTE, NORTH CAROLINA

COMPOUND	AVERAGE EXPOSURE CONCENTRATION BUILDING 1 (µg/m³)			AVERAGE EXPOSURE CONCENTRATION BUILDING 2 (µg/m³)			AVERAGE EXPOSURE CONCENTRATION BUILDING 48 (µg/m³)		
	JANUARY 2008	SEPTEMBER 2008	AVERAGE OF JAN. & SEP.	JANUARY 2008	SEPTEMBER 2008	AVERAGE OF JAN. & SEP.	JANUARY 2008	SEPTEMBER 2008	AVERAGE OF JAN. & SEP.
Acrolein	1.2	1.7	1.5	1.5	1.3	1.3	0.5	0.9	0.8
Acetone	32	24.3	27.4	53	21.7	34.2	5.0	16.5	12.7
n-Hexane	0.7	NA	0.7	0.7	NA	0.7	0.5	NA	0.5
n-Heptane	0.5	NA	0.5	1.0	NA	1.0	0.5	NA	0.5
n-Octane	0.6	NA	0.6	0.7	NA	0.7	0.5	NA	0.5
n-Nonane	0.5	NA	0.5	4.0	NA	4.0	0.5	NA	0.5
Cyclohexane	1.2	1.9	1.6	0.6	0.8	0.7	0.5	0.8	0.7
Benzene	1.0	0.5	0.7	1.0	0.4	0.6	1.5	0.4	0.8
Toluene	4.1	4.6	4.4	5.3	3.7	4.3	6.1	3.3	4.2
Ethylbenzene	0.6	1.3	1.0	0.5	0.4	0.4	0.5	0.4	0.4
m,p-Xylenes	1.3	1.7	1.5	1.4	0.8	1.0	4.8	0.8	2.1
o-Xylene	0.5	0.7	0.6	0.6	0.4	0.5	1.7	0.4	0.8
Trichloroethene	12	3.1	6.7	0.5	0.4	0.4	0.5	0.4	0.4
Tetrachloroethene	0.5	0.7	0.6	0.7	0.6	0.6	280	0.4	93.6
1,2,4-Trimethylbenzene	0.5	NA	0.5	1.6	NA	1.6	1.9	NA	1.9
1,4-Dichlorobenzene	0.5	NA	0.5	3.7	NA	3.7	0.5	NA	0.5
Naphthalene	0.5	0.4	0.4	4.4	2.1	3.0	0.5	0.4	0.4
Dichlorodifluoromethane	2.2	2.0	2.1	2.8	2.0	2.3	2.0	2.0	2.0
Trichlorofluoromethane	1.2	1.1	1.2	2.2	1.2	1.6	0.5	1.2	0.9
Ethyl acetate	7.2	3.8	5.2	12.5	8.5	10.1	3.2	2.2	2.5
n-Butyl Acetate	0.5	NA	0.5	1.9	NA	1.9	0.5	NA	0.5
2-Butanone (MEK)	2.3	3.5	3.0	4.0	2.1	2.9	2.2	2.6	2.5
2-Hexanone	0.5	0.7	0.6	1.0	0.4	0.6	0.5	0.4	0.4
Ethanol	48.5	25.7	34.8	40	82	65	5.0	4.0	4.3
2-Propanol (Isopropyl Alcohol)	9.6	4.6	6.6	7.0	3.8	5.1	0.5	0.8	0.7
d-Limonene	2.8	2.2	2.4	2.6	1.6	2.0	0.5	0.4	0.4
alpha-Pinene	5.2	2.2	3.4	6.3	2.8	4.2	0.5	0.4	0.4
Methylene Chloride	NA	0.4	0.4	NA	2.3	2.3	NA	0.4	0.4
Styrene	NA	1.4	1.4	NA	0.6	0.6	NA	0.7	0.7

Notes:
Half the Method Reporting Limit was used as an estimated concentration for compounds not detected above the Method Reporting Limit
NA: Value not measured
When analysis was not performed for a compound in one of the two months, the value from the other month was used in place of an average

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TABLE 3
AVERAGE NONCARCINOGENIC HAZARD QUOTIENTS
RITE AID DISTRIBUTION FACILITY
CHARLOTTE, NORTH CAROLINA

COMPOUND	AVERAGE HAZARD QUOTIENT BUILDING 1 (μg/m³)			AVERAGE HAZARD QUOTIENT BUILDING 2 (μg/m³)			AVERAGE HAZARD QUOTIENT BUILDING 48 (μg/m³)		
	JANUARY 2008	SEPTEMBER 2008	AVERAGE OF JAN. & SEP.	JANUARY 2008	SEPTEMBER 2008	AVERAGE OF JAN. & SEP.	JANUARY 2008	SEPTEMBER 2008	AVERAGE OF JAN. & SEP.
Acrolein	2E+01	2E+01	2E+01	2E+01	2E+01	2E+01	1E+00	3E+00	2E+00
Acetone	3E-03	2E-03	2E-03	5E-03	2E-03	3E-03	9E-05	3E-04	2E-04
n-Hexane	2E-04	NA	2E-04	3E-04	NA	3E-04	4E-05	NA	4E-05
n-Heptane	7E-06	NA	7E-06	2E-05	NA	2E-05	2E-06	NA	2E-06
n-Octane	8E-06	NA	8E-06	1E-05	NA	1E-05	2E-06	NA	2E-06
n-Nonane	1E-04	NA	1E-04	1E-03	NA	1E-03	3E-05	NA	3E-05
Cyclohexane	5E-05	8E-05	7E-05	3E-05	4E-05	3E-05	5E-06	8E-06	7E-06
Benzene	9E-03	5E-03	6E-03	1E-02	4E-03	6E-03	3E-03	8E-04	1E-03
Toluene	2E-04	2E-04	2E-04	3E-04	2E-04	2E-04	7E-05	4E-05	5E-05
Ethylbenzene	2E-04	3E-04	3E-04	1E-04	1E-04	1E-04	3E-05	2E-05	2E-05
m,p-Xylenes	3E-03	4E-03	4E-03	4E-03	2E-03	3E-03	3E-03	5E-04	1E-03
o-Xylene	1E-03	2E-03	2E-03	2E-03	1E-03	1E-03	1E-03	2E-04	5E-04
Trichloroethene	9E-02	2E-02	5E-02	4E-03	3E-03	4E-03	8E-04	6E-04	7E-04
Tetrachloroethene	5E-04	7E-04	6E-04	7E-04	6E-04	6E-04	6E-02	8E-05	2E-02
1,2,4-Trimethylbenzene	2E-02	NA	2E-02	7E-02	NA	7E-02	2E-02	NA	2E-02
1,4-Dichlorobenzene	2E-04	NA	2E-04	1E-03	NA	1E-03	4E-05	NA	4E-05
Naphthalene	4E-02	3E-02	4E-02	4E-01	2E-01	3E-01	1E-02	8E-03	8E-03
Dichlorodifluoromethane	3E-03	3E-03	3E-03	5E-03	3E-03	4E-03	7E-04	7E-04	7E-04
Trichlorofluoromethane	4E-04	4E-04	4E-04	9E-04	5E-04	7E-04	4E-05	9E-05	8E-05
Ethyl acetate	6E-04	3E-04	4E-04	1E-03	8E-04	9E-04	6E-05	4E-05	5E-05
n-Butyl Acetate	4E-05	NA	4E-05	2E-04	NA	2E-04	9E-06	NA	9E-06
2-Butanone (MEK)	1E-04	2E-04	2E-04	2E-04	1E-04	2E-04	3E-05	3E-05	3E-05
2-Hexanone	3E-05	3E-05	3E-05	5E-05	2E-05	4E-05	6E-06	5E-06	5E-06
Ethanol	7E-06	3E-06	5E-06	6E-06	1E-05	1E-05	2E-07	1E-07	1E-07
2-Propanol (Isopropyl Alcohol)	3E-06	1E-06	2E-06	2E-06	1E-06	1E-06	3E-08	5E-08	4E-08
d-Limonene	7E-06	5E-06	6E-06	7E-06	4E-06	5E-06	3E-07	2E-07	2E-07
alpha-Pinene	1E-05	5E-06	8E-06	2E-05	7E-06	1E-05	3E-07	2E-07	2E-07
Methylene Chloride	NA	5E-04	5E-04	NA	3E-03	3E-03	NA	1E-04	1E-04
Styrene	NA	4E-04	4E-04	NA	2E-04	2E-04	NA	4E-05	4E-05
TOTAL	2E+01	2E+01	2E+01	2E+01	2E+01	2E+01	2E+00	3E+00	2E+00

Notes:
Yellow highlighted values indicate a Hazard Quotient greater than 1.0.
NA: Value not measured
When analysis was not performed for a compound in one of the two months, the value from the other month was used in place of an average

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TABLE 4
AVERAGE CARCINOGENIC EXCESS LIFETIME CANCER RISKS
RITE AID DISTRIBUTION FACILITY
CHARLOTTE, NORTH CAROLINA

COMPOUND	AVERAGE EXCESS LIFETIME CANCER RISK BUILDING 1 (μg/m³)			AVERAGE EXCESS LIFETIME CANCER RISK BUILDING 2 (μg/m³)			AVERAGE EXCESS LIFETIME CANCER RISK BUILDING 48 (μg/m³)		
	JANUARY 2008	SEPTEMBER 2008	AVERAGE OF JAN. & SEP.	JANUARY 2008	SEPTEMBER 2008	AVERAGE OF JAN. & SEP.	JANUARY 2008	SEPTEMBER 2008	AVERAGE OF JAN. & SEP.
Benzene	7E-07	4E-07	5E-07	8E-07	3E-07	5E-07	2E-07	6E-08	1E-07
1,4-Dichlorobenzene	5E-07	NA	5E-07	4E-06	NA	4E-06	1E-07	NA	1E-07
Trichloroethene	2E-06	6E-07	1E-06	1E-07	8E-08	9E-08	2E-08	2E-08	2E-08
Tetrachloroethene	3E-07	4E-07	3E-07	4E-07	3E-07	4E-07	3E-05	5E-08	1E-05
Methylene Chloride	NA	2E-08	2E-08	NA	1E-07	1E-07	NA	4E-09	4E-09
TOTAL	4E-06	1E-06	3E-06	6E-06	8E-07	5E-06	3E-05	1E-07	1E-05

Notes:

NA: Value not measured
When analysis was not performed for a compound in one of the two months, the value from the other month was used in place of an average

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APPENDIX A

RISK ASSESSMENT CALCULATIONS

TABLE A-1
SUMMARY OF NONCARCINOGENIC RISK RESULTS, JANUARY 2008
RITE AID DISTRIBUTION FACILITY
CHARLOTTE, NORTH CAROLINA

COMPOUND	AVERAGE EXPOSURE CONCENTRATION JANUARY 2008 ($\mu g/m^3$)[a]			NON-CARCINOGENIC TOXICITY VALUE ($\mu g/m^3$)	HAZARD QUOTIENT		
	BUILDING 1	BUILDING 2	BUILDING 48		BUILDING 1[j]	BUILDING 2[k]	BUILDING 48[l]
Acrolein	1.2	1.5	0.5	0.02[b]	2E+01	2E+01	1E+00
Acetone	32	53	5.0	3150[c]	3E-03	5E-03	9E-05
n-Hexane	0.7	0.7	0.5	700[b]	2E-04	3E-04	4E-05
n-Heptane	0.5	1.0	0.5	18400[d]	7E-06	2E-05	2E-06
n-Octane	0.6	0.7	0.5	18400[d]	8E-06	1E-05	2E-06
n-Nonane	0.5	4.0	0.5	1000[d]	1E-04	1E-03	3E-05
Cyclohexane	1.2	0.6	0.5	6000[b]	5E-05	3E-05	5E-06
Benzene	1.0	1.0	1.5	30[b]	9E-03	1E-02	3E-03
Toluene	4.1	5.3	6.1	5000[b]	2E-04	3E-04	7E-05
Ethylbenzene	0.6	0.5	0.5	1000[b]	2E-04	1E-04	3E-05
m,p-Xylenes	1.3	1.4	4.8	100[b]	3E-03	4E-03	3E-03
o-Xylene	0.5	0.6	1.7	100[b]	1E-03	2E-03	1E-03
Trichloroethene	12	0.5	0.5	35[c]	9E-02	4E-03	8E-04
Tetrachloroethene	0.5	0.7	280	280[c]	5E-04	7E-04	6E-02
1,2,4-Trimethylbenzene	0.5	1.6	1.9	7[c]	2E-02	7E-02	2E-02
1,4-Dichlorobenzene	0.5	3.7	0.5	800[b]	2E-04	1E-03	4E-05
Naphthalene	0.5	4.4	0.5	3[b]	4E-02	4E-01	1E-02
Dichlorodifluoromethane	2.2	2.8	2	175[c]	3E-03	5E-03	7E-04
Trichlorofluoromethane	1.2	2.2	0.5	700[c]	4E-04	9E-04	4E-05
Ethyl acetate	7.2	12.5	3.2	3150[c]	6E-04	1E-03	6E-05
n-Butyl Acetate	0.5	1.9	0.5	3150[e]	4E-05	2E-04	9E-06
2-Butanone (MEK)	2.3	4.0	2.2	5000[b]	1E-04	2E-04	3E-05
2-Hexanone	0.5	1.0	0.5	5000[f]	3E-05	5E-05	6E-06
Ethanol	48.5	40	5.0	1900000[g]	7E-06	6E-06	2E-07
2-Propanol (Isopropyl Alcohol)	9.6	7.0	0.5	980000[g]	3E-06	2E-06	3E-08
d-Limonene	2.8	2.6	0.5	110000[h]	7E-06	7E-06	3E-07
alpha-Pinene	5.2	6.3	0.5	110000[i]	1E-05	2E-05	3E-07
Methylene Chloride	NA	NA	NA	210[c]	NA	NA	NA
Styrene	NA	NA	NA	1000[b]	NA	NA	NA
TOTAL					2E+01	2E+01	2E+00

