ARDENT
ENVIRONMENTAL GROUP, INC.

SUBSURFACE INVESTIGATION AND LIMITED HEALTH RISK ASSESSMENT 111 NORTH HUDSON AVENUE CITY OF INDUSTRY, CALIFORNIA

PREPARED FOR:
Industry Urban-Development Agency
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February 6, 2009
Project No. 100148002

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Mr. Kevin Radecki
Industry Urban-Development Agency
15625 East Stafford Street, Suite 200
Industry, California 91744

Subject: Subsurface Investigation and
Limited Health Risk Assessment
111 Hudson Avenue
City of Industry, California

Dear Mr. Radecki:

In accordance with our proposal and change order dated December 12, 2008 and January 22, 2009, respectively, Ardent Environmental Group, Inc. has completed a subsurface investigation and limited health risk assessment for the subject property (site). The following report documents our findings and provides opinions, conclusions, and recommendations regarding the environmental status of the site. We appreciate the opportunity to be of service to you on this project.

Sincerely,
Ardent Environmental Group, Inc.

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TABLE OF CONTENTS

Page

EXECUTIVE SUMMARY 1
1. INTRODUCTION 4
2. BACKGROUND 4
3. OBJECTIVES 6
4. REGULATORY CLEANUP GOALS 6
4.1. Soil 7
4.2. Soil Gas 8
5. SUBSURFACE INVESTIGATION AND LIMITED RISK ASSESSMENT 8
5.1. Soil Gas Survey and Laboratory Results 8
5.2. Limited Health Risk Assessment (HRA) 9
5.2.1. Chemical Exposure Assessment 10
5.2.2. Fate and Transport Modeling 11
5.2.3. Toxicity Assessment 13
5.2.4. Risk Characterization 15
5.2.5. Uncertainty Analysis 16
5.3. Soil Sampling and Laboratory Results 16
5.3.1. Former Diesel AST and Dispenser (REC1) 17
5.3.2. Former USTs (REC2) 18
5.3.3. Former Paint Mixing Vats (REC3) 18
5.3.4. Former Paint Vats (REC4) 19
5.3.5. Former Clarifier (REC5) 19
5.3.6. Former ASTs (REC6) 20
5.3.7. Former Hazardous Materials Storage Areas (REC7) 21
6. CONCLUSIONS 22
7. RECOMMENDATIONS 24
8. REFERENCES 25

Tables

Table 1 – Summary of Soil Gas Results
Table 2 – Summary of Soil Sample Results

Figures

Figure 1 – Site Location Map
Figure 2 – Site Plan

Appendices

Appendix A – Laboratory Reports
Appendix B – Risk Assessment Documentation
Appendix C – Boring Logs

EXECUTIVE SUMMARY

Ardent Environmental Group, Inc. (Ardent) was retained by Richards Watson & Gershon, on behalf of their client, Industry Urban-Development Agency (Agency) to complete a subsurface investigation and limited health risk assessment (HRA) at the property located at 111 Hudson Avenue in the City of Industry, California (site). The Agency is considering purchasing the property and will continue to use the site for commercial purposes. In the future, it is possible the Agency might demolish the building and ready the site for redevelopment. As part of their real estate due diligence activities, Richards Watson & Gershon, on behalf of the Agency, retained Ardent to complete a Phase I Environmental Site Assessment (ESA) and Document Review dated February 6, 2009 (referred to herein as the "Phase I ESA"). Based on the results of the Phase I ESA, Ardent recommended the work described herein. This report presents the results of those investigations.

Based on the results of our work, the following conclusions are presented:

- The site was used for agricultural purposes or vacant land from at least 1924 to the mid-1960s. The current site building was constructed in 1967-1968 and was occupied by paint mixing companies until at least 1996. The site was then used for computer assembly and furniture distribution companies until April 2008. Currently, the on-site building is vacant.

- In 1986, groundwater was reported at approximately 29 feet below ground surface (bgs) in an on-site groundwater monitoring well. The groundwater well was abandoned in 1995. In 2006, groundwater was reported at depths of approximately 41 to 42 feet bgs at a close by property. Groundwater was reported to flow in a northwesterly direction.

- As part of the paint mixing operations, chemicals (e.g., ethylene glycol, propylene glycol, paint thinner, and Texanol [aka ester alcohol]) were brought to the site and stored in five underground storage tanks (USTs). Another UST was used to store diesel fuel. The USTs were clustered in the southeastern portion of the site. Paint chemicals brought to the site were mixed in aboveground storage tanks (ASTs) placed in concrete-lined mixing pits located within the building. The paint was then placed in underground paint vats, also located within the building, and containerized for shipment. Wastewater and liquids produced by these operations traveled through a clarifier. In 1986, the USTs were removed and replaced with a number of ASTs. At this time, an AST and associated dispenser was also used for truck fueling purposes (i.e. diesel fuel). During these operations, hazardous materials were stored in the western portion of the site. Based on the results of the Phase I ESA, recognized environmental conditions (RECs) included the former diesel AST and associated dispenser (referred to as REC1), former USTs (referred to as REC2), former paint mixing vats (referred

to as REC3); former paint vats (referred to as REC4); former clarifier (referred to as REC5); former ASTs (referred to as REC6); and the former hazardous materials storage areas (referred to as REC7). Based on these findings, Ardent recommended completing a subsurface investigation in the vicinity of these features.

- **Former Diesel AST and Dispenser (REC1)** – Based on the results of the Phase I ESA, no investigations had been completed in the location of the former diesel AST and associated dispenser. Based on this information, Ardent advanced one soil boring in the location of these features. Laboratory results of a soil sample collected at 5 feet bgs indicated low concentrations of diesel fuel range hydrocarbons (2.1 milligram per kilogram [mg/kg] versus Regional Water Quality Control Board, Los Angeles Region [RWQCB] cleanup guidelines of 100 mg/kg) and no detectable concentrations of volatile organic compounds (VOCs), including fuel oxygenates. Based on this information, there is a low likelihood that elevated concentrations of diesel fuel range hydrocarbons or VOCs are present in the vicinity of the former diesel fuel AST and associated dispenser, and therefore, these features would no longer be considered an environmental concern to the site.

- **Former USTs (REC2)** - Laboratory results of confirmation soil samples collected in 1986 within the UST excavation indicated residual concentrations of petroleum hydrocarbons. Although the remaining petroleum hydrocarbon concentrations slightly exceed current RWQCB guidelines, Ardent concurred that no further remediation was necessary. However, confirmation sampling did not include VOCs (an analysis typically required by the RWQCB for paint thinner and diesel fuel USTs). Based on this information, Ardent advanced two soil borings in the location of the former paint thinner USTs and diesel fuel UST. Laboratory results of soil samples collected at 15 feet bgs indicated no detectable concentrations of VOCs. Based on this information, there is a low likelihood that elevated concentrations of VOCs are present in the vicinity of the former USTs, and therefore, these features would no longer be considered an environmental concern to the site.

- **Former Paint Mixing Vats (REC3), Former Paint Vats (REC4), Former Clarifier (REC5); Former ASTs (REC6), and Former Hazardous Materials Storage Areas (REC7)** - Historically, limited soil gas surveys were completed in selected areas of the site to assess whether possible VOCs and petroleum hydrocarbon contaminants were present. There were no investigations to assess whether other paint mixing chemicals of concern (COC, such as petroleum hydrocarbons [i.e. paint thinner], ethylene glycol, propylene glycol, and ester alcohol) were present in the areas of the former paint mixing pits, the former paint vats, the former ASTs, and the hazardous materials storage area. Based on this information, Ardent completed a subsurface investigation in the location of these features. Laboratory reports of soil samples indicated no detectable to low concentrations of paint mixing COC or VOCs associated with these features. Based on this information, there is a low likelihood that elevated concentrations of paint mixing COC or VOCs are present in the vicinity of the former paint mixing pits, the former paint vats, the former ASTs, and the hazardous materials storage area, and therefore, these features would no longer be considered an environmental concern to the site.

- The site is located in the San Gabriel Valley Groundwater Basin within the Puente Valley Operable Unit. Portions of the San Gabriel Valley Groundwater Basin have been listed on the National Priority List (NPL), or Superfund Site. Portions of the Puente Valley Operable Unit are contaminated with VOCs, namely the chlorinated solvents trichloroethene (TCE) and tetrachloroethylene (PCE). In 1986, a groundwater well was installed at the site to further assess groundwater conditions. Laboratory results confirmed that groundwater beneath the site is impacted with VOCs, namely PCE. In the early and mid-1990s as part of the RWQCB Well Investigation Program (WIP), two soil gas surveys were required by the RWQCB in an effort to assess whether the site had contributed to the regional groundwater issues. Although PCE was detected in a number of soil gas samples, the results were assessed to have been possibly caused by off-gassing from contaminants in groundwater. This oversight and further investigation also encompassed the closure of the USTs and clarifier. Based on the results, the RWQCB issued a no further action (NFA) letter for the site dated January 17, 1996. Based on our review of historical data as well as soil data collected during this assessment (as discussed above), Ardent concurs with the RWQCB that there is a low likelihood that the site has contributed to the regional groundwater VOC issue.

- However, current American Society for Testing and Materials (ASTM) standards require the evaluation of possible vapor intrusion into existing and planned buildings from known contaminants beneath the site. Possible vapor intrusion assessments were not required during the time the previous on-site soil gas investigations were performed. Based on this information, Ardent completed a soil gas survey throughout the site. Laboratory results indicated concentrations of certain VOCs (namely benzene and PCE) in soil vapor at concentrations exceeding the California Human Health Screening Levels (CHHSLs) outlined by Cal-EPA. Ardent subsequently completed a limited HRA using site specific and default values. Based on the results of the HRA, the residual concentrations of VOCs in soil vapor do not pose an unacceptable health risk to future on-site receptors from inhalation of indoor air.

Based on the results of this investigation, current regulatory guidelines and our professional judgment, Ardent has no recommendations for additional investigations or remediation at this time.

1. INTRODUCTION

Ardent Environmental Group, Inc. (Ardent) was retained by Richards Watson & Gershon, on behalf of their client, Industry Urban-Development Agency (Agency) to complete a subsurface investigation and limited health risk assessment (HRA) at the property located at 111 Hudson Avenue in the City of Industry, California (site; Figure 1). Work was conducted in general accordance with the proposal and change order dated December 12, 2008 and January 22, 2009, respectively, between Richards Watson & Gershon and Ardent. The Agency is considering purchasing the property and will continue to use the site for commercial purposes. In the future, it is possible the Agency might demolish the building and ready the site for redevelopment. As part of their real estate due diligence activities, Richards Watson & Gershon, on behalf of the Agency, retained Ardent to complete a Phase I Environmental Site Assessment (ESA) and Document Review dated February 6, 2009 (referred to herein as the "Phase I ESA"). Based on the results of the Phase I ESA, Ardent recommended the work described herein. This report presents the results of those investigations.

2. BACKGROUND

The site was used for agricultural purposes or vacant land from at least 1924 to the mid-1960s. The current site building was constructed in 1967-1968 and was occupied by paint mixing companies until at least 1996. The site was then used for computer assembly and furniture distribution companies until April 2008. Currently, the on-site building is vacant.

In 1986, groundwater was reported at approximately 29 feet below ground surface (bgs) in an on-site groundwater monitoring well. The groundwater well was abandoned in 1995. In 2006, groundwater was reported at depths of approximately 41 to 42 feet bgs at a close by property. Groundwater was reported to flow in a northwesterly direction.

As part of the paint mixing operations, chemicals (e.g., ethylene glycol, propylene glycol, paint thinner, and Texanol [aka ester alcohol]) were brought to the site and stored in five underground storage tanks (USTs). Another UST was used to store diesel fuel. The USTs were clustered in the

southeastern portion of the site. Paint chemicals brought to the site were mixed in aboveground storage tanks (ASTs) placed in concrete-lined mixing pits located within the building. The paint was then placed in underground paint vats, also located within the building, and containerized for shipment. Wastewater and liquids produced by these operations traveled through a clarifier. In 1986, the USTs were removed and replaced with a number of ASTs. At this time, an AST and associated dispenser was also used for truck fueling purposes (i.e. diesel fuel). During these operations, hazardous materials were stored in the western portion of the site. Based on the results of the Phase I ESA, recognized environmental conditions (RECs) included the former diesel AST and associated dispenser (referred to as REC1), former USTs (referred to as REC2), former paint mixing vats (referred to as REC3); former paint vats (referred to as REC4); former clarifier (referred to as REC5); former ASTs (referred to as REC6); and the former hazardous materials storage areas (referred to as REC7). Based on these findings, Ardent recommended completing a subsurface investigation in the vicinity of these features.

The site is located in the San Gabriel Valley Groundwater Basin within the Puente Valley Operable Unit. Portions of the San Gabriel Valley Groundwater Basin have been listed on the National Priority List (NPL), or Superfund Site. Portions of the Puente Valley Operable Unit are contaminated with VOCs, namely the chlorinated solvents trichloroethene (TCE) and tetrachloroethylene (PCE). In 1986, a groundwater well was installed at the site to further assess groundwater conditions. Laboratory results confirmed that groundwater beneath the site is impacted with VOCs, namely PCE. In the early and mid-1990s as part of the Regional Water Quality Control Board, Los Angeles Region (RWQCB) Well Investigation Program (WIP), two soil gas surveys were required by the RWQCB in an effort to assess whether the site had contributed to the regional groundwater issues. Although PCE was detected in a number of soil gas samples, the results were assessed to have been possibly caused by off-gassing from contaminants in groundwater. This oversight and further investigation also encompassed the closure of the USTs and clarifier. Based on the results, the RWQCB issued a no further action (NFA) letter for the site dated January 17, 1996. Based on our review of historical data as well as soil data collected during this assessment (as discussed herein), Ardent concurs with the RWQCB that there is a low likelihood that the site has contributed to the regional groundwater

VOC issue.

However, current American Society for Testing and Materials (ASTM) standards require the evaluation of possible vapor intrusion into existing and planned buildings from known contaminants beneath the site. Possible vapor intrusion assessments were not required during the time the previous on-site soil gas investigations were performed. Based on this information, Ardent recommended completing a soil gas survey throughout the site to assess whether a health risk was present due to possible vapor intrusion.

3. OBJECTIVES

The objectives of the work described herein were to:

- Assess whether elevated concentrations of diesel fuel range hydrocarbons or VOCs were present in soil in the vicinity of the former diesel fuel UST and associated dispenser (REC1);
- Assess whether elevated concentrations of VOCs were present in soil in the vicinity of the former USTs (REC2);
- Assess whether elevated concentrations of paint mixing COC were present in the vicinity of the former paint mixing vats (REC3), former paint vats (REC4), former clarifier (REC5), former ASTs (REC6), and the former hazardous materials storage areas (REC7); and
- Assess whether elevated concentrations of VOCs were present in soil vapor, and if so, to evaluate whether a human health risk was present due to possible vapor intrusion.

4. REGULATORY CLEANUP GOALS

As presented herein, selected soil samples were collected and analyzed for certain chemical constituents including petroleum hydrocarbons (diesel fuel or paint thinner), ethylene glycol, propylene glycol, and Texanol (aka ester alcohol). Soil vapor samples (also referred to herein as "soil gas samples") were collected and analyzed for VOCs. The following presents regulatory cleanup goals and standards that were used to assess whether these constituents, if detected, would be considered elevated.

4.1. Soil

There are no cleanup standards for petroleum hydrocarbons, ethylene glycol, propylene glycol, and ester alcohol in soil. To assess whether a constituent discovered would be considered "elevated," Ardent used a number of cleanup guidelines used by regulatory agencies, which are typically used as industry standards. As presented herein, "elevated concentrations" of constituents are chemicals that exceed these guidelines, and "low concentrations" are defined as concentrations below these guidelines.

Laboratory results of soil samples collected during this investigation indicated no detectable concentrations of ethylene glycol, propylene glycol, and ester alcohol. Only concentrations of petroleum hydrocarbons and toluene were detected. These constituents were generally assessed based on the RWQCB Interim Site Assessment & Cleanup Guidebook dated May 1996 (referred to herein as the "RWQCB guidelines"). The RWQCB guidelines were established to provide cleanup goals to protect groundwater. The guidelines take into account a number of variables including constituents detected, lithological conditions, and depth to groundwater. Based on these guidelines, concentrations of total petroleum hydrocarbons as gasoline C_4-C_{12} (TPHg) were considered elevated if the concentrations exceeded 100 mg/kg; diesel fuel range hydrocarbons C_{13}-C_{22} (TPHd) were considered elevated if the concentrations exceeded 100 mg/kg; and heavier petroleum hydrocarbons C_{23}-C_{30} (referred to herein as total petroleum hydrocarbons as oil range hydrocarbons [TPHo]) were considered elevated if concentrations exceeded 1,000 mg/kg. These concentrations were based on the RWQCB guidelines at properties where samples are collected at depths of less than 20 feet above groundwater (historical groundwater depths).

With the exception of toluene, laboratory reports indicated no detectable concentrations of VOCs in soil samples analyzed during this investigation. The detectable concentrations of toluene were also evaluated based on the RWQCB guidelines using very conservative criteria of sandy conditions and samples being collected at 20 feet above groundwater. Based on these criteria, "elevated concentrations" of toluene would be levels exceeding 300 micrograms per kilogram (ug/kg). As noted herein, the detectable concentrations of toluene

(up to 1 ug/kg) were well below these guidelines.

4.2. Soil Gas

There are no regulatory cleanup standards for VOCs in soil vapor. The soil gas survey was completed to further assess vapor concentrations beneath the site and whether these concentrations, if present, would pose a potential human health risk based on vapor intrusion into the existing or future building. The first step of this evaluation was to compare laboratory results of VOCs with the Cal-EPA California Human Health Screening Levels (CHHSLs). As presented herein, two constituents (benzene and PCE) were detected at concentrations exceeding the screening levels for commercial/industrial land use. Based on these findings, all detected constituents (including benzene, PCE, ethylbenzene, xylenes, and toluene) were further evaluated by conducting a limited HRA. Based on the results, discussed below, no human health risk was determined based on the concentrations detected.

5. SUBSURFACE INVESTIGATION AND LIMITED RISK ASSESSMENT

The subsurface investigation was completed on January 14 and 15, 2009 and consisted of advancing 12 soil gas probes (designated SG-1 through SG-12) throughout the site and drilling 15 soil borings (designated AB-1 through AB-15) in selected areas of the site (Figure 2). With the exception of boring AB-1, soil gas probes and borings were advanced using direct push equipment. The soil gas survey was completed in general accordance with RWQCB and Department of Toxic Substances Control (DTSC) guidelines. Laboratory reports are provided in Appendix A, the risk assessment documentation is available in Appendix B, and boring logs are in Appendix C.

5.1. Soil Gas Survey and Laboratory Results

The soil gas survey was completed on January 14, 2009 and consisted of advancing 12 soil gas points to depths of approximately 5 feet bgs throughout the site. The site was divided into 12 approximately equal grids and one point was placed in the approximate center of each grid (Figure 2). Following advancement of the probes, one vapor sample was collected

from each probe. The samples were analyzed by a mobile laboratory for VOCs in general accordance with EPA Method No. 8260B. Table 1 presents a summary of the laboratory results.

As presented on Table 1, detectable concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX) and PCE were reported throughout the site. These constituents have not been reportedly used at the site. As previously noted, PCE has historically been detected in groundwater samples collected beneath the site which were suspected as being associated with the larger VOC-impacted groundwater issue in the site vicinity. BTEX are constituents typically found in gasoline. Again, there has been no reported use, storage, or handling of large quantities of gasoline at the site.

Due to the wide-spread and relatively low concentrations, types of constituents, and lack of historical uses of these chemicals on-site, no on-site source is suspected. The concentrations of PCE in soil vapor are suspected to be associated with the impacted groundwater and the concentrations of BTEX might be associated with the gasoline UST leak at the Los Angeles County Sheriff's Department located immediately east of the site. This facility has been under going soil and groundwater remediation for a number of years.

Ardent compared the concentrations detected in soil vapor to those outlined in CHHSLs. Based on these cleanup criteria, benzene and PCE exceed the screening levels for commercial/industrial uses. To further assess whether a possible human health risk was present, Ardent completed a limited HRA.

5.2. Limited Health Risk Assessment (HRA)

The HRA evaluates a preliminary and conservative health risk from exposure to vapors of volatile and toxic chemicals that could potentially intrude into site structures. This evaluation only considers the inhalation pathway of exposure to this class of chemicals. This evaluation identifies those chemicals encountered during the soil gas survey that have a potential to migrate into indoor air and quantifies the potential chronic risk to future workers who may be exposed to the vapors of these chemicals. The objective of this screening

evaluation is to determine if the quantified risk is less than significant, in which case further assessment is not warranted. If the quantified risk is evaluated as significant, additional assessment may be required. Documentation of the HRA evaluation is presented in Appendix B. The evaluation consists of the steps described below.

Chemical Exposure Assessment

This step lists the chemicals identified in the soil gas survey that are potentially volatile and toxic, provides the rationale for including or excluding individual chemicals from the screening evaluation process, and compiles their relevant physical and chemical characteristics.

Toxicity Assessment

This step compiles the relevant and significant human toxicity of these chemicals.

Risk Characterization

This step integrates the results of the chemical exposure assessment and the toxicity assessment to quantify the incremental lifetime cancer risk and non-cancer hazard from the chemicals identified in this study. The cumulative risk and hazard from all chemicals is quantified for future site workers.

Uncertainty Analysis

This step summarizes the basic assumptions and uncertainties of the screening evaluation.

5.2.1. Chemical Exposure Assessment

As described in previous sections, soil gas samples from 12 locations were collected at depths of approximately 5 feet bgs and analyzed for VOCs by EPA Method No. 8260B. Chemicals that were detected in one or more of the twelve samples analyzed were BTEX and PCE. Benzene was detected in 10 of the 12 samples, toluene in 11 of 12 samples, ethylbenzene in 3 of 12 samples, and xylenes in 11 of 12 samples. PCE was encountered in 6 of the 12 samples analyzed. BTEX and PCE are identified as volatile and toxic in the vapor intrusion inhalation pathway (EPA, 2002) and are included in this screening evaluation.

The representative exposure concentration of each chemical was estimated as the approximate 95 percent upper confidence limit of the mean (95 UCL). Chemical

concentrations reported as non-detect were substituted with 1/2 the value of the reporting limit. Each chemical data set was tested for normality or log normality. If the data set did not fit any distribution, an appropriate non-parametric method was considered for computing the 95 UCL. The estimated 95 UCL for each chemical, compared to the minimum, maximum, and statistical mean are presented below. Since the non-detect values were substituted with half the reporting limit for each chemical, the minimum values equal half the reporting limit.

Chemicals and Soil Gas Concentrations in µg/m³

Location	Benzene	Ethylbenzene	M,P-Xylenes	O-Xylenes	PCE	Toluene
SG-1-5	120.00	100.00	530.00	100.00	720.00	630.00
SG-2-5	170.00	100.00	640.00	230.00	150.00	810.00
SG-3-5	100.00	100.00	660.00	240.00	140.00	960.00
SG-4-5	150.00	210.00	760.00	280.00	290.00	830.00
SG-5-5	360.00	210.00	750.00	300.00	100.00	1000.00
SG-6-5	50.00	100.00	620.00	240.00	50.00	690.00
SG-7-5	190.00	100.00	640.00	240.00	50.00	780.00
SG-8-5	260.00	100.00	650.00	240.00	120.00	890.00
SG-9-5	50.00	100.00	640.00	260.00	50.00	720.00
SG-10-5	280.00	200.00	750.00	290.00	50.00	1100.00
SG-11-5	160.00	100.00	720.00	280.00	50.00	870.00
SG-12-5	120.00	100.00	250.00	100.00	50.00	250.00
Descriptive Statistics and Representative Exposure Concentrations in µg/m³						
Minimum	50.00	100.00	250.00	100.00	50.00	250.00
Maximum	360.00	210.00	760.00	300.00	720.00	1100.00
Mean	167.50	126.67	634.17	233.33	151.67	794.17
95% UCL	215.89	152.61	701.61	266.36	393.99	906.83

Non-detect concentrations were substituted with half the reporting limit

5.2.2. Fate and Transport Modeling

The Johnson & Ettinger (J&E) model was used as part of the chemical exposure assessment to calculate an attenuation factor for each chemical from volatilization of the chemical in the subsurface, diffusion through the connected air-filled soil pore spaces in the vadose zone, and convective transport in the zone of building influence into the breathing zone of future site workers inside the existing building. The model

for "soil gas screening evaluation" developed by the EPA and modified by the DTSC to incorporate additional chemicals and toxicity criteria was used for this screening evaluation (DTSC, 2005).