Notes:
(a) Half the Method Reporting Limit was used as an estimated concentration for compounds not detected above the Method Reporting Limit
(b) U.S. EPA IRIS, Reference Concentration
(c) U.S. EPA Region III Risk Based Concentration Table, Reference Concentration (converted from Reference Dose assuming body weight of 70 kg and inhalation rate of 20m3/day)
(d) Total Petroleum Hydrocarbon Working Group, Reference Concentration
(e) ethyl acetate used as surrogate
(f) 2-butanone used as surrogate
(g) OSHA, Permissable Exposure Limit (8-hour Time Weighted Average)
(h) German Research Foundation on the Investigation of Health Hazards of Chemical Compounds in the Work Area, Maximum Allowable Concentration
(i) d-limonene used as surrogate
(j) calculated as: (Exposure Concentration / Non-Carcinogenic Toxicity Value) x ((9/24) x (250/365) x (25/25))
(k) calculated as: (Exposure Concentration / Non-Carcinogenic Toxicity Value) x ((10/24) x (250/365) x (25/25))
(l) calculated as: (Exposure Concentration / Non-Carcinogenic Toxicity Value) x ((2/24) x (250/365) x (25/25))
Yellow highlighted values indicate a Hazard Quotient greater than 1.0.
NA: Value not measured

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TABLE A-2
SUMMARY OF CARCINOGENIC RISK RESULTS, JANUARY 2008
RITE AID DISTRIBUTION FACILITY
CHARLOTTE, NORTH CAROLINA

COMPOUND	AVERAGE EXPOSURE CONCENTRATION JANUARY 2008 ($\mu g/m^3$)			CARCINOGENIC TOXICITY VALUE $(\mu g/m^3)^{-1}$	EXCESS LIFETIME CANCER RISK		
	BUILDING 1	BUILDING 2	BUILDING 48		BUILDING 1[d]	BUILDING 2[e]	BUILDING 48[f]
Benzene	1.0	1.0	1.5	7.8E-06[a]	7E-07	8E-07	2E-07
1,4-Dichlorobenzene	0.5	3.7	0.5	1.1E-05[b]	5E-07	4E-06	1E-07
Trichloroethene	12	0.5	0.5	2E-06[c]	2E-06	1E-07	2E-08
Tetrachloroethene	0.5	0.7	280	5.7E-06[b]	3E-07	4E-07	3E-05
Methylene Chloride	NA	NA	NA	4.7E-07[a]	NA	NA	NA
TOTAL					4E-06	6E-06	3E-05

Notes:
(a) U.S. EPA IRIS, Unit Risk Factor
(b) U.S. EPA Region III Risk Based Concentration Table, Unit Risk Factor (converted from Cancer Slope Factor assuming body weight of 70 kg and inhalation rate of 20m3/day)
(c) California EPA, Unit Risk Factor
(d) calculated as: (Exposure Concentration x Carcinogenic Toxicity Value) x ((9/24) x (250/365) x (25/70))
(e) calculated as: (Exposure Concentration x Carcinogenic Toxicity Value) x ((10/24) x (250/365) x (25/70))
(f) calculated as: (Exposure Concentration x Carcinogenic Toxicity Value) x ((2/24) x (250/365) x (25/70))
Half the Method Reporting Limit was used as an estimated concentration for compounds not detected above the Method Reporting Limit

NA: Value not measured

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TABLE A-3
SUMMARY OF NONCARCINOGENIC RISK RESULTS, SEPTEMBER 2008
RITE AID DISTRIBUTION FACILITY
CHARLOTTE, NORTH CAROLINA

COMPOUND	AVERAGE EXPOSURE CONCENTRATION SEPTEMBER 2008 (µg/m³)[a]			NON-CARCINOGENIC TOXICITY VALUE (µg/m³)	HAZARD QUOTIENT		
	BUILDING 1	BUILDING 2	BUILDING 48		BUILDING 1[j]	BUILDING 2[k]	BUILDING 48[l]
Acrolein	1.7	1.3	0.9	0.02[b]	2E+01	2E+01	3E+00
Acetone	24.3	21.7	16.5	3150[c]	2E-03	2E-03	3E-04
n-Hexane	NA	NA	NA	700[b]	NA	NA	NA
n-Heptane	NA	NA	NA	18400[d]	NA	NA	NA
n-Octane	NA	NA	NA	18400[d]	NA	NA	NA
n-Nonane	NA	NA	NA	1000[d]	NA	NA	NA
Cyclohexane	1.9	0.8	0.8	6000[b]	8E-05	4E-05	8E-06
Benzene	0.5	0.4	0.4	30[b]	5E-03	4E-03	8E-04
Toluene	4.6	3.7	3.3	5000[b]	2E-04	2E-04	4E-05
Ethylbenzene	1.3	0.4	0.4	1000[b]	3E-04	1E-04	2E-05
m,p-Xylenes	1.7	0.8	0.8	100[b]	4E-03	2E-03	5E-04
o-Xylene	0.7	0.4	0.4	100[b]	2E-03	1E-03	2E-04
Trichloroethene	3.1	0.4	0.4	35[c]	2E-02	3E-03	6E-04
Tetrachloroethene	0.7	0.6	0.4	280[c]	7E-04	6E-04	8E-05
1,2,4-Trimethylbenzene	NA	NA	NA	7[c]	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	800[b]	NA	NA	NA
Naphthalene	0.4	2.1	0.4	3[b]	3E-02	2E-01	8E-03
Dichlorodifluoromethane	2.0	2.0	2.0	175[c]	3E-03	3E-03	7E-04
Trichlorofluoromethane	1.1	1.2	1.2	700[c]	4E-04	5E-04	9E-05
Ethyl acetate	3.8	8.5	2.2	3150[c]	3E-04	8E-04	4E-05
n-Butyl Acetate	NA	NA	NA	3150[e]	NA	NA	NA
2-Butanone (MEK)	3.5	2.1	2.6	5000[b]	2E-04	1E-04	3E-05
2-Hexanone	0.7	0.4	0.4	5000[f]	3E-05	2E-05	5E-06
Ethanol	25.7	82	4.0	1900000[g]	3E-06	1E-05	1E-07
2-Propanol (Isopropyl Alcohol)	4.6	3.8	0.8	980000[g]	1E-06	1E-06	5E-08
d-Limonene	2.2	1.6	0.4	110000[h]	5E-06	4E-06	2E-07
alpha-Pinene	2.2	2.8	0.4	110000[i]	5E-06	7E-06	2E-07
Methylene Chloride	0.4	2.3	0.4	210[c]	5E-04	3E-03	1E-04
Styrene	1.4	0.6	0.7	1000[b]	4E-04	2E-04	4E-05
TOTAL					2E+01	2E+01	3E+00

Notes:
(a) Half the Method Reporting Limit was used as an estimated concentration for compounds not detected above the Method Reporting Limit
(b) U.S. EPA IRIS, Reference Concentration
(c) U.S. EPA Region III Risk Based Concentration Table, Reference Concentration (converted from Reference Dose assuming body weight of 70 kg and inhalation rate of 20m3/day)
(d) Total Petroleum Hydrocarbon Working Group, Reference Concentration
(e) ethyl acetate used as surrogate
(f) 2-butanone used as surrogate
(g) OSHA, Permissable Exposure Limit (8-hour Time Weighted Average)
(h) German Research Foundation on the Investigation of Health Hazards of Chemical Compounds in the Work Area, Maximum Allowable Concentration
(i) d-limonene used as surrogate
(j) calculated as: (Exposure Concentration / Non-Carcinogenic Toxicity Value) x ((9/24) x (250/365) x (25/25))
(k) calculated as: (Exposure Concentration / Non-Carcinogenic Toxicity Value) x ((10/24) x (250/365) x (25/25))
(l) calculated as: (Exposure Concentration / Non-Carcinogenic Toxicity Value) x ((2/24) x (250/365) x (25/25))
Yellow Highlighted values indicate a Hazard Quotient greater than 1.0.
NA: Value not measured

Privileged and Confidential. Prepared at Request of Counsel.

TABLE A-4
SUMMARY OF CARCINOGENIC RISK RESULTS, SEPTEMBER 2008
RITE AID DISTRIBUTION FACILITY
CHARLOTTE, NORTH CAROLINA

COMPOUND	AVERAGE EXPOSURE CONCENTRATION SEPTEMBER 2008 ($\mu g/m^3$)[a]			CARCINOGENIC TOXICITY VALUE ($\mu g/m^3)^{-1}$	EXCESS LIFETIME CANCER RISK		
	BUILDING 1	BUILDING 2	BUILDING 48		BUILDING 1[e]	BUILDING 2[f]	BUILDING 48[g]
Benzene	0.5	0.4	0.4	7.8E-06[b]	4E-07	3E-07	6E-08
1,4-Dichlorobenzene	NA	NA	NA	1.1E-05[c]	NA	NA	NA
Trichloroethene	3.1	0.4	0.4	2E-06[d]	6E-07	8E-08	2E-08
Tetrachloroethene	0.7	0.6	0.4	5.7E-06[c]	4E-07	3E-07	5E-08
Methylene Chloride	0.4	2.3	0.4	4.7E-07[b]	2E-08	1E-07	4E-09
TOTAL					1E-06	8E-07	1E-07

Notes:
(a) Half the Method Reporting Limit was used as an estimated concentration for compounds not detected above the Method Reporting Limit
(b) U.S. EPA IRIS, Unit Risk Factor
(c) U.S. EPA Region III Risk Based Concentration Table, Unit Risk Factor (converted from Cancer Slope Factor assuming body weight of 70 kg and inhalation rate of 20m3/day)
(d) California EPA, Unit Risk Factor
(e) calculated as: (Exposure Concentration x Carcinogenic Toxicity Value) x ((9/24) x (250/365) x (25/70))
(f) calculated as: (Exposure Concentration x Carcinogenic Toxicity Value) x ((10/24) x (250/365) x (25/70))
(g) calculated as: (Exposure Concentration x Carcinogenic Toxicity Value) x ((2/24) x (250/365) x (25/70))
NA: Value not measured

Privileged and Confidential. Prepared at Request of Counsel.

TABLE A-5
SUMMARY OF NONCARCINOGENIC RISK RESULTS,
AVERAGE OF JANUARY AND SEPTEMBER 2008
RITE AID DISTRIBUTION FACILITY
CHARLOTTE, NORTH CAROLINA

COMPOUND	AVERAGE EXPOSURE CONCENTRATION[a] JANUARY & SEPTEMBER 2008 (µg/m³)			NON-CARCINOGENIC TOXICITY VALUE (µg/m³)	HAZARD QUOTIENT		
	BUILDING 1	BUILDING 2	BUILDING 48		BUILDING 1[j]	BUILDING 2[k]	BUILDING 48[l]
Acrolein	1.5	1.3	0.8	0.02[b]	2E+01	2E+01	2E+00
Acetone	27.4	34.2	12.7	3150[c]	2E-03	3E-03	2E-04
n-Hexane	0.7	0.7	0.5	700[b]	2E-04	3E-04	4E-05
n-Heptane	0.5	1.0	0.5	18400[d]	7E-06	2E-05	2E-06
n-Octane	0.6	0.7	0.5	18400[d]	8E-06	1E-05	2E-06
n-Nonane	0.5	4.0	0.5	1000[d]	1E-04	1E-03	3E-05
Cyclohexane	1.6	0.7	0.7	6000[b]	7E-05	3E-05	7E-06
Benzene	0.7	0.6	0.8	30[b]	6E-03	6E-03	1E-03
Toluene	4.4	4.3	4.2	5000[b]	2E-04	2E-04	5E-05
Ethylbenzene	1.0	0.4	0.4	1000[b]	3E-04	1E-04	2E-05
m,p-Xylenes	1.5	1.0	2.1	100[b]	4E-03	3E-03	1E-03
o-Xylene	0.6	0.5	0.8	100[b]	2E-03	1E-03	5E-04
Trichloroethene	6.7	0.4	0.4	35[c]	5E-02	4E-03	7E-04
Tetrachloroethene	0.6	0.6	93.6	280[c]	6E-04	6E-04	2E-02
1,2,4-Trimethylbenzene	0.5	1.6	1.9	7[c]	2E-02	7E-02	2E-02
1,4-Dichlorobenzene	0.5	3.7	0.5	800[b]	2E-04	1E-03	4E-05
Naphthalene	0.4	3.0	0.4	3[b]	4E-02	3E-01	8E-03
Dichlorodifluoromethane	2.1	2.3	2.0	175[c]	3E-03	4E-03	7E-04
Trichlorofluoromethane	1.2	1.6	0.9	700[c]	4E-04	7E-04	8E-05
Ethyl acetate	5.2	10.1	2.5	3150[c]	4E-04	9E-04	5E-05
n-Butyl Acetate	0.5	1.9	0.5	3150[e]	4E-05	2E-04	9E-06
2-Butanone (MEK)	3.0	2.9	2.5	5000[b]	2E-04	2E-04	3E-05
2-Hexanone	0.6	0.6	0.4	5000[f]	3E-05	4E-05	5E-06
Ethanol	34.8	65.2	4.3	1900000[g]	5E-06	1E-05	1E-07
2-Propanol (Isopropyl Alcohol)	6.6	5.1	0.7	980000[g]	2E-06	1E-06	4E-08
d-Limonene	2.4	2.0	0.4	110000[h]	6E-06	5E-06	2E-07
alpha-Pinene	3.4	4.2	0.4	110000[i]	8E-06	1E-05	2E-07
Methylene Chloride	0.4	2.3	0.4	210[c]	5E-04	3E-03	1E-04
Styrene	1.4	0.6	0.7	1000[b]	4E-04	2E-04	4E-05
TOTAL					2E+01	2E+01	2E+00

Notes:
(a) When analysis was not performed for a compound in one of the two months, the value from the other month was used in place of an average
(b) U.S. EPA IRIS, Reference Concentration
(c) U.S. EPA Region III Risk Based Concentration Table, Reference Concentration (converted from Reference Dose assuming body weight of 70 kg and inhalation rate of 20m3/day)
(d) Total Petroleum Hydrocarbon Working Group, Reference Concentration
(e) ethyl acetate used as surrogate
(f) 2-butanone used as surrogate
(g) OSHA, Permissable Exposure Limit (8-hour Time Weighted Average)
(h) German Research Foundation on the Investigation of Health Hazards of Chemical Compounds in the Work Area, Maximum Allowable Concentration
(i) d-limonene used as surrogate
(j) calculated as: (Exposure Concentration / Non-Carcinogenic Toxicity Value) x ((9/24) x (250/365) x (25/25))
(k) calculated as: (Exposure Concentration / Non-Carcinogenic Toxicity Value) x ((10/24) x (250/365) x (25/25))
(l) calculated as: (Exposure Concentration / Non-Carcinogenic Toxicity Value) x ((2/24) x (250/365) x (25/25))
Yellow Highlighted values indicate a Hazard Quotient greater than 1.0.