The J&E model is a simple, one-dimensional deterministic model with single-point inputs and outputs. The model is based on the basic principles of contaminant fate and transport, contaminant partitioning between media, and the physical and chemical properties of the contaminants. The model incorporates both diffusion and advection as mechanisms of transport of subsurface vapor into the indoor air environment.

The specific J&E model used for this evaluation assumed:

- Steady-state conditions,
- An infinite source of contamination,
- Homogenous distribution of contamination,
- Homogenous subsurface conditions,
- Uniform air mixing in the building,
- Absence of preferential pathways,
- Absence of biodegradation, and
- Constant building parameters such as ventilation rates and pressure differences.

The default parameters and assumptions used in the J/E model may not be representative of actual site conditions and may introduce uncertainty that may increase or decrease the potential health risk. Accordingly some of the default parameters were adjusted to reduce the uncertainty in the estimated risk. The site-specific values reflected the existing building structure and proposed commercial use. The parameters and values used are listed below.

- The default value of 15 centimeters for the depth of foundation.

- The site-specific value of 5 feet for sampling depth.
- The default value of 24 degrees centigrade for soil temperature.
- The site lithology was described as homogenous sandy silt in the top five feet in 12 of the 15 locations that were drilled and sampled and as homogenous silty sand in the top five feet in 3 of the 15 locations. The more permeable soil type will usually control vapor transport in the vadose zone and accordingly a sandy loam profile was selected, assuming 20 to 50% fines content. This profile is slightly more conservative than the sandy silt classification but within a reasonable range for silty sand. The default values for sandy loam were used.
- The default central-tendency value of 5 liters per minute for vapor flow into the building.
- Site-specific values for exposure duration in a commercial setting (25 years and 250 days per year).
- Default values of averaging time for the chemicals.
- An air exchange rate of 1.0 per hour for commercial use (DTSC, 2005).
- 95 UCL of the mean as representative concentration for each chemical (DTSC, 2005).

5.2.3. Toxicity Assessment

The EPA guidelines for cancer risk assessment recognize three broad categorizes of data, (1) human data, which is primarily epidemiological; (2) results of long-term experimental animal bioassays and; (3) supporting data, including a variety of short-term tests for genotoxicity and other relevant properties, pharmacokinetic and metabolic studies, and structure-activity relationships. These three broad categories of data are combined to characterize the weight-of-evidence regarding a chemical's potential as a human carcinogen into one of several hierarchical categories, listed below.

- **Group A** - Carcinogenic to Humans: Chemicals with adequate human data to demonstrate the causal association of the agent with human cancer (typically epidemiologic data).
- **Group B** - Probably Carcinogenic to Humans: Chemicals with sufficient evidence

(i.e., indicative of a causal relationship) from animal bioassay data, but either limited human evidence (i.e., indicative of a possible causal relationship, but not exclusive of alternative explanations; Group B1), or with little or no human data (Group B2).

- **Group C** - Possibly Carcinogenic to Humans: Agents with limited animal evidence and little or no human data.
- **Group D** - Not Classifiable as to Human Carcinogenicity: Agents without adequate data either to support or refute human carcinogenicity.
- **Group E** - Evidence of Non-carcinogenicity for Humans: Agents that show no evidence for carcinogenicity in at least two adequate animal tests in different species or in both adequate epidemiologic and animal studies.

The chemicals identified in this screening evaluation are described in terms of their known or suspected human toxicological effects and the EPA's classification of the chemical into one of the categories described above.

Benzene is one of the common volatiles in petroleum-based fuels. Because of benzene's high vapor pressure, inhalation is the most likely route of exposure to the chemical. Benzene has been placed in the EPA weight-of-evidence classification Group A, human carcinogen.

PCE is a halogenated aliphatic hydrocarbon used primarily as a solvent in industry and, less frequently, in commercial dry-cleaning operations. Inhalation is the primary route of entry for PCE. The main targets of PCE toxicity are the liver, kidney, and the central nervous system (CNS) by inhalation exposure. The EPA has classified PCE as a Group B2, probable human carcinogen.

The other chemicals evaluated (ethylbenzene, toluene, and xylenes) are not considered carcinogenic according to the DTSC-modified J&E model. However, the non-cancer hazard for all chemicals, carcinogenic and otherwise, were quantified using toxicity values compiled in the DTSC J&E model for soil gas evaluation.

5.2.4. Risk Characterization

At present, the EPA typically assumes a linear relationship between the level of exposure and the lifetime probability of cancer from a carcinogenic chemical. In this study, the dose-response relationship was used to calculate the upper bound estimate of the future site worker's theoretical probability of contracting cancer from exposure to each chemical. This probability is expressed in scientific notation (for example, 1×10^{-6} indicates a theoretical probability of 1 in 1 million). The cancer risk for each chemical for the inhalation pathway is presented in the table below.

Chemical	Incremental Cancer Risk	Hazard Index
Benzene	5.8×10^{-7}	1.9×10^{-3}
Toluene	NC	7.8×10^{-4}
Ethylbenzene	NC	3.5×10^{-5}
M,P-Xylenes	NC	1.7×10^{-3}
O-Xylenes	NC	6.8×10^{-4}
PCE	1.9×10^{-7}	2.5×10^{-3}
Total	7.7×10^{-7}	7.5×10^{-3}

NC: not a human carcinogen

The cumulative excess cancer risk was calculated as 7.7×10^{-7} (1 in 1.3 million), which is less than the upper (conservative) acceptable risk threshold of 1 in 1 million.

The EPA typically expresses dose-response relationships for effects other than cancer in terms of the chemical's reference concentration (RfC). The RfC is a concentration of the chemical thought to be without adverse effects even if a person is exposed continuously. To express non-cancer hazards the EPA uses the RfC as part of a calculation called the hazard index (HI), which is the ratio between the concentration to which a person is exposed and the RfC. A value less than one indicates that the exposure is lower than the RfC and that no adverse health effects would be expected. A value greater than one indicates that the exposure is higher than the RfC. The cumulative HI for the Site was calculated as 0.008, which is

within the acceptable limit of 1. The cumulative risks to site workers from the inhalation exposure pathway are less than significant for the intended future site use.

5.2.5. Uncertainty Analysis

Since it is difficult to accurately predict future exposures and consequent risks from those exposures, certain assumptions were made in the screening evaluation. These assumptions were reasonably conservative to be protective of human health but not so conservative as to be outside of the range of probability. The assumptions include:

- A non-diminishing infinite source of contaminants,
- The cumulative sum of cancer and non-cancer risks was estimated without consideration of the toxic end-point or mechanism of action for the various chemicals,
- Factors such as exposure duration and exposure frequency are likely overestimated, and
- The risk calculations do not account for a reduced contaminant intake based on reduced bioavailability.

The uncertainties that could result in a risk greater than that calculated are listed below.

- A decrease in ventilation rates in buildings on site that could lead to a buildup of toxic contaminants in indoor air intruding from the subsurface.
- The biotransformation of a chemical from a relatively benign compound to a more toxic compound, such as the transformation of numerous precursors to vinyl chloride.

5.3. Soil Sampling and Laboratory Results

The subsurface investigation also included drilling 15 soil borings to depths up to 30 feet bgs in selected areas of the site. The drilling activities were conducted on January 15, 2009. Soil borings were advanced in areas of the RECs discussed in the previously prepared Phase I ESA. Soil samples were collected from each boring at 5-foot depth intervals beginning at

approximately 5 feet bgs and continuing to the bottom of the boring. Soil lithology generally consisted of interbedded silty fine sand and fine sandy silt. Soil samples were screened in the field for possible staining, odors, or elevated photoionization detector (PID) readings. With the exception of soil samples collected from boring AB-9, drilled in the area of the former ASTs, no stained, odorous, or elevated PID readings were noted. Boring logs, presenting lithology and field observations, are presented in Appendix C.

Selected soil samples were chemically analyzed for certain chemicals of concern. A summary of the findings are presented below. Laboratory reports are presented in Appendix A and summarized on Table 2.

5.3.1. Former Diesel AST and Dispenser (REC1)

Boring AB-1 was drilled in the vicinity of the former diesel AST and dispenser (Figure 2). As discussed in the Phase I ESA, these features were installed following the removal of the diesel fuel UST that was located in the former UST area in the southeastern portion of the site. No previous investigation had been completed in this area.

Due to a small retaining wall and traffic bollard located immediately west of this area, access to the area by a drill rig was not possible. Therefore, Ardent utilized a hand auger to advance boring AB-1 to a depth of approximately 5 feet bgs in the vicinity of the reported former dispenser. No stained or odorous soil was encountered. A soil sample was collected at a depth of approximately 5 feet bgs and analyzed for TPHd and VOCs (including fuel oxygenates). Laboratory results indicated no detectable concentrations of VOCs and very low concentrations of TPHd (2.1 mg/kg), well below the RWQCB cleanup guideline of 100 mg/kg. Based on this information, there is a low likelihood that elevated concentrations of diesel fuel range hydrocarbons or VOCs are present in the vicinity of the former diesel fuel AST and associated dispenser, and therefore, these features would no longer be considered an environmental concern to the site.

5.3.2. Former USTs (REC2)

As presented in the Phase I ESA, the former paint mixing facility used a number of USTs that were clustered in the southeastern portion of the property to store product such as paint thinner, ethylene glycol, propylene glycol, ether alcohol, paint thinner, and diesel fuel. USTs were removed from the site in 1986 and confirmation samples were collected for the appropriate chemicals of concern. Although some concentrations of petroleum hydrocarbons were detected in confirmation soil samples, the samples were not analyzed for VOCs (typically required by the RWQCB during removal of paint thinner and diesel USTs using current regulatory guidelines). Based on this information, Ardent recommended drilling two borings in the vicinity of the paint thinner USTs and former diesel UST and analyzing soil samples for VOCs.

Boring AB-2 was drilled between the reported location of the two former paint thinner USTs and boring AB-3 was drilled in the reported location of the former diesel fuel UST (Figure 2). Since 6,000-gallon USTs are typically 6 to 8 feet in diameter and the tops of the tanks are typically located approximately 4 feet bgs (the total depth would be between 10 to 12 feet bgs), Ardent analyzed the soil sample collected at approximately 15 feet bgs from each boring for VOCs. Laboratory results indicated no detectable concentrations. Based on this information, there is a low likelihood that elevated concentrations of VOCs are present in the vicinity of the former USTs, and therefore, these features would no longer be considered an environmental concern to the site.

5.3.3. Former Paint Mixing Vats (REC3)

The former paint mixing vats were located within the southern portion of the building and were reported to be used for mixing paints (Figure 2). Although previous investigations in this area included soil gas surveys for VOCs and petroleum hydrocarbons, no soil samples were collected for other paint mixing COC. Two soil borings (AB-5 and AB-6) were drilled in the vicinity of the former paint

mixing vats to a depth of approximately 20 feet bgs. No stained or odorous soil was encountered. Because these features were reportedly underground, the samples collected at a depth of approximately 10 feet were analyzed for the paint mixing COC. Laboratory reports of soil samples indicated no detectable to low concentrations of paint mixing COC associated with these features (Table 2). Based on this information, there is a low likelihood that elevated concentrations of paint mixing COC are present in the vicinity of the former paint mixing pits, and therefore, these features would no longer be considered an environmental concern to the site.

5.3.4. Former Paint Vats (REC4)

The former paint vats were also located within the southern portion of the building and were reported to be used for mixing paints (Figure 2). Although previous investigations in this area included soil gas surveys for VOCs and petroleum hydrocarbons, no soil samples were collected for other paint mixing COC. Two soil borings (AB-4 and AB-7) were drilled in the vicinity of the former paint vats to a depth of approximately 20 feet bgs. No stained or odorous soil was encountered. Because these features were reportedly underground, the samples collected at a depth of approximately 10 feet were analyzed for the paint mixing COC. Laboratory reports of soil samples indicated no detectable to low concentrations of paint mixing COC associated with these features (Table 2). Based on this information, there is a low likelihood that elevated concentrations of paint mixing COC are present in the vicinity of the former paint mixing pits, and therefore, these features would no longer be considered an environmental concern to the site.

5.3.5. Former Clarifier (REC5)

The former clarifier was located in the southern portion of the site (Figure 2). Previous investigations in the vicinity of this feature included a groundwater well (in 1986) and soil gas surveys (in the early and mid-1990s). The clarifier was removed in 1995 and no confirmation samples were collected. Based on this information, Ardent recommended that soil samples be collected in the vicinity of this former

feature to assess whether paint mixing COC were present.

Ardent advanced boring AB-8 in the vicinity of the former clarifier to a depth of approximately 20 feet bgs. No odorous or stained soil was encountered. Because clarifiers are typically between 5 to 10 feet deep, Ardent chose the sample collected at 10 feet bgs for chemical analyses. Laboratory results indicated no detectable concentrations of ethylene glycol, propylene glycol, and ester alcohol, and low concentrations of TPHd (1.3 mg/kg) and TPHo (6.6 mg/kg) range hydrocarbons; well below the RWQCB guidelines of 100 and 1,000 mg/kg, respectively. Based on this information, there is a low likelihood that elevated concentrations of paint mixing COC are present in the vicinity of the former clarifier, and therefore, this feature would no longer be considered an environmental concern to the site.

5.3.6. Former ASTs (REC6)

The former ASTs were located immediately south of the existing building and had replaced the USTs following removal in 1986. These features were used to store paint mixing chemicals. Although soil gas surveys were historically completed in the vicinity of these features, no paint mixing COC were analyzed in soil samples in this area.

Ardent advanced three soil borings designated AB-9, -10, and -11 in the vicinity of these features (Figure 2). Borings AB-10 and AB-11 were drilled to depths of approximately 10 feet bgs and no odorous or stained soil was encountered. Because these features were aboveground, Ardent chose the 5-foot samples in borings AB-10 and AB-11 for chemical analyses. Laboratory results indicated no detectable concentrations of ethylene glycol, propylene glycol, and ester alcohol, and low concentrations of TPHd (up to 2.6 mg/kg) and TPHo (up to 6.4 mg/kg) range hydrocarbons; well below the RWQCB guidelines of 100 and 1,000 mg/kg, respectively.

A petroleum hydrocarbon odor and/or elevated PID readings were noted in soil

samples collected from boring AB-9 from approximately 10 to 25 feet bgs. Based on this information, Ardent advanced boring AB-9 to a depth of approximately 30 feet bgs, where PID readings indicated very low concentrations of VOCs. The sample collected at 10 feet bgs was analyzed for paint mixing COC and the sample collected at 25 feet bgs was analyzed for VOCs only. Laboratory results indicated no detectable concentrations of ethylene glycol, propylene glycol, and ester alcohol, and low concentrations of TPHd (4.2 mg/kg) and TPHo (2.3 mg/kg) range hydrocarbons; well below the RWQCB guidelines of 100 and 1,000 mg/kg, respectively. Laboratory results also indicated no detectable concentrations of VOCs. Based on this information, there is a low likelihood that elevated concentrations of paint mixing COC and VOCs are present in the vicinity of the former ASTs, and therefore, these features would no longer be considered an environmental concern to the site.

5.3.7. Former Hazardous Materials Storage Areas (REC7)

The former hazardous materials storage areas, as presented in the Phase I ESA, included the former waste drum storage area and raw materials storage area (Figure 2). Although soil gas surveys were historically completed in the vicinity of these features, no paint mixing COC were analyzed in soil samples in this area.

Ardent advanced four soil borings designated AB-12, -13, -14, and -15 in the vicinity of these features (Figure 2). These borings were drilled to depths of approximately 10 feet bgs and no odorous or stained soil was encountered. Because these features were aboveground, Ardent chose the 5-foot samples in these borings for chemical analyses. Laboratory results indicated no detectable concentrations of ethylene glycol, propylene glycol, and ester alcohol, and low concentrations of TPHd (up to 2.8 mg/kg) and TPHo (up to 1.9 mg/kg) range hydrocarbons; well below the RWQCB guidelines of 100 and 1,000 mg/kg, respectively. In addition, laboratory reports indicated low concentrations of toluene, well below the RWQCB guidelines. No other VOCs were reported. Based on this information, there is a low likelihood that elevated concentrations of paint mixing COC or VOCs are present in the vicinity

of the former hazardous materials storage areas, and therefore, these features would no longer be considered an environmental concern to the site.

6. CONCLUSIONS

Based upon the results of this and other investigations completed at the site, the following conclusions are provided.

- The site was used for agricultural purposes or vacant land from at least 1924 to the mid-1960s. The current site building was constructed in 1967-1968 and was occupied by paint mixing companies until at least 1996. The site was then used for computer assembly and furniture distribution companies until April 2008. Currently, the on-site building is vacant.

- In 1986, groundwater was reported at approximately 29 feet bgs in an on-site groundwater monitoring well. The groundwater well was abandoned in 1995. In 2006, groundwater was reported at depths of approximately 41 to 42 feet bgs at a close by property. Groundwater was reported to flow in a northwesterly direction.

- As part of the paint mixing operations, chemicals (e.g., ethylene glycol, propylene glycol, paint thinner, and Texanol [aka ester alcohol]) were brought to the site and stored in five USTs. Another UST was used to store diesel fuel. The USTs were clustered in the southeastern portion of the site. Paint chemicals brought to the site were mixed in ASTs placed in concrete-lined mixing pits located within the building. The paint was then placed in underground paint vats, also located within the building, and containerized for shipment. Wastewater and liquids produced by these operations traveled through a clarifier. In 1986, the USTs were removed and replaced with a number of ASTs. At this time, an AST and associated dispenser was also used for truck fueling purposes (i.e. diesel fuel). During these operations, hazardous materials were stored in the western portion of the site. Based on the results of the Phase I ESA, RECs included the former diesel AST and associated dispenser (referred to as REC1), former USTs (referred to as REC2), former paint mixing vats (referred to as REC3); former paint vats (referred to as REC4); former clarifier (referred to as REC5); former ASTs (referred to as REC6); and the former hazardous materials storage areas (referred to as REC7). Based on these findings, Ardent recommended completing a subsurface investigation in the vicinity of these features.

- **Former Diesel AST and Dispenser (REC1)** – Based on the results of the Phase I ESA, no investigations had been completed in the location of the former diesel AST and associated dispenser. Based on this information, Ardent advanced one soil boring in the location of these features. Laboratory results of a soil sample collected at 5 feet bgs indicated low concentrations of diesel fuel range hydrocarbons (2.1 mg/kg versus RWQCB cleanup guidelines of 100 mg/kg) and no detectable concentrations of VOCs, including fuel oxygenates. Based on this information, there is a low likelihood that elevated concentrations

of diesel fuel range hydrocarbons or VOCs are present in the vicinity of the former diesel fuel AST and associated dispenser, and therefore, these features would no longer be considered an environmental concern to the site.

- **Former USTs (REC2)** - Laboratory results of confirmation soil samples collected in 1986 within the UST excavation indicated residual concentrations of petroleum hydrocarbons. Although the remaining petroleum hydrocarbon concentrations slightly exceed current RWQCB guidelines, Ardent concurred that no further remediation was necessary. However, confirmation sampling did not include VOCs (an analysis typically required by the RWQCB for paint thinner and diesel fuel USTs). Based on this information, Ardent advanced two soil borings in the location of the former paint thinner USTs and diesel fuel UST. Laboratory results of soil samples collected at 15 feet bgs indicated no detectable concentrations of VOCs. Based on this information, there is a low likelihood that elevated concentrations of VOCs are present in the vicinity of the former USTs, and therefore, these features would no longer be considered an environmental concern to the site.

- **Former Paint Mixing Vats (REC3), Former Paint Vats (REC4), Former Clarifier (REC5); Former ASTs (REC6), and Former Hazardous Materials Storage Areas (REC7)** - Historically, limited soil gas surveys were completed in selected areas of the site to assess whether possible VOCs and petroleum hydrocarbon contaminants were present. There were no investigations to assess whether other paint mixing COC (such as petroleum hydrocarbons [i.e. paint thinner], ethylene glycol, propylene glycol, and ester alcohol) were present in the areas of the former paint mixing pits, the former paint vats, the former ASTs, and the hazardous materials storage area. Based on this information, Ardent completed a subsurface investigation in the location of these features. Laboratory reports of soil samples indicated no detectable to low concentrations of paint mixing COC or VOCs associated with these features. Based on this information, there is a low likelihood that elevated concentrations of paint mixing COC or VOCs are present in the vicinity of the former paint mixing pits, the former paint vats, the former ASTs, and the hazardous materials storage area, and therefore, these features would no longer be considered an environmental concern to the site.

- The site is located in the San Gabriel Valley Groundwater Basin within the Puente Valley Operable Unit. Portions of the San Gabriel Valley Groundwater Basin have been listed on the NPL, or Superfund Site. Portions of the Puente Valley Operable Unit are contaminated with VOCs, namely the chlorinated solvents TCE and PCE. In 1986, a groundwater well was installed at the site to further assess groundwater conditions. Laboratory results confirmed that groundwater beneath the site is impacted with VOCs, namely PCE. In the early and mid-1990s as part of the RWQCB WIP, two soil gas surveys were required by the RWQCB in an effort to assess whether the site had contributed to the regional groundwater issues. Although PCE was detected in a number of soil gas samples, the results were assessed to have been possibly caused by off-gassing from contaminants in groundwater. This oversight and further investigation also encompassed the closure of the USTs and clarifier. Based on the results, the RWQCB issued a NFA letter for the site dated January 17, 1996. Based on our review of

historical data as well as soil data collected during this assessment (as discussed above), Ardent concurs with the RWQCB that there is a low likelihood that the site has contributed to the regional groundwater VOC issue.

- However, current ASTM standards require the evaluation of possible vapor intrusion into existing and planned buildings from known contaminants beneath the site. Possible vapor intrusion assessments were not required during the time the previous on-site soil gas investigations were performed. Based on this information, Ardent completed a soil gas survey throughout the site. Laboratory results indicated concentrations of certain VOCs (namely benzene and PCE) in soil vapor at concentrations exceeding the CHHSLs outlined by Cal-EPA. Ardent subsequently completed a limited HRA using site specific and default values. Based on the results of the HRA, the residual concentrations of VOCs in soil vapor do not pose an unacceptable health risk to future on-site receptors from inhalation of indoor air.

7. RECOMMENDATIONS

Based on the results of this investigation, current regulatory guidelines and our professional judgment, Ardent has no recommendations for additional investigations or remediation at this time.

8. REFERENCES

Ardent Environmental Group, Inc. (Ardent), 2009, Phase I Environmental Site Assessment and Document Review, 111 North Hudson Avenue, City of Industry, California: Report prepared for Richards Watson & Gershon, Los Angeles, California, dated February 6.

California Environmental Protection Agency (Cal/EPA), Department of Toxic Substances Control (DTSC), 2005, Interim Final for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air, revised February 7.

Johnson, P. C, and R. A. Ettinger, 1991. Heuristic model for predicting the intrusion rate of contaminant vapors in buildings.

Regional Water Quality Control Board, Los Angeles Region (RWQCB), 1996, Interim Site Assessment & Cleanup Guidebook, dated May.

United States Environmental Protection Agency (EPA), 2002, Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance). Office of Solid Waste and Emergency Response (OSWER), dated November 29.