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TABLE A-6
SUMMARY OF CARCINOGENIC RISK RESULTS,
AVERAGE OF JANUARY AND SEPTEMBER 2008
RITE AID DISTRIBUTION FACILITY
CHARLOTTE, NORTH CAROLINA

COMPOUND	AVERAGE EXPOSURE CONCENTRATION[a] JANUARY & SEPTEMBER 2008 ($\mu g/m^3$)			CARCINOGENIC TOXICITY VALUE $(\mu g/m^3)^{-1}$	EXCESS LIFETIME CANCER RISK		
	BUILDING 1	BUILDING 2	BUILDING 48		BUILDING 1[e]	BUILDING 2[f]	BUILDING 48[g]
Benzene	0.7	0.6	0.8	7.8E-06[b]	5E-07	5E-07	1E-07
1,4-Dichlorobenzene	0.5	3.7	0.5	1.1E-05[c]	5E-07	4E-06	1E-07
Trichloroethene	6.7	0.4	0.4	2E-06[d]	1E-06	9E-08	2E-08
Tetrachloroethene	0.6	0.6	93.6	5.7E-06[c]	3E-07	4E-07	1E-05
Methylene Chloride	0.4	2.3	0.4	4.7E-07[b]	2E-08	1E-07	4E-09
TOTAL					3E-06	5E-06	1E-05

Notes:
(a) When analysis was not performed for a compound in one of the two months, the value from the other month was used in place of an average
(b) U.S. EPA IRIS, Unit Risk Factor
(c) U.S. EPA Region III Risk Based Concentration Table, Unit Risk Factor (converted from Cancer Slope Factor assuming body weight of 70 kg and inhalation rate of 20m3/day)
(d) Califomia EPA, Unit Risk Factor
(e) calculated as: (Exposure Concentration x Carcinogenic Toxicity Value) x ((9/24) x (250/365) x (25/70))
(f) calculated as: (Exposure Concentration x Carcinogenic Toxicity Value) x ((10/24) x (250/365) x (25/70))
(g) calculated as: (Exposure Concentration x Carcinogenic Toxicity Value) x ((2/24) x (250/365) x (25/70))
NA: Value not measured

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APPENDIX B

LABORATORY ANALYTICAL DATA

2655 Park Center Drive, Suite A Simi Valley, California 93065 (805) 526-7161 (805) 526-7270 fax

Columbia Analytical Services INC
An Employee - Owned Company

LABORATORY REPORT

September 25, 2008

Brian Magee
AMEC Earth & Environmental, Inc.
239 Littleton Road Suite 1B
Westford, MA 01886

RE: Rite Aid Charlotte, NC

Dear Brian:

Enclosed are the results of the samples submitted to our laboratory on September 12, 2008. For your reference, these analyses have been assigned our service request number P0802986.

All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein. Your report contains 50 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307; TX Commission of Environmental Quality, NELAP ID T104704413-08-TX. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

Columbia Analytical Services, Inc.

Kate Aguilera

Kate Aguilera
Project Manager

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

2655 Park Center Drive, Suite A Simi Valley, California 93065 (805) 526-7161 (805) 526-7270 fax

Columbia Analytical Services INC
An Employee - Owned Company

Client: AMEC Earth & Environmental, Inc. CAS Project No: P0802986
Project: Rite Aid Charlotte, NC

CASE NARRATIVE

The samples were received intact under chain of custody on September 12, 2008 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for selected volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

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Client: AMEC Earth & Environmental, Incorporated

Folder: P0802986

Project: Rite Aid Charlotte, NC

Detailed Sample Information

CAS Sample ID	Client Sample ID	Container Type	Pi1 (Hg)	Pi1 (psig)	Pf1	Pi2 (Hg)	Pi2 (psig)	Pf2	Cont ID	Order #	FC ID	Order #
P0802986-001.01	1	6.0 L-Summa Canister Ambient	-6.4	-3.1	3.5				AC01264	**10171**		
P0802986-002.01	2	6.0 L-Summa Canister Ambient	-9.0	-4.4	3.9				AC01296	**10171**		
P0802986-003.01	3	6.0 L-Summa Canister Ambient	-8.0	-3.9	3.8				AC00475	**10171**		
P0802986-004.01	4	6.0 L-Summa Canister Ambient	-10.2	-5.0	3.5				AC01271	**10171**		
P0802986-005.01	5	6.0 L-Summa Canister Ambient	-10.2	-5.0	3.5				AC01424	**10171**		
P0802986-006.01	6	6.0 L-Summa Canister Ambient	-7.2	-3.5	3.8				AC00435	**10171**		
P0802986-007.01	7	6.0 L-Summa Canister Ambient	-9.6	-4.7	3.7				AC00594	**10171**		
P0802986-008.01	8	6.0 L-Summa Canister Ambient	-7.8	-3.8	3.5				AC01042	**10171**		
P0802986-009.01	9	6.0 L-Summa Canister Ambient	-13.1	-6.4	3.5				AC01315	**10171**		
P0802986-010.01	10	6.0 L-Summa Canister Ambient	-11.1	-5.5	3.5				AC00615	**10171**		
P0802986-011.01	11	6.0 L-Summa Canister Ambient	-28.4	-13.9	3.5				AC01051	**10171**		

Client: AMEC Earth & Environmental, Incorporated

Project: Rite Aid Charlotte, NC

Folder: P0802986

Detailed Sample Information

CAS Sample ID	Client Sample ID	Container Type	Pi1 (Hg)	Pi1 (psig)	Pf1	Pi2 (Hg)	Pi2 (psig)	Pf2	Cont ID	Order #	FC ID	Order #

Miscellaneous Items - received

AVG00825
AVG00855
FC00555
AVG00436
FC00220
AVG00806
AVG00900
AVG00786
FC00536
FC00504
FC00449
FC00348
AVG00525
AVG00853
FC00384
AVG00862
FC00668
FC00632
FC00243
AVG00914
FC00630
AVG00362

Air - Chain of Custody Record & Analytical Service Request

Page ____ of ____

Columbia Analytical Services INC.
An Employee - Owned Company

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day - Standard

CAS Project No. P080248L

Company Name & Address (Reporting Information): AMEC Earth & Environmental, 2 Rollins Road, Wilmington, MA 01887

Project Name: Rite Aid Charlotte NC

Project Number:

CAS Contact:

Project Manager: Chris Magee

P.O. # / Billing Information:

Phone: 978 392 1090

Fax:

Email Address for Result Reporting: chris.magee@amec.com

Sampler (Print & Sign): Todd Lambert

Analysis Method and/or Analytes: TO-15 SIM

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Sample Type (Air/Tube/Solid)	Canister ID (Bar Code # - AC, SC, etc.)	Flow Controller (Bar Code - FC #)	Sample Volume	TO-15 SIM				Comments e.g. Actual Preservative or specific instructions
2	3297	9/1/08	0814	Air	3297		6L	X				-6.4
3	03966	9/1/08	0829	Air	03966		6L	X				-9.0
5	01772	9/1/08	0842	Air	01772		6L	X				-8.0
4	3259	9/1/08	0833	Air	3259		6L	X				-10.2
7	005760	9/1/08	0803	Air	005760		6L	X				-10.2
	01711	9/1/08	0818	Air	01711		6L	X				-7.2
	02024	9/1/08	0945	Air	02024		6L	X				-9.6
6	002838	9/1/08	0826	Air	002838		6L	X				-7.8
9	003542	9/1/08	0847	Air	003542		6L	X				-13.1
10	02536	9/1/08	0950	Air	02536		6L	X				-11.1
11	002801	9/1/08	0903	Air	002801		6L	X				-28.4

Report Tier Levels - please select
Tier I - (Results/Default if not specified) ____
Tier II - (Results + QC) ____
Tier III - (Data Validation Package) 10% Surcharge ____
Tier V - (client specified) ____
EDD required Yes / No
Type: _____
EDD Units: _____

Project Requirements (MRLs, QAPP):

Relinquished by: (Signature)	Date: 9/1/08	Time: 0915	Received by: (Signature)	Date: 9/1/08	Time: 0915
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Cooler / Blank

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: AMEC Earth & Environmental, Inc. Work order: P0802986

Project: Rite Aid Charlotte, NC

Sample(s) received on: 09/12/08 Date opened: 09/12/08 by: MZAMORA

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Container(s) **supplied by CAS**?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
	Cooler Temperature _____ °C Blank Temperature _____ °C			
9	Was a **trip blank** received?	☐	☒	☐
	Trip blank supplied by CAS: Serial # _____ -TB _____			
10	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
11	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
12	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
13	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0802986-001.01	6.0 L Ambient Can					
P0802986-002.01	6.0 L Ambient Can					
P0802986-003.01	6.0 L Ambient Can					
P0802986-004.01	6.0 L Ambient Can					
P0802986-005.01	6.0 L Ambient Can					
P0802986-006.01	6.0 L Ambient Can					
P0802986-007.01	6.0 L Ambient Can					

Explain any discrepancies: (include lab sample ID numbers): _____

*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12);

Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12) RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: AMEC Earth & Environmental, Inc. Work order: P0802986

Project: Rite Aid Charlotte, NC

Sample(s) received on: 09/12/08 Date opened: 09/12/08 by: MZAMORA

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0802986-008.01	6.0 L Ambient Can					
P0802986-009.01	6.0 L Ambient Can					
P0802986-010.01	6.0 L Ambient Can					
P0802986-011.01	6.0 L Ambient Can					

Explain any discrepancies: (include lab sample ID numbers):

*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12);

Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12) RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **1**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01264

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/19/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	**Propene**	**3.3**	0.79	**1.9**	0.46	**M**
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.0**	0.79	**0.41**	0.16	
74-87-3	Chloromethane	ND	0.79	ND	0.38	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.79	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.79	ND	0.31	
106-99-0	1,3-Butadiene	ND	0.79	ND	0.35	
74-83-9	Bromomethane	ND	0.79	ND	0.20	
75-00-3	Chloroethane	ND	0.79	ND	0.30	
64-17-5	**Ethanol**	**25**	7.9	**13**	4.2	
75-05-8	Acetonitrile	ND	0.79	ND	0.47	
107-02-8	**Acrolein**	**2.5**	0.79	**1.1**	0.34	
67-64-1	**Acetone**	**32**	7.9	**14**	3.3	**M**
75-69-4	**Trichlorofluoromethane**	**1.2**	0.79	**0.21**	0.14	
67-63-0	**2-Propanol (Isopropyl Alcohol)**	**4.4**	1.6	**1.8**	0.64	
107-13-1	Acrylonitrile	ND	0.79	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	0.79	ND	0.20	
75-09-2	Methylene Chloride	ND	0.79	ND	0.23	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.79	ND	0.25	
76-13-1	Trichlorotrifluoroethane	ND	0.79	ND	0.10	
75-15-0	Carbon Disulfide	ND	0.79	ND	0.25	
156-60-5	trans-1,2-Dichloroethene	ND	0.79	ND	0.20	
75-34-3	1,1-Dichloroethane	ND	0.79	ND	0.19	
1634-04-4	Methyl tert-Butyl Ether	ND	0.79	ND	0.22	
108-05-4	Vinyl Acetate	ND	7.9	ND	2.2	
78-93-3	**2-Butanone (MEK)**	**4.4**	0.79	**1.5**	0.27	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Rw Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **1** CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** CAS Sample ID: P0802986-001

Test Code: EPA TO-15 Date Collected: 9/11/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 9/12/08
Analyst: Simon Cao Date Analyzed: 9/19/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01264

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.79	ND	0.20	
141-78-6	**Ethyl Acetate**	**2.9**	1.6	**0.81**	0.44	
110-54-3	n-Hexane	ND	0.79	ND	0.22	
67-66-3	Chloroform	ND	0.79	ND	0.16	
109-99-9	Tetrahydrofuran (THF)	ND	0.79	ND	0.27	
107-06-2	1,2-Dichloroethane	ND	0.79	ND	0.19	
71-55-6	1,1,1-Trichloroethane	ND	0.79	ND	0.14	
71-43-2	Benzene	ND	0.79	ND	0.25	
56-23-5	Carbon Tetrachloride	ND	0.79	ND	0.12	
110-82-7	Cyclohexane	ND	1.6	ND	0.46	
78-87-5	1,2-Dichloropropane	ND	0.79	ND	0.17	
75-27-4	Bromodichloromethane	ND	0.79	ND	0.12	
79-01-6	**Trichloroethene**	**2.6**	0.79	**0.48**	0.15	
123-91-1	1,4-Dioxane	ND	0.79	ND	0.22	
80-62-6	Methyl Methacrylate	ND	1.6	ND	0.38	
142-82-5	n-Heptane	ND	0.79	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	0.79	ND	0.17	
108-10-1	4-Methyl-2-pentanone	ND	0.79	ND	0.19	
10061-02-6	trans-1,3-Dichloropropene	ND	0.79	ND	0.17	
79-00-5	1,1,2-Trichloroethane	ND	0.79	ND	0.14	
108-88-3	**Toluene**	**4.4**	0.79	**1.2**	0.21	
591-78-6	**2-Hexanone**	**1.2**	0.79	**0.29**	0.19	
124-48-1	Dibromochloromethane	ND	0.79	ND	0.092	
106-93-4	1,2-Dibromoethane	ND	0.79	ND	0.10	
123-86-4	n-Butyl Acetate	ND	0.79	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Re Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **1**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01264