TABLE 1 - SUMMARY OF SOIL GAS RESULTS

Sample No.	Depth (feet bgs)	VOCs (ug/l)						
		Benzene	Ethylbenzene	Xylenes (m and p)	Xylenes (o)	PCE	Toluene	All Others
SG-1	5 (1PV)	0.12	ND<0.20	ND<0.50	ND<0.20	**0.75**	0.57	ND< Lab RL
	5 (3PV)	0.12	ND<0.20	0.53	ND<0.20	**0.72**	0.63	ND< Lab RL
	5 (7PV)	0.11	ND<0.20	0.55	ND<0.20	**0.71**	0.62	ND< Lab RL
SG-2	5	**0.17**	ND<0.20	0.64	0.23	0.15	0.81	ND< Lab RL
SG-3	5	0.1	ND<0.20	0.66	0.24	0.14	0.96	ND< Lab RL
SG-4	5	**0.15**	0.21	0.76	0.28	0.29	0.83	ND< Lab RL
SG-5	5	**0.36**	0.21	0.75	0.3	0.1	1	ND< Lab RL
SG-6	5	ND<0.10	ND<0.20	0.62	0.24	ND<0.10	0.69	ND< Lab RL
SG-7	5	**0.19**	ND<0.20	0.64	0.24	ND<0.10	0.78	ND< Lab RL
SG-8	5	**0.26**	ND<0.20	0.65	0.24	0.12	0.89	ND< Lab RL
SG-9	5	ND<0.10	ND<0.20	0.64	0.26	ND<0.10	0.72	ND< Lab RL
SG-10	5	**0.28**	0.2	0.75	0.29	ND<0.10	1.1	ND< Lab RL
SG-11	5	**0.16**	ND<0.20	0.72	0.28	ND<0.10	0.87	ND< Lab RL
SG-12	5	0.12	ND<0.20	ND<0.50	ND<0.20	ND<0.10	ND<0.50	ND< Lab RL
CHHSLs		0.122	NA	887	887	0.603	378	Various

Notes:

feet bgs - feet below the ground surface

VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B

ug/l - micrograms per liter

PCE - Tetrachloroethylene

ND - nondetectable concentration above the laboratory reporting limits

NA - not available

CHHSLs - California Human Health Screening Levels, January 2005

PV - purge volume

TABLE 2 - SUMMARY OF SOIL SAMPLE RESULTS

Sample No.	Rational	Depth (feet bgs)	TPHcc (mg/kg)			VOCs (ug/kg)	Ethylene Glycol (mg/kg)	Propylene Glycol (mg/kg)	Ester Alcohol (mg/kg)
			TPHg C_{10} - C_{12}	TPHd C_{13} - C_{22}	TPHo C_{23} - C_{32}				
AB-1	Assess whether diesel fuel-impacted soil is present in the vicinity of the former diesel AST and dispenser (REC1)	5	---	2.1	---	ND<5 to 100*	---	---	---
AB-2	Assess whether VOC-impacted soil is present in the vicinity of the paint thinner USTs (REC2)	15	---	---	---	ND<5 to 100	---	---	---
AB-3	Assess whether VOC-impacted soil is present in the vicinity of the diesel fuel UST (REC2)	15	---	---	---	ND<5 to 100	---	---	---
AB-4	Assess whether paint mixing COC-impacted soil is present in the vicinity of the former paint vats (REC4)	10	ND<1	ND<1	ND<1	ND<5 to 100	ND<200	ND<200	ND<1
AB-5	Assess whether paint mixing COC-impacted soil is present in the vicinity of the former paint mixing vats (REC3)	10	ND<1	ND<1	1.1	ND<5 to 100	ND<200	ND<200	ND<1
AB-6	Assess whether paint mixing COC-impacted soil is present in the vicinity of the former paint mixing vats (REC3)	10	ND<1	ND<1	2.6	ND<5 to 100	ND<200	ND<200	ND<1

TABLE 2 - SUMMARY OF SOIL SAMPLE RESULTS

Sample No.	Rational	Depth (feet bgs)	TPHcc (mg/kg)			VOCs (ug/kg)	Ethylene Glycol (mg/kg)	Propylene Glycol (mg/kg)	Ester Alcohol (mg/kg)
			TPHg C_{10} - C_{12}	TPHd C_{13} - C_{22}	TPHo C_{23} - C_{32}				
AB-7	Assess whether paint mixing COC-impacted soil is present in the vicinity of the former paint vats (REC4)	10	ND<1	4.2	2.7	ND<5 to 100	ND<200	ND<200	ND<1
AB-8	Assess whether paint mixing COC-impacted soil is present in the vicinity of the former clarifier (REC5)	10	ND<1	1.3	6.6	ND<5 to 100	ND<200	ND<200	ND<1
AB-9	Assess whether paint mixing COC-impacted soil is present in the vicinity of the former ASTs (REC6)	10	ND<1	4.2	2.3	ND<5 to 100	ND<200	ND<200	ND<1
		25	---	---	---	ND<5 to 100	---	---	---
AB-10	Assess whether paint mixing COC-impacted soil is present in the vicinity of the former ASTs (REC6)	5	ND<1	2.6	4.7	ND<5 to 100	ND<200	ND<200	ND<1
AB-11	Assess whether paint mixing COC-impacted soil is present in the vicinity of the former ASTs (REC6)	5	ND<1	1.9	6.4	ND<5 to 100	ND<200	ND<200	ND<1
AB-12	Assess whether paint mixing COC-impacted soil is present in the vicinity of the former waste drum storage area (generally referred to as the hazardous materials storage areas in the Phase I ESA) (REC7)	5	ND<1	ND<1	1.6	ND<5 to 100	ND<200	ND<200	ND<1

TABLE 2 - SUMMARY OF SOIL SAMPLE RESULTS

Sample No.	Rational	Depth (feet bgs)	TPHcc (mg/kg)			VOCs (ug/kg)	Ethylene Glycol (mg/kg)	Propylene Glycol (mg/kg)	Ester Alcohol (mg/kg)
			TPHg C_{10} - C_{12}	TPHd C_{13} - C_{22}	TPHo C_{23} - C_{32}				
AB-13	Assess whether paint mixing COC-impacted soil is present in the vicinity of the former waste drum storage area (generally referred to as the hazardous materials storage area in the Phase I ESA) (REC7)	5	ND<1	2.8	1.3	Toluene 0.72J All others ND<5 to 100	ND<200	ND<200	ND<1
AB-14	Assess whether paint mixing COC-impacted soil is present in the vicinity of the former raw material storage area (generally referred to as the hazardous materials storage area in the Phase I ESA) (REC7)	5	ND<1	ND<1	1.7	ND<5 to 100	ND<200	ND<200	ND<1
AB-15	Assess whether paint mixing COC-impacted soil is present in the vicinity of the former waste drum storage area (generally referred to as the hazardous materials storage area in the Phase I ESA) (REC7)	5	ND<1	2	1.9	Toluene 1.0J All others ND<5 to 100	ND<200	ND<200	ND<1

TABLE 2 - SUMMARY OF SOIL SAMPLE RESULTS

Sample No.	Rational	Depth (feet bgs)	TPHcc (mg/kg)			VOCs (ug/kg)	Ethylene Glycol (mg/kg)	Propylene Glycol (mg/kg)	Ester Alcohol (mg/kg)
			TPHg C_{10} - C_{12}	TPHd C_{13} - C_{22}	TPHo C_{23} - C_{32}				
Cleanup Guidelines			100	100	1,000	Toluene 300	NA	NA	NA

Notes:

feet bgs - feet below the ground surface

VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B

ug/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

ND - nondetectable concentration above the laboratory reporting limits

NA - not applicable or not available

TPH - total petroleum hydrocarbons analyzed in accordance with EPA Method No. 8015 (modified)

TPHg - total petroleum hydrocarbons as gasoline carbon range C5-C12

TPHd - total petroleum hydrocarbons as diesel fuel carbon range C13-C22

TPHo - total petroleum hydrocarbons as oil carbon range C23-C32

* - includes fuel oxygenates

--- - not tested

COC - chemicals of concern, including TPHcc, VOCs, ethylene glycol, propylene glycol, and ester alcohol

AST - aboveground storage tank

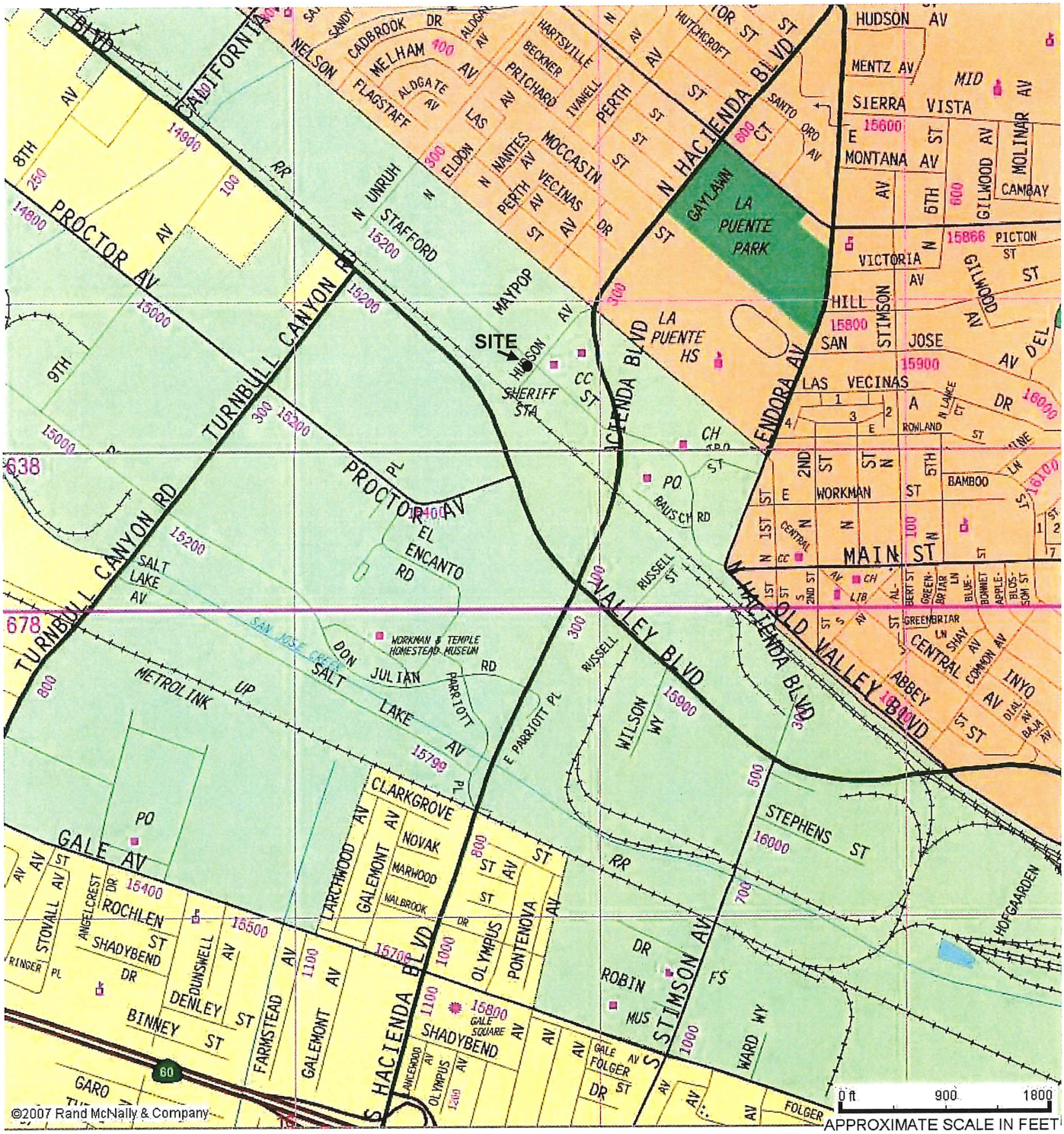
UST - underground storage tank

Phase I ESA - Phase I Environmental Site Assessment

REC - Recognized Environmental Condition as presented in the draft Phase I ESA dated January 2, 2009

Cleanup Guidelines - Based on the Regional Water Quality Control Board, Los Angeles Region Interim Site Assessment & Cleanup Guidebook dated May 1996

"J" - The "J" flag symbol is used for those results that are between the practical quantitative limit and the calculated method detection limit. Since it is difficult to accurately quantitate concentrations below the method detection limits, these values are estimates.