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/19/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.79	ND	0.17	
127-18-4	**Tetrachloroethene**	**0.89**	0.79	**0.13**	0.12	
108-90-7	Chlorobenzene	ND	0.79	ND	0.17	
100-41-4	**Ethylbenzene**	**1.2**	0.79	**0.28**	0.18	
179601-23-1	**m,p-Xylenes**	**1.8**	1.6	**0.43**	0.36	
75-25-2	Bromoform	ND	0.79	ND	0.076	
100-42-5	**Styrene**	**1.1**	0.79	**0.26**	0.18	
95-47-6	**o-Xylene**	**0.82**	0.79	**0.19**	0.18	
111-84-2	n-Nonane	ND	0.79	ND	0.15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.79	ND	0.11	
98-82-8	Cumene	ND	0.79	ND	0.16	
80-56-8	**alpha-Pinene**	**2.1**	0.79	**0.38**	0.14	
103-65-1	n-Propylbenzene	ND	0.79	ND	0.16	
622-96-8	4-Ethyltoluene	ND	0.79	ND	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND	0.79	ND	0.16	
95-63-6	1,2,4-Trimethylbenzene	ND	0.79	ND	0.16	
100-44-7	Benzyl Chloride	ND	0.79	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	0.79	ND	0.13	
106-46-7	1,4-Dichlorobenzene	ND	0.79	ND	0.13	
95-50-1	1,2-Dichlorobenzene	ND	0.79	ND	0.13	
5989-27-5	**d-Limonene**	**2.3**	0.79	**0.42**	0.14	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.79	ND	0.081	
120-82-1	1,2,4-Trichlorobenzene	ND	0.79	ND	0.11	
91-20-3	Naphthalene	ND	0.79	ND	0.15	
87-68-3	Hexachlorobutadiene	ND	0.79	ND	0.074	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rc Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **2** — CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** — CAS Sample ID: P0802986-002

Test Code: EPA TO-15 — Date Collected: 9/11/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 — Date Received: 9/12/08
Analyst: Simon Cao — Date Analyzed: 9/20/08
Sampling Media: 6.0 L Summa Canister — Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01296

Initial Pressure (psig): -4.4 Final Pressure (psig): 3.9

Canister Dilution Factor: 1.81

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	**Propene**	**3.2**	0.91	**1.8**	0.53	**M**
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.0**	0.91	**0.39**	0.18	
74-87-3	Chloromethane	ND	0.91	ND	0.44	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.91	ND	0.13	
75-01-4	Vinyl Chloride	ND	0.91	ND	0.35	
106-99-0	1,3-Butadiene	ND	0.91	ND	0.41	
74-83-9	Bromomethane	ND	0.91	ND	0.23	
75-00-3	Chloroethane	ND	0.91	ND	0.34	
64-17-5	**Ethanol**	**27**	9.1	**15**	4.8	
75-05-8	Acetonitrile	ND	0.91	ND	0.54	
107-02-8	**Acrolein**	**1.6**	0.91	**0.68**	0.39	
67-64-1	**Acetone**	**27**	9.1	**11**	3.8	**M**
75-69-4	**Trichlorofluoromethane**	**1.1**	0.91	**0.20**	0.16	
67-63-0	**2-Propanol (Isopropyl Alcohol)**	**4.1**	1.8	**1.7**	0.74	
107-13-1	Acrylonitrile	ND	0.91	ND	0.42	
75-35-4	1,1-Dichloroethene	ND	0.91	ND	0.23	
75-09-2	Methylene Chloride	ND	0.91	ND	0.26	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.91	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	0.91	ND	0.12	
75-15-0	Carbon Disulfide	ND	0.91	ND	0.29	
156-60-5	trans-1,2-Dichloroethene	ND	0.91	ND	0.23	
75-34-3	1,1-Dichloroethane	ND	0.91	ND	0.22	
1634-04-4	Methyl tert-Butyl Ether	ND	0.91	ND	0.25	
108-05-4	Vinyl Acetate	ND	9.1	ND	2.6	
78-93-3	**2-Butanone (MEK)**	**4.4**	0.91	**1.5**	0.31	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Rc Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **2** — CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** — CAS Sample ID: P0802986-002

Test Code: EPA TO-15 — Date Collected: 9/11/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 — Date Received: 9/12/08
Analyst: Simon Cao — Date Analyzed: 9/20/08
Sampling Media: 6.0 L Summa Canister — Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01296

Initial Pressure (psig): -4.4 Final Pressure (psig): 3.9

Canister Dilution Factor: 1.81

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.91	ND	0.23	
141-78-6	Ethyl Acetate	ND	1.8	ND	0.50	
110-54-3	n-Hexane	ND	0.91	ND	0.26	
67-66-3	Chloroform	ND	0.91	ND	0.19	
109-99-9	Tetrahydrofuran (THF)	ND	0.91	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	0.91	ND	0.22	
71-55-6	1,1,1-Trichloroethane	ND	0.91	ND	0.17	
71-43-2	Benzene	ND	0.91	ND	0.28	
56-23-5	Carbon Tetrachloride	ND	0.91	ND	0.14	
110-82-7	Cyclohexane	ND	1.8	ND	0.53	
78-87-5	1,2-Dichloropropane	ND	0.91	ND	0.20	
75-27-4	Bromodichloromethane	ND	0.91	ND	0.14	
79-01-6	**Trichloroethene**	**4.3**	0.91	**0.80**	0.17	
123-91-1	1,4-Dioxane	ND	0.91	ND	0.25	
80-62-6	Methyl Methacrylate	ND	1.8	ND	0.44	
142-82-5	n-Heptane	ND	0.91	ND	0.22	
10061-01-5	cis-1,3-Dichloropropene	ND	0.91	ND	0.20	
108-10-1	4-Methyl-2-pentanone	ND	0.91	ND	0.22	
10061-02-6	trans-1,3-Dichloropropene	ND	0.91	ND	0.20	
79-00-5	1,1,2-Trichloroethane	ND	0.91	ND	0.17	
108-88-3	**Toluene**	**3.9**	0.91	**1.0**	0.24	
591-78-6	2-Hexanone	ND	0.91	ND	0.22	
124-48-1	Dibromochloromethane	ND	0.91	ND	0.11	
106-93-4	1,2-Dibromoethane	ND	0.91	ND	0.12	
123-86-4	n-Butyl Acetate	ND	0.91	ND	0.19	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RC Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **2**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01296

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/20/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.4 Final Pressure (psig): 3.9

Canister Dilution Factor: 1.81

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.91	ND	0.19	
127-18-4	Tetrachloroethene	ND	0.91	ND	0.13	
108-90-7	Chlorobenzene	ND	0.91	ND	0.20	
100-41-4	**Ethylbenzene**	**0.96**	0.91	**0.22**	0.21	
179601-23-1	m,p-Xylenes	ND	1.8	ND	0.42	
75-25-2	Bromoform	ND	0.91	ND	0.088	
100-42-5	**Styrene**	**0.94**	0.91	**0.22**	0.21	
95-47-6	o-Xylene	ND	0.91	ND	0.21	
111-84-2	n-Nonane	ND	0.91	ND	0.17	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.91	ND	0.13	
98-82-8	Cumene	ND	0.91	ND	0.18	
80-56-8	**alpha-Pinene**	**2.5**	0.91	**0.45**	0.16	
103-65-1	n-Propylbenzene	ND	0.91	ND	0.18	
622-96-8	4-Ethyltoluene	ND	0.91	ND	0.18	
108-67-8	1,3,5-Trimethylbenzene	ND	0.91	ND	0.18	
95-63-6	1,2,4-Trimethylbenzene	ND	0.91	ND	0.18	
100-44-7	Benzyl Chloride	ND	0.91	ND	0.17	
541-73-1	1,3-Dichlorobenzene	ND	0.91	ND	0.15	
106-46-7	1,4-Dichlorobenzene	ND	0.91	ND	0.15	
95-50-1	1,2-Dichlorobenzene	ND	0.91	ND	0.15	
5989-27-5	**d-Limonene**	**2.1**	0.91	**0.37**	0.16	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.91	ND	0.094	
120-82-1	1,2,4-Trichlorobenzene	ND	0.91	ND	0.12	
91-20-3	Naphthalene	ND	0.91	ND	0.17	
87-68-3	Hexachlorobutadiene	ND	0.91	ND	0.085	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RC Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **3** — CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** — CAS Sample ID: P0802986-003

Test Code: EPA TO-15 — Date Collected: 9/11/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 — Date Received: 9/12/08
Analyst: Simon Cao — Date Analyzed: 9/19/08
Sampling Media: 6.0 L Summa Canister — Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00475

Initial Pressure (psig): -3.9 Final Pressure (psig): 3.8

Canister Dilution Factor: 1.71

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	**Propene**	**2.3**	0.86	**1.3**	0.50	**M**
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.1**	0.86	**0.42**	0.17	
74-87-3	Chloromethane	ND	0.86	ND	0.41	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.86	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.86	ND	0.33	
106-99-0	1,3-Butadiene	ND	0.86	ND	0.39	
74-83-9	Bromomethane	ND	0.86	ND	0.22	
75-00-3	Chloroethane	ND	0.86	ND	0.32	
64-17-5	**Ethanol**	**61**	8.6	**33**	4.5	
75-05-8	Acetonitrile	ND	0.86	ND	0.51	
107-02-8	**Acrolein**	**1.1**	0.86	**0.47**	0.37	
67-64-1	**Acetone**	**24**	8.6	**10**	3.6	**M**
75-69-4	**Trichlorofluoromethane**	**1.3**	0.86	**0.23**	0.15	
67-63-0	**2-Propanol (Isopropyl Alcohol)**	**2.8**	1.7	**1.2**	0.70	
107-13-1	Acrylonitrile	ND	0.86	ND	0.39	
75-35-4	1,1-Dichloroethene	ND	0.86	ND	0.22	
75-09-2	Methylene Chloride	ND	0.86	ND	0.25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.86	ND	0.27	
76-13-1	Trichlorotrifluoroethane	ND	0.86	ND	0.11	
75-15-0	Carbon Disulfide	ND	0.86	ND	0.27	
156-60-5	trans-1,2-Dichloroethene	ND	0.86	ND	0.22	
75-34-3	1,1-Dichloroethane	ND	0.86	ND	0.21	
1634-04-4	Methyl tert-Butyl Ether	ND	0.86	ND	0.24	
108-05-4	Vinyl Acetate	ND	8.6	ND	2.4	
78-93-3	**2-Butanone (MEK)**	**2.4**	0.86	**0.81**	0.29	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Rec Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **3** — CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** — CAS Sample ID: P0802986-003

Test Code: EPA TO-15 — Date Collected: 9/11/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 — Date Received: 9/12/08
Analyst: Simon Cao — Date Analyzed: 9/19/08
Sampling Media: 6.0 L Summa Canister — Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00475

Initial Pressure (psig): -3.9 Final Pressure (psig): 3.8

Canister Dilution Factor: 1.71

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.86	ND	0.22	
141-78-6	**Ethyl Acetate**	**3.4**	1.7	**0.95**	0.47	
110-54-3	n-Hexane	ND	0.86	ND	0.24	
67-66-3	Chloroform	ND	0.86	ND	0.18	
109-99-9	Tetrahydrofuran (THF)	ND	0.86	ND	0.29	
107-06-2	1,2-Dichloroethane	ND	0.86	ND	0.21	
71-55-6	1,1,1-Trichloroethane	ND	0.86	ND	0.16	
71-43-2	Benzene	ND	0.86	ND	0.27	
56-23-5	Carbon Tetrachloride	ND	0.86	ND	0.14	
110-82-7	Cyclohexane	ND	1.7	ND	0.50	
78-87-5	1,2-Dichloropropane	ND	0.86	ND	0.19	
75-27-4	Bromodichloromethane	ND	0.86	ND	0.13	
79-01-6	Trichloroethene	ND	0.86	ND	0.16	
123-91-1	1,4-Dioxane	ND	0.86	ND	0.24	
80-62-6	Methyl Methacrylate	ND	1.7	ND	0.42	
142-82-5	n-Heptane	ND	0.86	ND	0.21	
10061-01-5	cis-1,3-Dichloropropene	ND	0.86	ND	0.19	
108-10-1	4-Methyl-2-pentanone	ND	0.86	ND	0.21	
10061-02-6	trans-1,3-Dichloropropene	ND	0.86	ND	0.19	
79-00-5	1,1,2-Trichloroethane	ND	0.86	ND	0.16	
108-88-3	**Toluene**	**3.9**	0.86	**1.0**	0.23	
591-78-6	2-Hexanone	ND	0.86	ND	0.21	
124-48-1	Dibromochloromethane	ND	0.86	ND	0.10	
106-93-4	1,2-Dibromoethane	ND	0.86	ND	0.11	
123-86-4	n-Butyl Acetate	ND	0.86	ND	0.18	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Re Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **3**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00475

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/19/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.9 Final Pressure (psig): 3.8

Canister Dilution Factor: 1.71

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.86	ND	0.18	
127-18-4	**Tetrachloroethene**	**0.91**	0.86	**0.13**	0.13	
108-90-7	Chlorobenzene	ND	0.86	ND	0.19	
100-41-4	Ethylbenzene	ND	0.86	ND	0.20	
179601-23-1	m,p-Xylenes	ND	1.7	ND	0.39	
75-25-2	Bromoform	ND	0.86	ND	0.083	
100-42-5	**Styrene**	**0.94**	0.86	**0.22**	0.20	
95-47-6	o-Xylene	ND	0.86	ND	0.20	
111-84-2	n-Nonane	ND	0.86	ND	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.86	ND	0.12	
98-82-8	Cumene	ND	0.86	ND	0.17	
80-56-8	**alpha-Pinene**	**3.4**	0.86	**0.61**	0.15	
103-65-1	n-Propylbenzene	ND	0.86	ND	0.17	
622-96-8	4-Ethyltoluene	ND	0.86	ND	0.17	
108-67-8	1,3,5-Trimethylbenzene	ND	0.86	ND	0.17	
95-63-6	1,2,4-Trimethylbenzene	ND	0.86	ND	0.17	
100-44-7	Benzyl Chloride	ND	0.86	ND	0.17	
541-73-1	1,3-Dichlorobenzene	ND	0.86	ND	0.14	
106-46-7	1,4-Dichlorobenzene	ND	0.86	ND	0.14	
95-50-1	1,2-Dichlorobenzene	ND	0.86	ND	0.14	
5989-27-5	**d-Limonene**	**1.6**	0.86	**0.29**	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.86	ND	0.088	
120-82-1	1,2,4-Trichlorobenzene	ND	0.86	ND	0.12	
91-20-3	**Naphthalene**	**2.5**	0.86	**0.47**	0.16	
87-68-3	Hexachlorobutadiene	ND	0.86	ND	0.080	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rw Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **4** — CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** — CAS Sample ID: P0802986-004

Test Code: EPA TO-15 — Date Collected: 9/11/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 — Date Received: 9/12/08
Analyst: Simon Cao — Date Analyzed: 9/19/08
Sampling Media: 6.0 L Summa Canister — Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01271

Initial Pressure (psig): -5.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.88

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	**Propene**	**2.5**	0.94	**1.4**	0.55	**M**
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.0**	0.94	**0.41**	0.19	
74-87-3	Chloromethane	ND	0.94	ND	0.46	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.94	ND	0.13	
75-01-4	Vinyl Chloride	ND	0.94	ND	0.37	
106-99-0	1,3-Butadiene	ND	0.94	ND	0.43	
74-83-9	Bromomethane	ND	0.94	ND	0.24	
75-00-3	Chloroethane	ND	0.94	ND	0.36	
64-17-5	**Ethanol**	**110**	9.4	**56**	5.0	
75-05-8	Acetonitrile	ND	0.94	ND	0.56	
107-02-8	**Acrolein**	**1.2**	0.94	**0.52**	0.41	
67-64-1	**Acetone**	**18**	9.4	**7.8**	4.0	**M**
75-69-4	**Trichlorofluoromethane**	**1.2**	0.94	**0.21**	0.17	
67-63-0	**2-Propanol (Isopropyl Alcohol)**	**4.3**	1.9	**1.7**	0.77	
107-13-1	Acrylonitrile	ND	0.94	ND	0.43	
75-35-4	1,1-Dichloroethene	ND	0.94	ND	0.24	
75-09-2	Methylene Chloride	ND	0.94	ND	0.27	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.94	ND	0.30	
76-13-1	Trichlorotrifluoroethane	ND	0.94	ND	0.12	
75-15-0	Carbon Disulfide	ND	0.94	ND	0.30	
156-60-5	trans-1,2-Dichloroethene	ND	0.94	ND	0.24	
75-34-3	1,1-Dichloroethane	ND	0.94	ND	0.23	
1634-04-4	Methyl tert-Butyl Ether	ND	0.94	ND	0.26	
108-05-4	Vinyl Acetate	ND	9.4	ND	2.7	
78-93-3	**2-Butanone (MEK)**	**1.3**	0.94	**0.43**	0.32	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: RG Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **4**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01271

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/19/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.88

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.94	ND	0.24	
141-78-6	**Ethyl Acetate**	**8.1**	1.9	**2.3**	0.52	
110-54-3	n-Hexane	ND	0.94	ND	0.27	
67-66-3	Chloroform	ND	0.94	ND	0.19	
109-99-9	Tetrahydrofuran (THF)	ND	0.94	ND	0.32	
107-06-2	1,2-Dichloroethane	ND	0.94	ND	0.23	
71-55-6	1,1,1-Trichloroethane	ND	0.94	ND	0.17	
71-43-2	Benzene	ND	0.94	ND	0.29	
56-23-5	Carbon Tetrachloride	ND	0.94	ND	0.15	
110-82-7	Cyclohexane	ND	1.9	ND	0.55	
78-87-5	1,2-Dichloropropane	ND	0.94	ND	0.20	
75-27-4	Bromodichloromethane	ND	0.94	ND	0.14	
79-01-6	Trichloroethene	ND	0.94	ND	0.17	
123-91-1	1,4-Dioxane	ND	0.94	ND	0.26	
80-62-6	Methyl Methacrylate	ND	1.9	ND	0.46	
142-82-5	n-Heptane	ND	0.94	ND	0.23	
10061-01-5	cis-1,3-Dichloropropene	ND	0.94	ND	0.21	
108-10-1	4-Methyl-2-pentanone	ND	0.94	ND	0.23	
10061-02-6	trans-1,3-Dichloropropene	ND	0.94	ND	0.21	
79-00-5	1,1,2-Trichloroethane	ND	0.94	ND	0.17	
108-88-3	**Toluene**	**3.7**	0.94	**0.98**	0.25	
591-78-6	2-Hexanone	ND	0.94	ND	0.23	
124-48-1	Dibromochloromethane	ND	0.94	ND	0.11	
106-93-4	1,2-Dibromoethane	ND	0.94	ND	0.12	
123-86-4	n-Butyl Acetate	ND	0.94	ND	0.20	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rcs Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **4**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01271

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/19/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.88

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.94	ND	0.20	
127-18-4	Tetrachloroethene	ND	0.94	ND	0.14	
108-90-7	Chlorobenzene	ND	0.94	ND	0.20	
100-41-4	Ethylbenzene	ND	0.94	ND	0.22	
179601-23-1	m,p-Xylenes	ND	1.9	ND	0.43	
75-25-2	Bromoform	ND	0.94	ND	0.091	
100-42-5	Styrene	ND	0.94	ND	0.22	
95-47-6	o-Xylene	ND	0.94	ND	0.22	
111-84-2	n-Nonane	ND	0.94	ND	0.18	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.94	ND	0.14	
98-82-8	Cumene	ND	0.94	ND	0.19	
80-56-8	**alpha-Pinene**	**2.7**	0.94	**0.48**	0.17	
103-65-1	n-Propylbenzene	ND	0.94	ND	0.19	
622-96-8	4-Ethyltoluene	ND	0.94	ND	0.19	
108-67-8	1,3,5-Trimethylbenzene	ND	0.94	ND	0.19	
95-63-6	1,2,4-Trimethylbenzene	ND	0.94	ND	0.19	
100-44-7	Benzyl Chloride	ND	0.94	ND	0.18	
541-73-1	1,3-Dichlorobenzene	ND	0.94	ND	0.16	
106-46-7	1,4-Dichlorobenzene	ND	0.94	ND	0.16	
95-50-1	1,2-Dichlorobenzene	ND	0.94	ND	0.16	
5989-27-5	**d-Limonene**	**1.8**	0.94	**0.32**	0.17	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.94	ND	0.097	
120-82-1	1,2,4-Trichlorobenzene	ND	0.94	ND	0.13	
91-20-3	**Naphthalene**	**2.1**	0.94	**0.41**	0.18	
87-68-3	Hexachlorobutadiene	ND	0.94	ND	0.088	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: R.C. Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **5** — CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** — CAS Sample ID: P0802986-005

Test Code: EPA TO-15 — Date Collected: 9/11/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 — Date Received: 9/12/08
Analyst: Simon Cao — Date Analyzed: 9/19/08
Sampling Media: 6.0 L Summa Canister — Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01424

Initial Pressure (psig): -5.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.88

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	**Propene**	**1.1**	0.94	**0.64**	0.55	**M**
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.0**	0.94	**0.40**	0.19	
74-87-3	Chloromethane	ND	0.94	ND	0.46	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.94	ND	0.13	
75-01-4	Vinyl Chloride	ND	0.94	ND	0.37	
106-99-0	1,3-Butadiene	ND	0.94	ND	0.43	
74-83-9	Bromomethane	ND	0.94	ND	0.24	
75-00-3	Chloroethane	ND	0.94	ND	0.36	
64-17-5	Ethanol	ND	9.4	ND	5.0	
75-05-8	Acetonitrile	ND	0.94	ND	0.56	
107-02-8	**Acrolein**	**1.5**	0.94	**0.63**	0.41	
67-64-1	**Acetone**	**19**	9.4	**7.8**	4.0	**M**
75-69-4	**Trichlorofluoromethane**	**1.2**	0.94	**0.21**	0.17	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.9	ND	0.77	
107-13-1	Acrylonitrile	ND	0.94	ND	0.43	
75-35-4	1,1-Dichloroethene	ND	0.94	ND	0.24	
75-09-2	Methylene Chloride	ND	0.94	ND	0.27	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.94	ND	0.30	
76-13-1	Trichlorotrifluoroethane	ND	0.94	ND	0.12	
75-15-0	Carbon Disulfide	ND	0.94	ND	0.30	
156-60-5	trans-1,2-Dichloroethene	ND	0.94	ND	0.24	
75-34-3	1,1-Dichloroethane	ND	0.94	ND	0.23	
1634-04-4	Methyl tert-Butyl Ether	ND	0.94	ND	0.26	
108-05-4	Vinyl Acetate	ND	9.4	ND	2.7	
78-93-3	**2-Butanone (MEK)**	**2.5**	0.94	**0.84**	0.32	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Rv Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **5**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01424

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/19/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.88

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.94	ND	0.24	
141-78-6	**Ethyl Acetate**	**1.9**	1.9	**0.53**	0.52	
110-54-3	n-Hexane	ND	0.94	ND	0.27	
67-66-3	Chloroform	ND	0.94	ND	0.19	
109-99-9	Tetrahydrofuran (THF)	ND	0.94	ND	0.32	
107-06-2	1,2-Dichloroethane	ND	0.94	ND	0.23	
71-55-6	1,1,1-Trichloroethane	ND	0.94	ND	0.17	
71-43-2	Benzene	ND	0.94	ND	0.29	
56-23-5	Carbon Tetrachloride	ND	0.94	ND	0.15	
110-82-7	Cyclohexane	ND	1.9	ND	0.55	
78-87-5	1,2-Dichloropropane	ND	0.94	ND	0.20	
75-27-4	Bromodichloromethane	ND	0.94	ND	0.14	
79-01-6	Trichloroethene	ND	0.94	ND	0.17	
123-91-1	1,4-Dioxane	ND	0.94	ND	0.26	
80-62-6	Methyl Methacrylate	ND	1.9	ND	0.46	
142-82-5	n-Heptane	ND	0.94	ND	0.23	
10061-01-5	cis-1,3-Dichloropropene	ND	0.94	ND	0.21	
108-10-1	4-Methyl-2-pentanone	ND	0.94	ND	0.23	
10061-02-6	trans-1,3-Dichloropropene	ND	0.94	ND	0.21	
79-00-5	1,1,2-Trichloroethane	ND	0.94	ND	0.17	
108-88-3	**Toluene**	**3.0**	0.94	**0.79**	0.25	
591-78-6	2-Hexanone	ND	0.94	ND	0.23	
124-48-1	Dibromochloromethane	ND	0.94	ND	0.11	
106-93-4	1,2-Dibromoethane	ND	0.94	ND	0.12	
123-86-4	n-Butyl Acetate	ND	0.94	ND	0.20	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rc Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **5**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01424

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/19/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.88

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.94	ND	0.20	
127-18-4	Tetrachloroethene	ND	0.94	ND	0.14	
108-90-7	Chlorobenzene	ND	0.94	ND	0.20	
100-41-4	Ethylbenzene	ND	0.94	ND	0.22	
179601-23-1	m,p-Xylenes	ND	1.9	ND	0.43	
75-25-2	Bromoform	ND	0.94	ND	0.091	
100-42-5	**Styrene**	**0.96**	0.94	**0.22**	0.22	
95-47-6	o-Xylene	ND	0.94	ND	0.22	
111-84-2	n-Nonane	ND	0.94	ND	0.18	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.94	ND	0.14	
98-82-8	Cumene	ND	0.94	ND	0.19	
80-56-8	alpha-Pinene	ND	0.94	ND	0.17	
103-65-1	n-Propylbenzene	ND	0.94	ND	0.19	
622-96-8	4-Ethyltoluene	ND	0.94	ND	0.19	
108-67-8	1,3,5-Trimethylbenzene	ND	0.94	ND	0.19	
95-63-6	1,2,4-Trimethylbenzene	ND	0.94	ND	0.19	
100-44-7	Benzyl Chloride	ND	0.94	ND	0.18	
541-73-1	1,3-Dichlorobenzene	ND	0.94	ND	0.16	
106-46-7	1,4-Dichlorobenzene	ND	0.94	ND	0.16	
95-50-1	1,2-Dichlorobenzene	ND	0.94	ND	0.16	
5989-27-5	d-Limonene	ND	0.94	ND	0.17	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.94	ND	0.097	
120-82-1	1,2,4-Trichlorobenzene	ND	0.94	ND	0.13	
91-20-3	Naphthalene	ND	0.94	ND	0.18	
87-68-3	Hexachlorobutadiene	ND	0.94	ND	0.088	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rec Date: 9/29/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **6** — CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** — CAS Sample ID: P0802986-006

Test Code: EPA TO-15 — Date Collected: 9/11/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 — Date Received: 9/12/08
Analyst: Simon Cao — Date Analyzed: 9/19/08
Sampling Media: 6.0 L Summa Canister — Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00435

Initial Pressure (psig): -3.5 Final Pressure (psig): 3.8

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.83	ND	0.48	
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.0**	0.83	**0.40**	0.17	
74-87-3	Chloromethane	ND	0.83	ND	0.40	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.83	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.83	ND	0.32	
106-99-0	1,3-Butadiene	ND	0.83	ND	0.37	
74-83-9	Bromomethane	ND	0.83	ND	0.21	
75-00-3	Chloroethane	ND	0.83	ND	0.31	
64-17-5	Ethanol	ND	8.3	ND	4.4	
75-05-8	Acetonitrile	ND	0.83	ND	0.49	
107-02-8	**Acrolein**	**0.90**	0.83	**0.39**	0.36	
67-64-1	**Acetone**	**10**	8.3	**4.3**	3.5	**M**
75-69-4	**Trichlorofluoromethane**	**1.1**	0.83	**0.19**	0.15	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.7	ND	0.67	
107-13-1	Acrylonitrile	ND	0.83	ND	0.38	
75-35-4	1,1-Dichloroethene	ND	0.83	ND	0.21	
75-09-2	Methylene Chloride	ND	0.83	ND	0.24	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.83	ND	0.26	
76-13-1	Trichlorotrifluoroethane	ND	0.83	ND	0.11	
75-15-0	Carbon Disulfide	ND	0.83	ND	0.27	
156-60-5	trans-1,2-Dichloroethene	ND	0.83	ND	0.21	
75-34-3	1,1-Dichloroethane	ND	0.83	ND	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	0.83	ND	0.23	
108-05-4	Vinyl Acetate	ND	8.3	ND	2.3	
78-93-3	**2-Butanone (MEK)**	**1.1**	0.83	**0.37**	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Rc Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **6**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00435

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/19/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.5 Final Pressure (psig): 3.8