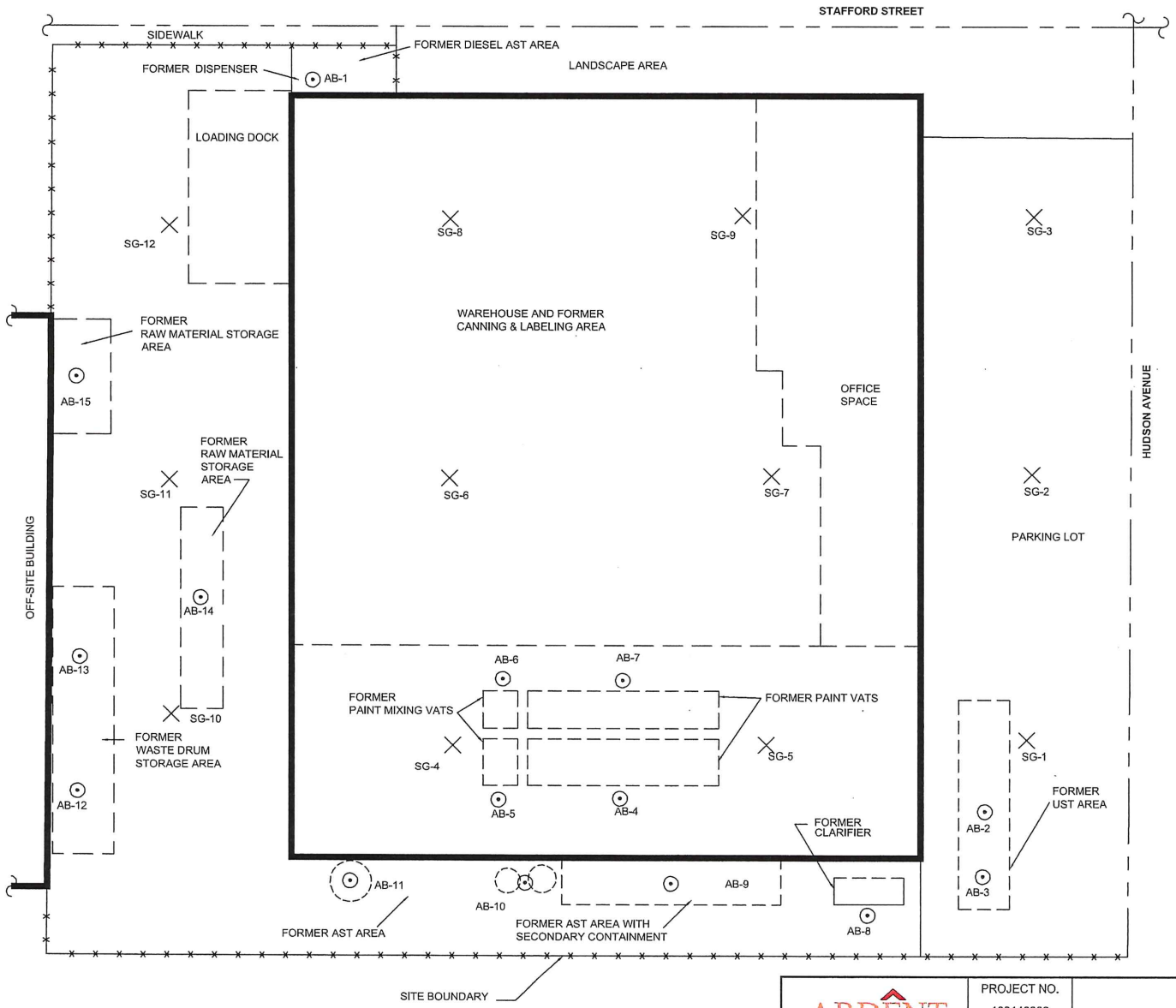


REFERENCE: 2007 RAND MCNALLY DIGITAL EDITION FOR LOS ANGELES/ORANGE COUNTY, STREET GUIDE AND DIRECTORY

N

NOTE: ALL DIMENSIONS, DIRECTIONS, AND LOCATIONS ARE APPROXIMATE

ARDENT ENVIRONMENTAL GROUP, INC.	PROJECT NO. 100148001	**SITE LOCATION MAP**	FIGURE
	DATE 12/08	111 NORTH HUDSON AVENUE CITY OF INDUSTRY, CALIFORNIA	**1**



XX.DWG

ARDENT ENVIRONMENTAL GROUP, INC.	PROJECT NO. 100148002	SITE PLAN	FIGURE
	DATE 1/09	111 NORTH HUDSON AVENUE CITY OF INDUSTRY, CALIFORNIA	2

APPENDIX A

LABORATORY REPORTS

January 22, 2009

Paul Roberts
Ardent Environmental Group
1141 Pomona Rd, Suite E
Corona, CA 92882
TEL: (951)736-5334
FAX: (951)736-7560

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
Arizona: AZ0689
CSDLAC No.: 10196
Workorder No.: 103282

RE: Hudson Avenue, 100148002

Attention: Paul Roberts

Enclosed are the results for sample(s) received on January 15, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ardent Environmental Group
Project: Hudson Avenue, 100148002
Lab Order: 103282

CASE NARRATIVE

Analytical Comments for EPA 8260B

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *22-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-1-5
Lab Order:	103282	**Collection Date:**	1/15/2009
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103282-001A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_090116A**	QC Batch: **T09VS010**				PrepDate:		Analyst: **BD**
1,1,1,2-Tetrachloroethane	ND	0.96	5.0		µg/Kg	1	1/16/2009 11:11 AM
1,1,1-Trichloroethane	ND	1.4	5.0		µg/Kg	1	1/16/2009 11:11 AM
1,1,2,2-Tetrachloroethane	ND	3.1	5.0		µg/Kg	1	1/16/2009 11:11 AM
1,1,2-Trichloroethane	ND	1.2	5.0		µg/Kg	1	1/16/2009 11:11 AM
1,1-Dichloroethane	ND	0.61	5.0		µg/Kg	1	1/16/2009 11:11 AM
1,1-Dichloroethene	ND	0.45	5.0		µg/Kg	1	1/16/2009 11:11 AM
1,1-Dichloropropene	ND	2.1	5.0		µg/Kg	1	1/16/2009 11:11 AM
1,2,3-Trichlorobenzene	ND	3.7	5.0		µg/Kg	1	1/16/2009 11:11 AM
1,2,3-Trichloropropane	ND	2.3	5.0		µg/Kg	1	1/16/2009 11:11 AM
1,2,4-Trichlorobenzene	ND	2.3	5.0		µg/Kg	1	1/16/2009 11:11 AM
1,2,4-Trimethylbenzene	ND	1.0	5.0		µg/Kg	1	1/16/2009 11:11 AM
1,2-Dibromo-3-chloropropane	ND	3.2	10		µg/Kg	1	1/16/2009 11:11 AM
1,2-Dibromoethane	ND	0.97	5.0		µg/Kg	1	1/16/2009 11:11 AM
1,2-Dichlorobenzene	ND	2.1	5.0		µg/Kg	1	1/16/2009 11:11 AM
1,2-Dichloroethane	ND	1.8	5.0		µg/Kg	1	1/16/2009 11:11 AM
1,2-Dichloropropane	ND	1.6	5.0		µg/Kg	1	1/16/2009 11:11 AM
1,3,5-Trimethylbenzene	ND	0.78	5.0		µg/Kg	1	1/16/2009 11:11 AM
1,3-Dichlorobenzene	ND	1.7	5.0		µg/Kg	1	1/16/2009 11:11 AM
1,3-Dichloropropane	ND	0.32	5.0		µg/Kg	1	1/16/2009 11:11 AM
1,4-Dichlorobenzene	ND	1.8	5.0		µg/Kg	1	1/16/2009 11:11 AM
2,2-Dichloropropane	ND	0.48	5.0		µg/Kg	1	1/16/2009 11:11 AM
2-Chlorotoluene	ND	0.89	5.0		µg/Kg	1	1/16/2009 11:11 AM
4-Chlorotoluene	ND	1.1	5.0		µg/Kg	1	1/16/2009 11:11 AM
4-Isopropyltoluene	ND	1.1	5.0		µg/Kg	1	1/16/2009 11:11 AM
Benzene	ND	0.64	5.0		µg/Kg	1	1/16/2009 11:11 AM
Bromobenzene	ND	1.3	5.0		µg/Kg	1	1/16/2009 11:11 AM
Bromodichloromethane	ND	1.3	5.0		µg/Kg	1	1/16/2009 11:11 AM
Bromoform	ND	2.0	5.0		µg/Kg	1	1/16/2009 11:11 AM
Bromomethane	ND	0.68	5.0		µg/Kg	1	1/16/2009 11:11 AM
Carbon tetrachloride	ND	1.4	5.0		µg/Kg	1	1/16/2009 11:11 AM
Chlorobenzene	ND	0.65	5.0		µg/Kg	1	1/16/2009 11:11 AM
Chloroethane	ND	0.87	5.0		µg/Kg	1	1/16/2009 11:11 AM
Chloroform	ND	1.5	5.0		µg/Kg	1	1/16/2009 11:11 AM
Chloromethane	ND	0.38	5.0		µg/Kg	1	1/16/2009 11:11 AM
cis-1,2-Dichloroethene	ND	1.8	5.0		µg/Kg	1	1/16/2009 11:11 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *22-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-1-5
Lab Order:	103282	**Collection Date:**	1/15/2009
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103282-001A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_090116A**	QC Batch: **T09VS010**				PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.75	5.0		µg/Kg	1	1/16/2009 11:11 AM
Di-isopropyl ether	ND	0.41	5.0		µg/Kg	1	1/16/2009 11:11 AM
Dibromochloromethane	ND	0.72	5.0		µg/Kg	1	1/16/2009 11:11 AM
Dibromomethane	ND	1.2	5.0		µg/Kg	1	1/16/2009 11:11 AM
Dichlorodifluoromethane	ND	0.54	5.0		µg/Kg	1	1/16/2009 11:11 AM
Ethyl Tert-butyl ether	ND	1.4	5.0		µg/Kg	1	1/16/2009 11:11 AM
Ethylbenzene	ND	0.32	5.0		µg/Kg	1	1/16/2009 11:11 AM
Hexachlorobutadiene	ND	2.2	5.0		µg/Kg	1	1/16/2009 11:11 AM
Isopropylbenzene	ND	0.57	5.0		µg/Kg	1	1/16/2009 11:11 AM
m,p-Xylene	ND	0.69	10		µg/Kg	1	1/16/2009 11:11 AM
Methylene chloride	ND	5.0	5.0		µg/Kg	1	1/16/2009 11:11 AM
MTBE	ND	0.98	5.0		µg/Kg	1	1/16/2009 11:11 AM
n-Butylbenzene	ND	1.2	5.0		µg/Kg	1	1/16/2009 11:11 AM
n-Propylbenzene	ND	0.68	5.0		µg/Kg	1	1/16/2009 11:11 AM
Naphthalene	ND	2.5	5.0		µg/Kg	1	1/16/2009 11:11 AM
o-Xylene	ND	0.50	5.0		µg/Kg	1	1/16/2009 11:11 AM
sec-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/16/2009 11:11 AM
Styrene	ND	0.60	5.0		µg/Kg	1	1/16/2009 11:11 AM
Tert-amyl methyl ether	ND	1.4	5.0		µg/Kg	1	1/16/2009 11:11 AM
Tert-Butanol	ND	20	100		µg/Kg	1	1/16/2009 11:11 AM
tert-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/16/2009 11:11 AM
Tetrachloroethene	ND	1.0	5.0		µg/Kg	1	1/16/2009 11:11 AM
Toluene	ND	0.56	5.0		µg/Kg	1	1/16/2009 11:11 AM
trans-1,2-Dichloroethene	ND	0.53	5.0		µg/Kg	1	1/16/2009 11:11 AM
Trichloroethene	ND	1.5	5.0		µg/Kg	1	1/16/2009 11:11 AM
Trichlorofluoromethane	ND	0.55	5.0		µg/Kg	1	1/16/2009 11:11 AM
Vinyl chloride	ND	0.42	5.0		µg/Kg	1	1/16/2009 11:11 AM
Surr: 1,2-Dichloroethane-d4	98.5	0	70-130		%REC	1	1/16/2009 11:11 AM
Surr: 4-Bromofluorobenzene	104	0	70-130		%REC	1	1/16/2009 11:11 AM
Surr: Dibromofluoromethane	96.1	0	70-130		%REC	1	1/16/2009 11:11 AM
Surr: Toluene-d8	98.8	0	70-130		%REC	1	1/16/2009 11:11 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *22-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-1-5
Lab Order:	103282	**Collection Date:**	1/15/2009
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103282-001A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B(M)**		
RunID: GC16_090122A	QC Batch: 52365			PrepDate:	1/21/2009	Analyst: **CBR**
DRO	2.1	1.0		mg/Kg	1	1/22/2009 10:26 AM
Surr: p-Terphenyl	80.2	30-130		%REC	1	1/22/2009 10:26 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Ardent Environmental Group
Work Order: 103282
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DSL LL