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.83	ND	0.21	
141-78-6	**Ethyl Acetate**	**2.8**	1.7	**0.77**	0.46	
110-54-3	n-Hexane	ND	0.83	ND	0.23	
67-66-3	Chloroform	ND	0.83	ND	0.17	
109-99-9	Tetrahydrofuran (THF)	ND	0.83	ND	0.28	
107-06-2	1,2-Dichloroethane	ND	0.83	ND	0.20	
71-55-6	1,1,1-Trichloroethane	ND	0.83	ND	0.15	
71-43-2	**Benzene**	**0.94**	0.83	**0.29**	0.26	
56-23-5	Carbon Tetrachloride	ND	0.83	ND	0.13	
110-82-7	Cyclohexane	ND	1.7	ND	0.48	
78-87-5	1,2-Dichloropropane	ND	0.83	ND	0.18	
75-27-4	Bromodichloromethane	ND	0.83	ND	0.12	
79-01-6	Trichloroethene	ND	0.83	ND	0.15	
123-91-1	1,4-Dioxane	ND	0.83	ND	0.23	
80-62-6	Methyl Methacrylate	ND	1.7	ND	0.40	
142-82-5	n-Heptane	ND	0.83	ND	0.20	
10061-01-5	cis-1,3-Dichloropropene	ND	0.83	ND	0.18	
108-10-1	4-Methyl-2-pentanone	ND	0.83	ND	0.20	
10061-02-6	trans-1,3-Dichloropropene	ND	0.83	ND	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.83	ND	0.15	
108-88-3	**Toluene**	**2.9**	0.83	**0.77**	0.22	
591-78-6	2-Hexanone	ND	0.83	ND	0.20	
124-48-1	Dibromochloromethane	ND	0.83	ND	0.097	
106-93-4	1,2-Dibromoethane	ND	0.83	ND	0.11	
123-86-4	n-Butyl Acetate	ND	0.83	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: R.. Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **6**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00435

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/19/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.5 Final Pressure (psig): 3.8

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.83	ND	0.18	
127-18-4	Tetrachloroethene	ND	0.83	ND	0.12	
108-90-7	Chlorobenzene	ND	0.83	ND	0.18	
100-41-4	Ethylbenzene	ND	0.83	ND	0.19	
179601-23-1	m,p-Xylenes	ND	1.7	ND	0.38	
75-25-2	Bromoform	ND	0.83	ND	0.080	
100-42-5	Styrene	ND	0.83	ND	0.19	
95-47-6	o-Xylene	ND	0.83	ND	0.19	
111-84-2	n-Nonane	ND	0.83	ND	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.83	ND	0.12	
98-82-8	Cumene	ND	0.83	ND	0.17	
80-56-8	**alpha-Pinene**	**1.0**	0.83	**0.18**	0.15	
103-65-1	n-Propylbenzene	ND	0.83	ND	0.17	
622-96-8	4-Ethyltoluene	ND	0.83	ND	0.17	
108-67-8	1,3,5-Trimethylbenzene	ND	0.83	ND	0.17	
95-63-6	1,2,4-Trimethylbenzene	ND	0.83	ND	0.17	
100-44-7	Benzyl Chloride	ND	0.83	ND	0.16	
541-73-1	1,3-Dichlorobenzene	ND	0.83	ND	0.14	
106-46-7	1,4-Dichlorobenzene	ND	0.83	ND	0.14	
95-50-1	1,2-Dichlorobenzene	ND	0.83	ND	0.14	
5989-27-5	d-Limonene	ND	0.83	ND	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.83	ND	0.085	
120-82-1	1,2,4-Trichlorobenzene	ND	0.83	ND	0.11	
91-20-3	Naphthalene	ND	0.83	ND	0.16	
87-68-3	Hexachlorobutadiene	ND	0.83	ND	0.077	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RW Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **7**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00594

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/19/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.7 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.84

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	**Propene**	**1.3**	0.92	**0.77**	0.53	**M**
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**1.9**	0.92	**0.39**	0.19	
74-87-3	Chloromethane	ND	0.92	ND	0.45	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.92	ND	0.13	
75-01-4	Vinyl Chloride	ND	0.92	ND	0.36	
106-99-0	1,3-Butadiene	ND	0.92	ND	0.42	
74-83-9	Bromomethane	ND	0.92	ND	0.24	
75-00-3	Chloroethane	ND	0.92	ND	0.35	
64-17-5	Ethanol	ND	9.2	ND	4.9	
75-05-8	Acetonitrile	ND	0.92	ND	0.55	
107-02-8	Acrolein	ND	0.92	ND	0.40	
67-64-1	**Acetone**	**19**	9.2	**8.0**	3.9	**M**
75-69-4	**Trichlorofluoromethane**	**1.1**	0.92	**0.19**	0.16	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.8	ND	0.75	
107-13-1	Acrylonitrile	ND	0.92	ND	0.42	
75-35-4	1,1-Dichloroethene	ND	0.92	ND	0.23	
75-09-2	Methylene Chloride	ND	0.92	ND	0.26	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.92	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	0.92	ND	0.12	
75-15-0	Carbon Disulfide	ND	0.92	ND	0.30	
156-60-5	trans-1,2-Dichloroethene	ND	0.92	ND	0.23	
75-34-3	1,1-Dichloroethane	ND	0.92	ND	0.23	
1634-04-4	Methyl tert-Butyl Ether	ND	0.92	ND	0.26	
108-05-4	Vinyl Acetate	ND	9.2	ND	2.6	
78-93-3	**2-Butanone (MEK)**	**1.1**	0.92	**0.36**	0.31	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Rec Date: 9/29/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **7**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00594

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/19/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.7 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.84

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.92	ND	0.23	
141-78-6	Ethyl Acetate	ND	1.8	ND	0.51	
110-54-3	n-Hexane	ND	0.92	ND	0.26	
67-66-3	Chloroform	ND	0.92	ND	0.19	
109-99-9	Tetrahydrofuran (THF)	ND	0.92	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	0.92	ND	0.23	
71-55-6	1,1,1-Trichloroethane	ND	0.92	ND	0.17	
71-43-2	Benzene	ND	0.92	ND	0.29	
56-23-5	Carbon Tetrachloride	ND	0.92	ND	0.15	
110-82-7	Cyclohexane	ND	1.8	ND	0.53	
78-87-5	1,2-Dichloropropane	ND	0.92	ND	0.20	
75-27-4	Bromodichloromethane	ND	0.92	ND	0.14	
79-01-6	Trichloroethene	ND	0.92	ND	0.17	
123-91-1	1,4-Dioxane	ND	0.92	ND	0.26	
80-62-6	Methyl Methacrylate	ND	1.8	ND	0.45	
142-82-5	n-Heptane	ND	0.92	ND	0.22	
10061-01-5	cis-1,3-Dichloropropene	ND	0.92	ND	0.20	
108-10-1	4-Methyl-2-pentanone	ND	0.92	ND	0.22	
10061-02-6	trans-1,3-Dichloropropene	ND	0.92	ND	0.20	
79-00-5	1,1,2-Trichloroethane	ND	0.92	ND	0.17	
108-88-3	**Toluene**	**3.6**	0.92	**0.95**	0.24	
591-78-6	2-Hexanone	ND	0.92	ND	0.22	
124-48-1	Dibromochloromethane	ND	0.92	ND	0.11	
106-93-4	1,2-Dibromoethane	ND	0.92	ND	0.12	
123-86-4	n-Butyl Acetate	ND	0.92	ND	0.19	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Re Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **7**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00594

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/19/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.7 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.84

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.92	ND	0.20	
127-18-4	Tetrachloroethene	ND	0.92	ND	0.14	
108-90-7	Chlorobenzene	ND	0.92	ND	0.20	
100-41-4	Ethylbenzene	ND	0.92	ND	0.21	
179601-23-1	m,p-Xylenes	ND	1.8	ND	0.42	
75-25-2	Bromoform	ND	0.92	ND	0.089	
100-42-5	Styrene	ND	0.92	ND	0.22	
95-47-6	o-Xylene	ND	0.92	ND	0.21	
111-84-2	n-Nonane	ND	0.92	ND	0.18	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.92	ND	0.13	
98-82-8	Cumene	ND	0.92	ND	0.19	
80-56-8	alpha-Pinene	ND	0.92	ND	0.17	
103-65-1	n-Propylbenzene	ND	0.92	ND	0.19	
622-96-8	4-Ethyltoluene	ND	0.92	ND	0.19	
108-67-8	1,3,5-Trimethylbenzene	ND	0.92	ND	0.19	
95-63-6	1,2,4-Trimethylbenzene	ND	0.92	ND	0.19	
100-44-7	Benzyl Chloride	ND	0.92	ND	0.18	
541-73-1	1,3-Dichlorobenzene	ND	0.92	ND	0.15	
106-46-7	1,4-Dichlorobenzene	ND	0.92	ND	0.15	
95-50-1	1,2-Dichlorobenzene	ND	0.92	ND	0.15	
5989-27-5	**d-Limonene**	**1.1**	0.92	**0.19**	0.17	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.92	ND	0.095	
120-82-1	1,2,4-Trichlorobenzene	ND	0.92	ND	0.12	
91-20-3	Naphthalene	ND	0.92	ND	0.18	
87-68-3	Hexachlorobutadiene	ND	0.92	ND	0.086	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RC Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **8** — CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** — CAS Sample ID: P0802986-008

Test Code: EPA TO-15 — Date Collected: 9/11/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 — Date Received: 9/12/08
Analyst: Simon Cao — Date Analyzed: 9/20/08
Sampling Media: 6.0 L Summa Canister — Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01042

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	**Propene**	**2.9**	0.84	**1.7**	0.49	**M**
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.1**	0.84	**0.42**	0.17	
74-87-3	Chloromethane	ND	0.84	ND	0.40	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.84	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.84	ND	0.33	
106-99-0	1,3-Butadiene	ND	0.84	ND	0.38	
74-83-9	Bromomethane	ND	0.84	ND	0.22	
75-00-3	Chloroethane	ND	0.84	ND	0.32	
64-17-5	**Ethanol**	**25**	8.4	**13**	4.4	
75-05-8	Acetonitrile	ND	0.84	ND	0.50	
107-02-8	**Acrolein**	**1.0**	0.84	**0.45**	0.36	
67-64-1	**Acetone**	**14**	8.4	**6.0**	3.5	**M**
75-69-4	**Trichlorofluoromethane**	**1.1**	0.84	**0.19**	0.15	
67-63-0	**2-Propanol (Isopropyl Alcohol)**	**5.3**	1.7	**2.1**	0.68	
107-13-1	Acrylonitrile	ND	0.84	ND	0.38	
75-35-4	1,1-Dichloroethene	ND	0.84	ND	0.21	
75-09-2	Methylene Chloride	ND	0.84	ND	0.24	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.84	ND	0.27	
76-13-1	Trichlorotrifluoroethane	ND	0.84	ND	0.11	
75-15-0	Carbon Disulfide	ND	0.84	ND	0.27	
156-60-5	trans-1,2-Dichloroethene	ND	0.84	ND	0.21	
75-34-3	1,1-Dichloroethane	ND	0.84	ND	0.21	
1634-04-4	Methyl tert-Butyl Ether	ND	0.84	ND	0.23	
108-05-4	Vinyl Acetate	ND	8.4	ND	2.4	
78-93-3	**2-Butanone (MEK)**	**1.6**	0.84	**0.54**	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Rw Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **8**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01042

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/20/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.84	ND	0.21	
141-78-6	**Ethyl Acetate**	**7.7**	1.7	**2.1**	0.46	
110-54-3	n-Hexane	ND	0.84	ND	0.24	
67-66-3	Chloroform	ND	0.84	ND	0.17	
109-99-9	Tetrahydrofuran (THF)	ND	0.84	ND	0.28	
107-06-2	1,2-Dichloroethane	ND	0.84	ND	0.21	
71-55-6	1,1,1-Trichloroethane	ND	0.84	ND	0.15	
71-43-2	**Benzene**	**0.84**	0.84	**0.26**	0.26	
56-23-5	Carbon Tetrachloride	ND	0.84	ND	0.13	
110-82-7	**Cyclohexane**	**4.0**	1.7	**1.2**	0.49	
78-87-5	1,2-Dichloropropane	ND	0.84	ND	0.18	
75-27-4	Bromodichloromethane	ND	0.84	ND	0.12	
79-01-6	**Trichloroethene**	**2.5**	0.84	**0.46**	0.16	
123-91-1	1,4-Dioxane	ND	0.84	ND	0.23	
80-62-6	Methyl Methacrylate	ND	1.7	ND	0.41	
142-82-5	n-Heptane	ND	0.84	ND	0.20	
10061-01-5	cis-1,3-Dichloropropene	ND	0.84	ND	0.18	
108-10-1	4-Methyl-2-pentanone	ND	0.84	ND	0.20	
10061-02-6	trans-1,3-Dichloropropene	ND	0.84	ND	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.84	ND	0.15	
108-88-3	**Toluene**	**5.4**	0.84	**1.4**	0.22	
591-78-6	2-Hexanone	ND	0.84	ND	0.20	
124-48-1	Dibromochloromethane	ND	0.84	ND	0.098	
106-93-4	1,2-Dibromoethane	ND	0.84	ND	0.11	
123-86-4	n-Butyl Acetate	ND	0.84	ND	0.18	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rev Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **8**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01042

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/20/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.84	ND	0.18	
127-18-4	**Tetrachloroethene**	**0.94**	0.84	**0.14**	0.12	
108-90-7	Chlorobenzene	ND	0.84	ND	0.18	
100-41-4	**Ethylbenzene**	**1.8**	0.84	**0.42**	0.19	
179601-23-1	**m,p-Xylenes**	**2.4**	1.7	**0.56**	0.38	
75-25-2	Bromoform	ND	0.84	ND	0.081	
100-42-5	**Styrene**	**2.1**	0.84	**0.50**	0.20	
95-47-6	**o-Xylene**	**0.98**	0.84	**0.23**	0.19	
111-84-2	n-Nonane	ND	0.84	ND	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.84	ND	0.12	
98-82-8	Cumene	ND	0.84	ND	0.17	
80-56-8	**alpha-Pinene**	**1.9**	0.84	**0.35**	0.15	
103-65-1	n-Propylbenzene	ND	0.84	ND	0.17	
622-96-8	4-Ethyltoluene	ND	0.84	ND	0.17	
108-67-8	1,3,5-Trimethylbenzene	ND	0.84	ND	0.17	
95-63-6	1,2,4-Trimethylbenzene	ND	0.84	ND	0.17	
100-44-7	Benzyl Chloride	ND	0.84	ND	0.16	
541-73-1	1,3-Dichlorobenzene	ND	0.84	ND	0.14	
106-46-7	1,4-Dichlorobenzene	ND	0.84	ND	0.14	
95-50-1	1,2-Dichlorobenzene	ND	0.84	ND	0.14	
5989-27-5	**d-Limonene**	**2.2**	0.84	**0.39**	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.84	ND	0.086	
120-82-1	1,2,4-Trichlorobenzene	ND	0.84	ND	0.11	
91-20-3	Naphthalene	ND	0.84	ND	0.16	
87-68-3	Hexachlorobutadiene	ND	0.84	ND	0.078	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **9** — CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** — CAS Sample ID: P0802986-009

Test Code: EPA TO-15 — Date Collected: 9/11/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 — Date Received: 9/12/08
Analyst: Simon Cao — Date Analyzed: 9/19/08
Sampling Media: 6.0 L Summa Canister — Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01315

Initial Pressure (psig): -6.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 2.19

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	**Propene**	**2.3**	1.1	**1.3**	0.64	**M**
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.0**	1.1	**0.40**	0.22	
74-87-3	Chloromethane	ND	1.1	ND	0.53	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	ND	0.16	
75-01-4	Vinyl Chloride	ND	1.1	ND	0.43	
106-99-0	1,3-Butadiene	ND	1.1	ND	0.50	
74-83-9	Bromomethane	ND	1.1	ND	0.28	
75-00-3	Chloroethane	ND	1.1	ND	0.42	
64-17-5	**Ethanol**	**75**	11	**40**	5.8	
75-05-8	Acetonitrile	ND	1.1	ND	0.65	
107-02-8	**Acrolein**	**1.5**	1.1	**0.64**	0.48	
67-64-1	**Acetone**	**23**	11	**9.5**	4.6	**M**
75-69-4	**Trichlorofluoromethane**	**1.2**	1.1	**0.21**	0.19	
67-63-0	**2-Propanol (Isopropyl Alcohol)**	**4.3**	2.2	**1.7**	0.89	
107-13-1	Acrylonitrile	ND	1.1	ND	0.50	
75-35-4	1,1-Dichloroethene	ND	1.1	ND	0.28	
75-09-2	**Methylene Chloride**	**6.2**	1.1	**1.8**	0.32	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.1	ND	0.35	
76-13-1	Trichlorotrifluoroethane	ND	1.1	ND	0.14	
75-15-0	Carbon Disulfide	ND	1.1	ND	0.35	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	ND	0.28	
75-34-3	1,1-Dichloroethane	ND	1.1	ND	0.27	
1634-04-4	Methyl tert-Butyl Ether	ND	1.1	ND	0.30	
108-05-4	Vinyl Acetate	ND	11	ND	3.1	
78-93-3	**2-Butanone (MEK)**	**2.6**	1.1	**0.88**	0.37	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: R. Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **9** CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** CAS Sample ID: P0802986-009

Test Code: EPA TO-15 Date Collected: 9/11/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 9/12/08
Analyst: Simon Cao Date Analyzed: 9/19/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01315

Initial Pressure (psig): -6.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 2.19

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	1.1	ND	0.28	
141-78-6	**Ethyl Acetate**	**14**	2.2	**3.8**	0.61	
110-54-3	n-Hexane	ND	1.1	ND	0.31	
67-66-3	Chloroform	ND	1.1	ND	0.22	
109-99-9	Tetrahydrofuran (THF)	ND	1.1	ND	0.37	
107-06-2	1,2-Dichloroethane	ND	1.1	ND	0.27	
71-55-6	1,1,1-Trichloroethane	ND	1.1	ND	0.20	
71-43-2	Benzene	ND	1.1	ND	0.34	
56-23-5	Carbon Tetrachloride	ND	1.1	ND	0.17	
110-82-7	Cyclohexane	ND	2.2	ND	0.64	
78-87-5	1,2-Dichloropropane	ND	1.1	ND	0.24	
75-27-4	Bromodichloromethane	ND	1.1	ND	0.16	
79-01-6	Trichloroethene	ND	1.1	ND	0.20	
123-91-1	1,4-Dioxane	ND	1.1	ND	0.30	
80-62-6	Methyl Methacrylate	ND	2.2	ND	0.54	
142-82-5	n-Heptane	ND	1.1	ND	0.27	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	ND	0.24	
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.27	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	ND	0.24	
79-00-5	1,1,2-Trichloroethane	ND	1.1	ND	0.20	
108-88-3	**Toluene**	**3.4**	1.1	**0.91**	0.29	
591-78-6	2-Hexanone	ND	1.1	ND	0.27	
124-48-1	Dibromochloromethane	ND	1.1	ND	0.13	
106-93-4	1,2-Dibromoethane	ND	1.1	ND	0.14	
123-86-4	n-Butyl Acetate	ND	1.1	ND	0.23	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rc Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **9**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-009

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01315

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/19/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 2.19

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	1.1	ND	0.23	
127-18-4	Tetrachloroethene	ND	1.1	ND	0.16	
108-90-7	Chlorobenzene	ND	1.1	ND	0.24	
100-41-4	Ethylbenzene	ND	1.1	ND	0.25	
179601-23-1	m,p-Xylenes	ND	2.2	ND	0.50	
75-25-2	Bromoform	ND	1.1	ND	0.11	
100-42-5	Styrene	ND	1.1	ND	0.26	
95-47-6	o-Xylene	ND	1.1	ND	0.25	
111-84-2	n-Nonane	ND	1.1	ND	0.21	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.1	ND	0.16	
98-82-8	Cumene	ND	1.1	ND	0.22	
80-56-8	**alpha-Pinene**	**2.4**	1.1	**0.42**	0.20	
103-65-1	n-Propylbenzene	ND	1.1	ND	0.22	
622-96-8	4-Ethyltoluene	ND	1.1	ND	0.22	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	ND	0.22	
95-63-6	1,2,4-Trimethylbenzene	ND	1.1	ND	0.22	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	1.1	ND	0.18	
106-46-7	1,4-Dichlorobenzene	ND	1.1	ND	0.18	
95-50-1	1,2-Dichlorobenzene	ND	1.1	ND	0.18	
5989-27-5	**d-Limonene**	**1.4**	1.1	**0.25**	0.20	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	ND	0.11	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	ND	0.15	
91-20-3	**Naphthalene**	**1.6**	1.1	**0.30**	0.21	
87-68-3	Hexachlorobutadiene	ND	1.1	ND	0.10	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RL Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **10** — CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** — CAS Sample ID: P0802986-010

Test Code: EPA TO-15 — Date Collected: 9/11/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 — Date Received: 9/12/08
Analyst: Simon Cao — Date Analyzed: 9/20/08
Sampling Media: 6.0 L Summa Canister — Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00615

Initial Pressure (psig): -5.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.98

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	**Propene**	**1.1**	0.99	**0.61**	0.58	**M**
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.0**	0.99	**0.40**	0.20	
74-87-3	Chloromethane	ND	0.99	ND	0.48	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.99	ND	0.14	
75-01-4	Vinyl Chloride	ND	0.99	ND	0.39	
106-99-0	1,3-Butadiene	ND	0.99	ND	0.45	
74-83-9	Bromomethane	ND	0.99	ND	0.26	
75-00-3	Chloroethane	ND	0.99	ND	0.38	
64-17-5	Ethanol	ND	9.9	ND	5.3	
75-05-8	Acetonitrile	ND	0.99	ND	0.59	
107-02-8	Acrolein	ND	0.99	ND	0.43	
67-64-1	**Acetone**	**14**	9.9	**6.0**	4.2	**M**
75-69-4	**Trichlorofluoromethane**	**1.1**	0.99	**0.20**	0.18	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	2.0	ND	0.81	
107-13-1	Acrylonitrile	ND	0.99	ND	0.46	
75-35-4	1,1-Dichloroethene	ND	0.99	ND	0.25	
75-09-2	Methylene Chloride	ND	0.99	ND	0.29	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.99	ND	0.32	
76-13-1	Trichlorotrifluoroethane	ND	0.99	ND	0.13	
75-15-0	Carbon Disulfide	ND	0.99	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	0.99	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	0.99	ND	0.24	
1634-04-4	Methyl tert-Butyl Ether	ND	0.99	ND	0.27	
108-05-4	Vinyl Acetate	ND	9.9	ND	2.8	
78-93-3	**2-Butanone (MEK)**	**2.7**	0.99	**0.90**	0.34	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: RG Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **10** — CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** — CAS Sample ID: P0802986-010

Test Code: EPA TO-15 — Date Collected: 9/11/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 — Date Received: 9/12/08
Analyst: Simon Cao — Date Analyzed: 9/20/08
Sampling Media: 6.0 L Summa Canister — Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00615

Initial Pressure (psig): -5.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.98

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.99	ND	0.25	
141-78-6	**Ethyl Acetate**	**2.4**	2.0	**0.67**	0.55	
110-54-3	n-Hexane	ND	0.99	ND	0.28	
67-66-3	Chloroform	ND	0.99	ND	0.20	
109-99-9	Tetrahydrofuran (THF)	ND	0.99	ND	0.34	
107-06-2	1,2-Dichloroethane	ND	0.99	ND	0.24	
71-55-6	1,1,1-Trichloroethane	ND	0.99	ND	0.18	
71-43-2	Benzene	ND	0.99	ND	0.31	
56-23-5	Carbon Tetrachloride	ND	0.99	ND	0.16	
110-82-7	Cyclohexane	ND	2.0	ND	0.58	
78-87-5	1,2-Dichloropropane	ND	0.99	ND	0.21	
75-27-4	Bromodichloromethane	ND	0.99	ND	0.15	
79-01-6	Trichloroethene	ND	0.99	ND	0.18	
123-91-1	1,4-Dioxane	ND	0.99	ND	0.27	
80-62-6	Methyl Methacrylate	ND	2.0	ND	0.48	
142-82-5	n-Heptane	ND	0.99	ND	0.24	
10061-01-5	cis-1,3-Dichloropropene	ND	0.99	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	0.99	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	0.99	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	0.99	ND	0.18	
108-88-3	**Toluene**	**3.6**	0.99	**0.97**	0.26	
591-78-6	2-Hexanone	ND	0.99	ND	0.24	
124-48-1	Dibromochloromethane	ND	0.99	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	0.99	ND	0.13	
123-86-4	n-Butyl Acetate	ND	0.99	ND	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RL Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **10**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00615

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/20/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.98

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.99	ND	0.21	
127-18-4	Tetrachloroethene	ND	0.99	ND	0.15	
108-90-7	Chlorobenzene	ND	0.99	ND	0.22	
100-41-4	Ethylbenzene	ND	0.99	ND	0.23	
179601-23-1	m,p-Xylenes	ND	2.0	ND	0.46	
75-25-2	Bromoform	ND	0.99	ND	0.096	
100-42-5	Styrene	ND	0.99	ND	0.23	
95-47-6	o-Xylene	ND	0.99	ND	0.23	
111-84-2	n-Nonane	ND	0.99	ND	0.19	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.99	ND	0.14	
98-82-8	Cumene	ND	0.99	ND	0.20	
80-56-8	alpha-Pinene	ND	0.99	ND	0.18	
103-65-1	n-Propylbenzene	ND	0.99	ND	0.20	
622-96-8	4-Ethyltoluene	ND	0.99	ND	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	0.99	ND	0.20	
95-63-6	1,2,4-Trimethylbenzene	ND	0.99	ND	0.20	
100-44-7	Benzyl Chloride	ND	0.99	ND	0.19	
541-73-1	1,3-Dichlorobenzene	ND	0.99	ND	0.16	
106-46-7	1,4-Dichlorobenzene	ND	0.99	ND	0.16	
95-50-1	1,2-Dichlorobenzene	ND	0.99	ND	0.16	
5989-27-5	d-Limonene	ND	0.99	ND	0.18	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.99	ND	0.10	
120-82-1	1,2,4-Trichlorobenzene	ND	0.99	ND	0.13	
91-20-3	Naphthalene	ND	0.99	ND	0.19	
87-68-3	Hexachlorobutadiene	ND	0.99	ND	0.093	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Ro Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **11**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01051

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/20/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.50	ND	0.24	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.50	ND	0.20	
106-99-0	1,3-Butadiene	ND	0.50	ND	0.23	
74-83-9	Bromomethane	ND	0.50	ND	0.13	
75-00-3	Chloroethane	ND	0.50	ND	0.19	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	0.50	ND	0.22	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.50	ND	0.089	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.41	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.50	ND	0.13	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.50	ND	0.16	
76-13-1	Trichlorotrifluoroethane	ND	0.50	ND	0.065	
75-15-0	Carbon Disulfide	ND	0.50	ND	0.16	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	ND	0.13	
75-34-3	1,1-Dichloroethane	ND	0.50	ND	0.12	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	ND	0.14	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	0.50	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **11**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01051

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/20/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	ND	0.13	
141-78-6	Ethyl Acetate	ND	1.0	ND	0.28	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.50	ND	0.10	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.50	ND	0.12	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ND	0.092	
71-43-2	Benzene	ND	0.50	ND	0.16	
56-23-5	Carbon Tetrachloride	ND	0.50	ND	0.080	
110-82-7	Cyclohexane	ND	1.0	ND	0.29	
78-87-5	1,2-Dichloropropane	ND	0.50	ND	0.11	
75-27-4	Bromodichloromethane	ND	0.50	ND	0.075	
79-01-6	Trichloroethene	ND	0.50	ND	0.093	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	1.0	ND	0.24	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ND	0.092	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.50	ND	0.059	
106-93-4	1,2-Dibromoethane	ND	0.50	ND	0.065	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Ro Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **11**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01051

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/20/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.50	ND	0.074	
108-90-7	Chlorobenzene	ND	0.50	ND	0.11	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	1.0	ND	0.23	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ND	0.073	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.50	ND	0.097	
541-73-1	1,3-Dichlorobenzene	ND	0.50	ND	0.083	
106-46-7	1,4-Dichlorobenzene	ND	0.50	ND	0.083	
95-50-1	1,2-Dichlorobenzene	ND	0.50	ND	0.083	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **Method Blank** — CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** — CAS Sample ID: P080919-MB

Test Code: EPA TO-15 — Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 — Date Received: NA
Analyst: Simon Cao — Date Analyzed: 9/19/08
Sampling Media: 6.0 L Summa Canister — Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.50	ND	0.24	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.50	ND	0.20	
106-99-0	1,3-Butadiene	ND	0.50	ND	0.23	
74-83-9	Bromomethane	ND	0.50	ND	0.13	
75-00-3	Chloroethane	ND	0.50	ND	0.19	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	0.50	ND	0.22	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.50	ND	0.089	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.41	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.50	ND	0.13	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.50	ND	0.16	
76-13-1	Trichlorotrifluoroethane	ND	0.50	ND	0.065	
75-15-0	Carbon Disulfide	ND	0.50	ND	0.16	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	ND	0.13	
75-34-3	1,1-Dichloroethane	ND	0.50	ND	0.12	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	ND	0.14	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	0.50	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: R. Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **Method Blank** — CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** — CAS Sample ID: P080919-MB