Sample ID: **MB-52365** SampType: **MBLK** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104748**
Client ID: **PBS** Batch ID: **52365** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **1/22/2009** SeqNo: **1638390**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	1.0									
Surr: p-Terphenyl	2.059		2.670		77.1	30	130				

Sample ID: **LCS-52365** SampType: **LCS** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104748**
Client ID: **LCSS** Batch ID: **52365** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **1/22/2009** SeqNo: **1638391**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	32.299	1.0	33.00	0	97.9	35	124				
Surr: p-Terphenyl	2.024		2.670		75.8	30	130				

Sample ID: **103310-004AMS** SampType: **MS** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104748**
Client ID: **ZZZZZZ** Batch ID: **52365** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **1/22/2009** SeqNo: **1638395**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	26.846	1.0	33.00	2.826	72.8	12	125				
Surr: p-Terphenyl	1.845		2.670		69.1	30	130				

Sample ID: **103310-004AMSD** SampType: **MSD** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104748**
Client ID: **ZZZZZZ** Batch ID: **52365** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **1/22/2009** SeqNo: **1638398**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	28.420	1.0	33.00	2.826	77.6	12	125	26.85	5.69	20	
Surr: p-Terphenyl	2.100		2.670		78.6	30	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ardent Environmental Group
Work Order: 103282
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **T090116LC1** SampType: **LCS** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104511**
Client ID: **LCSS** Batch ID: **T09VS010** TestNo: **EPA 8260B** Analysis Date: **1/16/2009** SeqNo: **1634122**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	52.220	5.0	50.00	0	104	70	130				
Benzene	103.800	5.0	100.0	0	104	70	130				
Chlorobenzene	51.000	5.0	50.00	0	102	70	130				
MTBE	47.670	5.0	50.00	0	95.3	70	130				
Toluene	103.470	5.0	100.0	0	103	70	130				
Trichloroethene	51.320	5.0	50.00	0	103	70	130				
Surr: 1,2-Dichloroethane-d4	46.050		50.00		92.1	70	130				
Surr: 4-Bromofluorobenzene	53.030		50.00		106	70	130				
Surr: Dibromofluoromethane	44.670		50.00		89.3	70	130				
Surr: Toluene-d8	48.060		50.00		96.1	70	130				

Sample ID: **T090116MB2MS** SampType: **MS** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104511**
Client ID: **ZZZZZZ** Batch ID: **T09VS010** TestNo: **EPA 8260B** Analysis Date: **1/16/2009** SeqNo: **1634123**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	48.840	5.0	50.00	0	97.7	70	130				
Benzene	102.780	5.0	100.0	0	103	70	130				
Chlorobenzene	51.550	5.0	50.00	0	103	70	130				
MTBE	44.760	5.0	50.00	0	89.5	70	130				
Toluene	102.850	5.0	100.0	0	103	70	130				
Trichloroethene	50.780	5.0	50.00	0	102	70	130				
Surr: 1,2-Dichloroethane-d4	44.440		50.00		88.9	70	130				
Surr: 4-Bromofluorobenzene	53.900		50.00		108	70	130				
Surr: Dibromofluoromethane	42.750		50.00		85.5	70	130				
Surr: Toluene-d8	47.740		50.00		95.5	70	130				

Sample ID: **T090116MB2MSD** SampType: **MSD** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104511**
Client ID: **ZZZZZZ** Batch ID: **T09VS010** TestNo: **EPA 8260B** Analysis Date: **1/16/2009** SeqNo: **1634124**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ardent Environmental Group
Work Order: 103282
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **T090116MB2MSD** SampType: **MSD** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104511**
Client ID: **ZZZZZZ** Batch ID: **T09VS010** TestNo: **EPA 8260B** Analysis Date: **1/16/2009** SeqNo: **1634124**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	48.240	5.0	50.00	0	96.5	70	130	48.84	1.24	20	
Benzene	99.410	5.0	100.0	0	99.4	70	130	102.8	3.33	20	
Chlorobenzene	50.010	5.0	50.00	0	100	70	130	51.55	3.03	20	
MTBE	43.630	5.0	50.00	0	87.3	70	130	44.76	2.56	20	
Toluene	98.940	5.0	100.0	0	98.9	70	130	102.8	3.88	20	
Trichloroethene	48.430	5.0	50.00	0	96.9	70	130	50.78	4.74	20	
Surr: 1,2-Dichloroethane-d4	43.290		50.00		86.6	70	130		0	20	
Surr: 4-Bromofluorobenzene	51.700		50.00		103	70	130		0	20	
Surr: Dibromofluoromethane	42.070		50.00		84.1	70	130		0	20	
Surr: Toluene-d8	46.210		50.00		92.4	70	130		0	20	

Sample ID: **T090116MB2** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104511**
Client ID: **PBS** Batch ID: **T09VS010** TestNo: **EPA 8260B** Analysis Date: **1/16/2009** SeqNo: **1634125**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ardent Environmental Group
Work Order: 103282
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **T090116MB2** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104511**
Client ID: **PBS** Batch ID: **T09VS010** TestNo: **EPA 8260B** Analysis Date: **1/16/2009** SeqNo: **1634125**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Di-isopropyl ether	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethyl Tert-butyl ether	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Ardent Environmental Group
Work Order: 103282
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **T090116MB2** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104511**
Client ID: **PBS** Batch ID: **T09VS010** TestNo: **EPA 8260B** Analysis Date: **1/16/2009** SeqNo: **1634125**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
Tert-amyl methyl ether	ND	5.0									
Tert-Butanol	ND	100									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	46.970		50.00		93.9	70	130				
Surr: 4-Bromofluorobenzene	51.310		50.00		103	70	130				
Surr: Dibromofluoromethane	44.860		50.00		89.7	70	130				
Surr: Toluene-d8	49.940		50.00		99.9	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CHAIN OF CUSTODY RECORD

Pg 1 of 1

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#:

Logged By: K Date: 1/15/09

Method of Transport: Client ☑ ATL ☐ CA OverN ☐ FEDEX ☐ Other:

Sample Condition Upon Receipt: 1. CHILLED 5.4°C Y☑ N☐ 4. SEALED Y☐ N☐ 2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐ 3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client: Ardent Environmental Group
Attn: Paul Roberts
Address: 1141 Pomona Rd, Suite E
City Corona State CA Zip Code 92882
TEL: (951) 736-5334
FAX: ( )

Project Name: Hudson Avenue Project #: 160148002 Sampler: (Printed Name) Paul Roberts (Signature) Paul Roberts

Relinquished by: (Signature and Printed Name) Paul Roberts Date: 1-15-09 Time: 12:50 Received by: (Signature and Printed Name) [illegible] Date: 1/15/09 Time: 1250

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Paul Roberts 1-15-09
Print Name Date
Paul Roberts
Signature

Send Report To:
Attn:
Co:
Address
City State Zip

Bill To:
Attn:
Co:
Address
City State Zip

Special Instructions/Comments:
- Use RWQCB detection limits

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles) + Oxygenates	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	103282-001A	AB-1-5	1/15			X				X				X				E	1	TM		

Q A / Q C: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

- TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

January 23, 2009

Mr. Paul Roberts
Ardent Environmental Group, Inc.
1141 Pomona Road, Suite E
Corona, California 92882

RE: 111 North Hudson Avenue, City of Industry

Enclosed are the results of analyses for soil gas samples received by Environmental Support Technologies laboratory on 01/15/09 14:35. The analyses were performed according to the prescribed method as outlined by EPA. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ragi W. Abraham

Ragi W. Abraham
Laboratory Director

Environmental Support Technologies laboratories are certified by the California Department of Health Services (CDHS), Environmental Laboratory Accreditation Program (ELAP) No's. 1996, 2511, and 2631.

360 Goddard, Irvine, California 92618
Telephone: (949) 679-9500 Fax: (949) 679-9501

Ardent Environmental Group, Inc. 1141 Pomona Road, Suite E Corona, California 92882	Project: 111 North Hudson Avenue, City of Industry Project Number: EST2778 Project Manager: Mr. Paul Roberts	**Reported:** 23-Jan-09 10:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Analyzed
SG-1-5 (1PV)	2A91501-01	Air	15-Jan-09 08:30	15-Jan-09 08:46
SG-1-5 (3PV)	2A91501-02	Air	15-Jan-09 08:31	15-Jan-09 09:11
SG-1-5 (7PV)	2A91501-03	Air	15-Jan-09 08:33	15-Jan-09 09:36
SG-2-5	2A91501-04	Air	15-Jan-09 09:49	15-Jan-09 10:05
SG-3-5	2A91501-05	Air	15-Jan-09 10:40	15-Jan-09 10:56
SG-4-5	2A91501-06	Air	15-Jan-09 11:05	15-Jan-09 11:21
SG-5-5	2A91501-07	Air	15-Jan-09 11:31	15-Jan-09 11:47
SG-6-5	2A91501-08	Air	15-Jan-09 11:57	15-Jan-09 12:13
SG-7-5	2A91501-09	Air	15-Jan-09 12:21	15-Jan-09 12:38
SG-8-5	2A91501-10	Air	15-Jan-09 12:48	15-Jan-09 13:04
SG-9-5	2A91501-11	Air	15-Jan-09 13:13	15-Jan-09 13:29
SG-10-5	2A91501-12	Air	15-Jan-09 13:39	15-Jan-09 13:55
SG-11-5	2A91501-13	Air	15-Jan-09 14:04	15-Jan-09 14:20
SG-12-5	2A91501-14	Air	15-Jan-09 14:30	15-Jan-09 14:46

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360 Goddard, Irvine, California 92618
Telephone: (949) 679-9500 Fax: (949) 679-9501

Ardent Environmental Group, Inc. 1141 Pomona Road, Suite E Corona, California 92882	Project: 111 North Hudson Avenue, City of Industry Project Number: EST2778 Project Manager: Mr. Paul Roberts	**Reported:** 23-Jan-09 10:27

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG-1-5 (1PV) (2A91501-01) Air Sampled: 01/15/09 08:30 Analyzed: 01/15/09 08:46									
1,1,1,2-Tetrachloroethane	ND	0.20	ug/l	1	29A1501	01/15/09	01/15/09	EPA 8260B	
1,1,1-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.20	"	"	"	"	"	"	
Benzene	**0.12**	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.20	"	"	"	"	"	"	
Chloroethane	ND	0.20	"	"	"	"	"	"	
Chloroform	ND	0.20	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
'lorodifluoromethane	ND	0.20	"	"	"	"	"	"	
ylbenzene	ND	0.20	"	"	"	"	"	"	
meta- and para-Xylenes	ND	0.50	"	"	"	"	"	"	
Methylene Chloride	ND	0.20	"	"	"	"	"	"	
ortho-Xylene	ND	0.20	"	"	"	"	"	"	
Tetrachloroethene	**0.75**	0.10	"	"	"	"	"	"	
Toluene	**0.57**	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.20	"	"	"	"	"	"	
Vinyl Chloride	ND	0.10	"	"	"	"	"	"	
2-Propanol	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*89.8 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*96.5 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.8 %*	*75-125*		"	"	"	"	