Test Code: EPA TO-15 — Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 — Date Received: NA
Analyst: Simon Cao — Date Analyzed: 9/19/08
Sampling Media: 6.0 L Summa Canister — Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.50	ND	0.13	
141-78-6	Ethyl Acetate	ND	1.0	ND	0.28	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.50	ND	0.10	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.50	ND	0.12	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ND	0.092	
71-43-2	Benzene	ND	0.50	ND	0.16	
56-23-5	Carbon Tetrachloride	ND	0.50	ND	0.080	
110-82-7	Cyclohexane	ND	1.0	ND	0.29	
78-87-5	1,2-Dichloropropane	ND	0.50	ND	0.11	
75-27-4	Bromodichloromethane	ND	0.50	ND	0.075	
79-01-6	Trichloroethene	ND	0.50	ND	0.093	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	1.0	ND	0.24	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ND	0.092	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.50	ND	0.059	
106-93-4	1,2-Dibromoethane	ND	0.50	ND	0.065	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Re Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **Method Blank**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P080919-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/19/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.50	ND	0.074	
108-90-7	Chlorobenzene	ND	0.50	ND	0.11	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	1.0	ND	0.23	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ND	0.073	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.50	ND	0.097	
541-73-1	1,3-Dichlorobenzene	ND	0.50	ND	0.083	
106-46-7	1,4-Dichlorobenzene	ND	0.50	ND	0.083	
95-50-1	1,2-Dichlorobenzene	ND	0.50	ND	0.083	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rc Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

SURROGATE SPIKE RECOVERY RESULTS

Client: **AMEC Earth & Environmental, Inc.**
Client Project ID: **Rite Aid Charlotte, NC** CAS Project ID: P0802986

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date(s) Collected: 9/11/08
Analyst: Simon Cao Date(s) Received: 9/12/08
Sampling Media: 6.0 L Summa Canister(s) Date(s) Analyzed: 9/19/08
Test Notes:

Client Sample ID	CAS Sample ID	1,2-Dichloroethane-d4 % Recovered	1,2-Dichloroethane-d4 Acceptance Limits	Toluene-d8 % Recovered	Toluene-d8 Acceptance Limits	Bromofluorobenzene % Recovered	Bromofluorobenzene Acceptance Limits	Data Qualifier
Method Blank	P080919-MB	**92**	70-130	**107**	70-130	**102**	70-130	
Lab Control Sample	P080919-LCS	**91**	70-130	**108**	70-130	**106**	70-130	
1	P0802986-001	**90**	70-130	**106**	70-130	**103**	70-130	
1	P0802986-001DUP	**91**	70-130	**107**	70-130	**104**	70-130	
2	P0802986-002	**88**	70-130	**105**	70-130	**105**	70-130	
3	P0802986-003	**90**	70-130	**106**	70-130	**104**	70-130	
4	P0802986-004	**89**	70-130	**106**	70-130	**104**	70-130	
5	P0802986-005	**89**	70-130	**106**	70-130	**103**	70-130	
6	P0802986-006	**89**	70-130	**107**	70-130	**103**	70-130	
7	P0802986-007	**89**	70-130	**106**	70-130	**104**	70-130	
8	P0802986-008	**91**	70-130	**106**	70-130	**104**	70-130	
9	P0802986-009	**90**	70-130	**106**	70-130	**104**	70-130	
10	P0802986-010	**91**	70-130	**107**	70-130	**104**	70-130	
11	P0802986-011	**89**	70-130	**106**	70-130	**104**	70-130	

Verified By: Rc Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **Lab Control Sample** CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** CAS Sample ID: P080919-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: NA
Analyst: Simon Cao Date Analyzed: 9/19/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: NA Liter(s)
Test Notes:

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
115-07-1	Propene	26.3	**23.8**	**90**	62-124	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.3	**20.7**	**79**	69-117	
74-87-3	Chloromethane	25.3	**20.3**	**80**	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.8	**22.7**	**85**	58-133	
75-01-4	Vinyl Chloride	25.5	**20.3**	**80**	61-127	
106-99-0	1,3-Butadiene	30.0	**25.2**	**84**	67-127	
74-83-9	Bromomethane	25.8	**21.2**	**82**	67-124	
75-00-3	Chloroethane	25.8	**20.3**	**79**	69-123	
64-17-5	Ethanol	133	**95.4**	**72**	56-137	
75-05-8	Acetonitrile	26.3	**19.1**	**73**	62-133	
107-02-8	Acrolein	27.3	**22.1**	**81**	68-124	
67-64-1	Acetone	137	**106**	**77**	63-116	
75-69-4	Trichlorofluoromethane	26.3	**22.2**	**84**	71-120	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	**31.4**	**65**	51-127	
107-13-1	Acrylonitrile	26.8	**21.9**	**82**	74-129	
75-35-4	1,1-Dichloroethene	27.5	**22.2**	**81**	77-116	
75-09-2	Methylene Chloride	26.5	**19.9**	**75**	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	**21.0**	**78**	75-127	
76-13-1	Trichlorotrifluoroethane	27.5	**23.8**	**87**	63-129	
75-15-0	Carbon Disulfide	26.8	**20.0**	**75**	72-122	
156-60-5	trans-1,2-Dichloroethene	26.8	**21.3**	**79**	74-118	
75-34-3	1,1-Dichloroethane	26.8	**22.1**	**82**	74-118	
1634-04-4	Methyl tert-Butyl Ether	27.5	**20.6**	**75**	72-119	
108-05-4	Vinyl Acetate	126	**121**	**96**	32-163	
78-93-3	2-Butanone (MEK)	27.5	**23.1**	**84**	71-122	

Verified By: RL Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **Lab Control Sample** — CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** — CAS Sample ID: P080919-LCS

Test Code: EPA TO-15 — Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 — Date Received: NA
Analyst: Simon Cao — Date Analyzed: 9/19/08
Sampling Media: 6.0 L Summa Canister — Volume(s) Analyzed: NA Liter(s)
Test Notes:

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	27.5	**22.0**	**80**	74-117	
141-78-6	Ethyl Acetate	53.5	**46.0**	**86**	69-128	
110-54-3	n-Hexane	27.3	**21.3**	**78**	60-127	
67-66-3	Chloroform	26.8	**22.0**	**82**	72-113	
109-99-9	Tetrahydrofuran (THF)	27.5	**21.6**	**79**	72-129	
107-06-2	1,2-Dichloroethane	26.8	**20.6**	**77**	72-117	
71-55-6	1,1,1-Trichloroethane	26.5	**21.8**	**82**	78-114	
71-43-2	Benzene	26.8	**20.4**	**76**	73-111	
56-23-5	Carbon Tetrachloride	27.0	**22.7**	**84**	78-126	
110-82-7	Cyclohexane	54.5	**43.6**	**80**	74-116	
78-87-5	1,2-Dichloropropane	26.5	**22.6**	**85**	78-117	
75-27-4	Bromodichloromethane	27.3	**23.1**	**85**	77-120	
79-01-6	Trichloroethene	26.5	**23.1**	**87**	80-116	
123-91-1	1,4-Dioxane	27.0	**22.8**	**84**	79-122	
80-62-6	Methyl Methacrylate	53.5	**46.0**	**86**	79-128	
142-82-5	n-Heptane	27.0	**22.2**	**82**	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	**21.4**	**86**	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	**24.1**	**88**	78-128	
10061-02-6	trans-1,3-Dichloropropene	27.5	**24.4**	**89**	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	**22.4**	**85**	80-117	
108-88-3	Toluene	27.0	**24.6**	**91**	76-116	
591-78-6	2-Hexanone	27.5	**26.0**	**95**	69-131	
124-48-1	Dibromochloromethane	28.8	**29.8**	**103**	80-128	
106-93-4	1,2-Dibromoethane	26.8	**26.2**	**98**	79-122	
123-86-4	n-Butyl Acetate	27.5	**26.2**	**95**	69-135	

Verified By: RG Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **Lab Control Sample** CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** CAS Sample ID: P080919-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: NA
Analyst: Simon Cao Date Analyzed: 9/19/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: NA Liter(s)
Test Notes:

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	26.8	**24.8**	**93**	78-122	
127-18-4	Tetrachloroethene	25.8	**25.7**	**100**	77-118	
108-90-7	Chlorobenzene	26.8	**25.3**	**94**	78-117	
100-41-4	Ethylbenzene	26.5	**24.0**	**91**	79-116	
179601-23-1	m,p-Xylenes	52.5	**47.5**	**90**	80-117	
75-25-2	Bromoform	26.0	**30.2**	**116**	77-128	
100-42-5	Styrene	27.0	**25.6**	**95**	80-124	
95-47-6	o-Xylene	26.5	**24.2**	**91**	80-116	
111-84-2	n-Nonane	26.5	**23.7**	**89**	80-120	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	**26.4**	**98**	79-120	
98-82-8	Cumene	25.8	**23.9**	**93**	81-119	
80-56-8	alpha-Pinene	27.5	**26.0**	**95**	76-123	
103-65-1	n-Propylbenzene	25.8	**23.9**	**93**	82-120	
622-96-8	4-Ethyltoluene	27.5	**27.1**	**99**	80-119	
108-67-8	1,3,5-Trimethylbenzene	27.3	**25.1**	**92**	80-120	
95-63-6	1,2,4-Trimethylbenzene	26.8	**24.8**	**93**	80-122	
100-44-7	Benzyl Chloride	28.8	**27.4**	**95**	85-131	
541-73-1	1,3-Dichlorobenzene	27.5	**26.3**	**96**	81-117	
106-46-7	1,4-Dichlorobenzene	27.3	**26.4**	**97**	81-119	
95-50-1	1,2-Dichlorobenzene	27.3	**26.5**	**97**	81-122	
5989-27-5	d-Limonene	26.8	**25.2**	**94**	43-150	
96-12-8	1,2-Dibromo-3-chloropropane	27.5	**28.6**	**104**	91-136	
120-82-1	1,2,4-Trichlorobenzene	28.8	**29.0**	**101**	75-138	
91-20-3	Naphthalene	25.8	**24.5**	**95**	76-143	
87-68-3	Hexachlorobutadiene	28.8	**27.9**	**97**	72-128	

Verified By: RG Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **1**
Client Project ID: **Rite Aid Charlotte, NC**

CAS Project ID: P0802986
CAS Sample ID: P0802986-001DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Simon Cao
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01264

Date Collected: 9/11/08
Date Received: 9/12/08
Date Analyzed: 9/19/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.57

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result µg/m³	Duplicate Sample Result ppbV	Average µg/m³	% RPD	RPD Limit	Data Qualifier
Propene	3.33	1.94	3.43	1.99	3.38	**3**	25	**M**
Dichlorodifluoromethane (CFC 12)	2.05	0.415	2.08	0.421	2.065	**1**	25	
Chloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	25.2	13.4	25.1	13.3	25.15	**0.4**	25	
Acetonitrile	ND	ND	ND	ND	-	-	25	
Acrolein	2.48	1.08	2.46	1.07	2.47	**0.8**	25	
Acetone	32.2	13.6	32.1	13.5	32.15	**0.3**	25	**M**
Trichlorofluoromethane	1.16	0.206	1.12	0.199	1.14	**4**	25	
2-Propanol (Isopropyl Alcohol)	4.36	1.78	4.22	1.72	4.29	**3**	25	
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	ND	ND	ND	ND	-	-	25	
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	ND	ND	ND	ND	-	-	25	
Carbon Disulfide	ND	ND	ND	ND	-	-	25	
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	4.44	1.51	4.35	1.48	4.395	**2**	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Rc Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **1** CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** CAS Sample ID: P0802986-001DUP

Test Code: EPA TO-15 Date Collected: 9/11/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 9/12/08
Analyst: Simon Cao Date Analyzed: 9/19/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01264

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.57

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result µg/m³	Duplicate Sample Result ppbV	Average µg/m³	% RPD	RPD Limit	Data Qualifier
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Ethyl Acetate	2.91	0.808	2.92	0.811	2.915	**0.3**	25	
n-Hexane	ND	ND	ND	ND	-	-	25	
Chloroform	ND	ND	ND	ND	-	-	25	
Tetrahydrofuran (THF)	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	ND	ND	ND	ND	-	-	25	
Carbon Tetrachloride	ND	ND	ND	ND	-	-	25	
Cyclohexane	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	2.60	0.485	2.59	0.482	2.595	**0.4**	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
n-Heptane	ND	ND	ND	ND	-	-	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	ND	ND	-	-	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	4.42	1.17	4.43	1.18	4.425	**0.2**	25	
2-Hexanone	1.18	0.289	1.13	0.275	1.155	**4**	25	
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Butyl Acetate	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

Verified By: Ru Date: 9/24/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **AMEC Earth & Environmental, Inc.**
Client Sample ID: **1** CAS Project ID: P0802986
Client Project ID: **Rite Aid Charlotte, NC** CAS Sample ID: P0802986-001DUP

Test Code: EPA TO-15 Date Collected: 9/11/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 9/12/08
Analyst: Simon Cao Date Analyzed: 9/19/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01264

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.57

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result µg/m³	Duplicate Sample Result ppbV	Average µg/m³	% RPD	RPD Limit	Data Qualifier
n-Octane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	0.890	0.131	0.838	0.124	0.864	**6**	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	1.22	0.281	1.16	0.268	1.19	**5**	25	
m,p-Xylenes	1.85	0.426	1.77	0.408	1.81	**4**	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	1.10	0.259	1.14	0.268	1.12	**4**	25	
o-Xylene	0.818	0.188	ND	ND	-	-	25	
n-Nonane	ND	ND	ND	ND	-	-	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
alpha-Pinene	2.10	0.378	2.07	0.372	2.085	**1**	25	
n-Propylbenzene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	ND	ND	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
d-Limonene	2.34	0.421	2.22	0.399	2.28	**5**	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	ND	ND	ND	ND	-	-	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

Verified By: Rc Date: 9/24/08