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Ardent Environmental Group, Inc. 1141 Pomona Road, Suite E Corona, California 92882	Project: 111 North Hudson Avenue, City of Industry Project Number: EST2778 Project Manager: Mr. Paul Roberts	**Reported:** 23-Jan-09 10:27

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG-1-5 (3PV) (2A91501-02) Air Sampled: 01/15/09 08:31 Analyzed: 01/15/09 09:11									
1,1,1,2-Tetrachloroethane	ND	0.20	ug/l	1	29A1501	01/15/09	01/15/09	EPA 8260B	
1,1,1-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.20	"	"	"	"	"	"	
Benzene	**0.12**	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.20	"	"	"	"	"	"	
Chloroethane	ND	0.20	"	"	"	"	"	"	
Chloroform	ND	0.20	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
chlorodifluoromethane	ND	0.20	"	"	"	"	"	"	
hylbenzene	ND	0.20	"	"	"	"	"	"	
meta- and para-Xylenes	**0.53**	0.50	"	"	"	"	"	"	
Methylene Chloride	ND	0.20	"	"	"	"	"	"	
ortho-Xylene	ND	0.20	"	"	"	"	"	"	
Tetrachloroethene	**0.72**	0.10	"	"	"	"	"	"	
Toluene	**0.63**	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.20	"	"	"	"	"	"	
Vinyl Chloride	ND	0.10	"	"	"	"	"	"	
2-Propanol	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*89.4 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*97.4 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.4 %*	*75-125*		"	"	"	"	

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Ardent Environmental Group, Inc. 1141 Pomona Road, Suite E Corona, California 92882	Project: 111 North Hudson Avenue, City of Industry Project Number: EST2778 Project Manager: Mr. Paul Roberts	**Reported:** 23-Jan-09 10:27

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG-1-5 (7PV) (2A91501-03) Air Sampled: 01/15/09 08:33 Analyzed: 01/15/09 09:36									
1,1,1,2-Tetrachloroethane	ND	0.20	ug/l	1	29A1501	01/15/09	01/15/09	EPA 8260B	
1,1,1-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.20	"	"	"	"	"	"	
Benzene	**0.11**	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.20	"	"	"	"	"	"	
Chloroethane	ND	0.20	"	"	"	"	"	"	
Chloroform	ND	0.20	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.20	"	"	"	"	"	"	
Ethylbenzene	ND	0.20	"	"	"	"	"	"	
meta- and para-Xylenes	**0.55**	0.50	"	"	"	"	"	"	
Methylene Chloride	ND	0.20	"	"	"	"	"	"	
ortho-Xylene	ND	0.20	"	"	"	"	"	"	
Tetrachloroethene	**0.71**	0.10	"	"	"	"	"	"	
Toluene	**0.62**	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.20	"	"	"	"	"	"	
Vinyl Chloride	ND	0.10	"	"	"	"	"	"	
2-Propanol	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*88.9 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*96.1 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.5 %*	*75-125*		"	"	"	"	

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Ardent Environmental Group, Inc. 1141 Pomona Road, Suite E Corona, California 92882	Project: 111 North Hudson Avenue, City of Industry Project Number: EST2778 Project Manager: Mr. Paul Roberts	**Reported:** 23-Jan-09 10:27

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG-2-5 (2A91501-04) Air Sampled: 01/15/09 09:49 Analyzed: 01/15/09 10:05									
1,1,1,2-Tetrachloroethane	ND	0.20	ug/l	1	29A1501	01/15/09	01/15/09	EPA 8260B	
1,1,1-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.20	"	"	"	"	"	"	
Benzene	**0.17**	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.20	"	"	"	"	"	"	
Chloroethane	ND	0.20	"	"	"	"	"	"	
Chloroform	ND	0.20	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.20	"	"	"	"	"	"	
Ethylbenzene	ND	0.20	"	"	"	"	"	"	
meta- and para-Xylenes	**0.64**	0.50	"	"	"	"	"	"	
Methylene Chloride	ND	0.20	"	"	"	"	"	"	
ortho-Xylene	**0.23**	0.20	"	"	"	"	"	"	
Tetrachloroethene	**0.15**	0.10	"	"	"	"	"	"	
Toluene	**0.81**	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.20	"	"	"	"	"	"	
Vinyl Chloride	ND	0.10	"	"	"	"	"	"	
2-Propanol	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*87.5 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*97.5 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.8 %*		*75-125*	"	"	"	"	

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Ardent Environmental Group, Inc. 1141 Pomona Road, Suite E Corona, California 92882	Project: 111 North Hudson Avenue, City of Industry Project Number: EST2778 Project Manager: Mr. Paul Roberts	**Reported:** 23-Jan-09 10:27

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG-3-5 (2A91501-05) Air Sampled: 01/15/09 10:40 Analyzed: 01/15/09 10:56									
1,1,1,2-Tetrachloroethane	ND	0.20	ug/l	1	29A1501	01/15/09	01/15/09	EPA 8260B	
1,1,1-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.20	"	"	"	"	"	"	
Benzene	**0.10**	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.20	"	"	"	"	"	"	
Chloroethane	ND	0.20	"	"	"	"	"	"	
Chloroform	ND	0.20	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
hlorodifluoromethane	ND	0.20	"	"	"	"	"	"	
ylbenzene	ND	0.20	"	"	"	"	"	"	
meta- and para-Xylenes	**0.66**	0.50	"	"	"	"	"	"	
Methylene Chloride	ND	0.20	"	"	"	"	"	"	
ortho-Xylene	**0.24**	0.20	"	"	"	"	"	"	
Tetrachloroethene	**0.14**	0.10	"	"	"	"	"	"	
Toluene	**0.96**	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.20	"	"	"	"	"	"	
Vinyl Chloride	ND	0.10	"	"	"	"	"	"	
2-Propanol	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*88.6 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*97.4 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*75-125*		"	"	"	"	

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Ardent Environmental Group, Inc. 1141 Pomona Road, Suite E Corona, California 92882	Project: 111 North Hudson Avenue, City of Industry Project Number: EST2778 Project Manager: Mr. Paul Roberts	**Reported:** 23-Jan-09 10:27

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG-4-5 (2A91501-06) Air Sampled: 01/15/09 11:05 Analyzed: 01/15/09 11:21									
1,1,1,2-Tetrachloroethane	ND	0.20	ug/l	1	29A1501	01/15/09	01/15/09	EPA 8260B	
1,1,1-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.20	"	"	"	"	"	"	
Benzene	**0.15**	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.20	"	"	"	"	"	"	
Chloroethane	ND	0.20	"	"	"	"	"	"	
Chloroform	ND	0.20	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.20	"	"	"	"	"	"	
Ethylbenzene	**0.21**	0.20	"	"	"	"	"	"	
meta- and para-Xylenes	**0.76**	0.50	"	"	"	"	"	"	
Methylene Chloride	ND	0.20	"	"	"	"	"	"	
ortho-Xylene	**0.28**	0.20	"	"	"	"	"	"	
Tetrachloroethene	**0.29**	0.10	"	"	"	"	"	"	
Toluene	**0.83**	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.20	"	"	"	"	"	"	
Vinyl Chloride	ND	0.10	"	"	"	"	"	"	
2-Propanol	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*89.6 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*94.0 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*		*75-125*	"	"	"	"	

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Ardent Environmental Group, Inc. 1141 Pomona Road, Suite E Corona, California 92882	Project: 111 North Hudson Avenue, City of Industry Project Number: EST2778 Project Manager: Mr. Paul Roberts	**Reported:** 23-Jan-09 10:27

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG-5-5 (2A91501-07) Air Sampled: 01/15/09 11:31 Analyzed: 01/15/09 11:47									
1,1,1,2-Tetrachloroethane	ND	0.20	ug/l	1	29A1501	01/15/09	01/15/09	EPA 8260B	
1,1,1-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.20	"	"	"	"	"	"	
Benzene	**0.36**	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.20	"	"	"	"	"	"	
Chloroethane	ND	0.20	"	"	"	"	"	"	
Chloroform	ND	0.20	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Chlorodifluoromethane	ND	0.20	"	"	"	"	"	"	
Ethylbenzene	**0.21**	0.20	"	"	"	"	"	"	
meta- and para-Xylenes	**0.75**	0.50	"	"	"	"	"	"	
Methylene Chloride	ND	0.20	"	"	"	"	"	"	
ortho-Xylene	**0.30**	0.20	"	"	"	"	"	"	
Tetrachloroethene	**0.10**	0.10	"	"	"	"	"	"	
Toluene	**1.0**	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.20	"	"	"	"	"	"	
Vinyl Chloride	ND	0.10	"	"	"	"	"	"	
2-Propanol	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*87.4 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*96.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.5 %*		*75-125*	"	"	"	"	

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Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG-6-5 (2A91501-08) Air Sampled: 01/15/09 11:57 Analyzed: 01/15/09 12:13									
1,1,1,2-Tetrachloroethane	ND	0.20	ug/l	1	29A1501	01/15/09	01/15/09	EPA 8260B	
1,1,1-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.20	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.20	"	"	"	"	"	"	
Chloroethane	ND	0.20	"	"	"	"	"	"	
Chloroform	ND	0.20	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.20	"	"	"	"	"	"	
Ethylbenzene	ND	0.20	"	"	"	"	"	"	
meta- and para-Xylenes	**0.62**	0.50	"	"	"	"	"	"	
Methylene Chloride	ND	0.20	"	"	"	"	"	"	
ortho-Xylene	**0.24**	0.20	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	**0.69**	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.20	"	"	"	"	"	"	
Vinyl Chloride	ND	0.10	"	"	"	"	"	"	
2-Propanol	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*90.8 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*95.0 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*		*75-125*	"	"	"	"	

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Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG-7-5 (2A91501-09) Air Sampled: 01/15/09 12:21 Analyzed: 01/15/09 12:38									
1,1,1,2-Tetrachloroethane	ND	0.20	ug/l	1	29A1501	01/15/09	01/15/09	EPA 8260B	
1,1,1-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.20	"	"	"	"	"	"	
Benzene	**0.19**	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.20	"	"	"	"	"	"	
Chloroethane	ND	0.20	"	"	"	"	"	"	
Chloroform	ND	0.20	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
hlorodifluoromethane	ND	0.20	"	"	"	"	"	"	
ylbenzene	ND	0.20	"	"	"	"	"	"	
meta- and para-Xylenes	**0.64**	0.50	"	"	"	"	"	"	
Methylene Chloride	ND	0.20	"	"	"	"	"	"	
ortho-Xylene	**0.24**	0.20	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	**0.78**	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.20	"	"	"	"	"	"	
Vinyl Chloride	ND	0.10	"	"	"	"	"	"	
2-Propanol	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*89.3 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*97.5 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.0 %*	*75-125*		"	"	"	"	

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Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG-8-5 (2A91501-10) Air Sampled: 01/15/09 12:48 Analyzed: 01/15/09 13:04									
1,1,1,2-Tetrachloroethane	ND	0.20	ug/l	1	29A1501	01/15/09	01/15/09	EPA 8260B	
1,1,1-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.20	"	"	"	"	"	"	
Benzene	**0.26**	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.20	"	"	"	"	"	"	
Chloroethane	ND	0.20	"	"	"	"	"	"	
Chloroform	ND	0.20	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
ichlorodifluoromethane	ND	0.20	"	"	"	"	"	"	
thylbenzene	ND	0.20	"	"	"	"	"	"	
meta- and para-Xylenes	**0.65**	0.50	"	"	"	"	"	"	
Methylene Chloride	ND	0.20	"	"	"	"	"	"	
ortho-Xylene	**0.24**	0.20	"	"	"	"	"	"	
Tetrachloroethene	**0.12**	0.10	"	"	"	"	"	"	
Toluene	**0.89**	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.20	"	"	"	"	"	"	
Vinyl Chloride	ND	0.10	"	"	"	"	"	"	
2-Propanol	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*87.5 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*98.1 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.1 %*		*75-125*	"	"	"	"	

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Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG-9-5 (2A91501-11) Air Sampled: 01/15/09 13:13 Analyzed: 01/15/09 13:29									
1,1,1,2-Tetrachloroethane	ND	0.20	ug/l	1	29A1501	01/15/09	01/15/09	EPA 8260B	
1,1,1-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.20	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.20	"	"	"	"	"	"	
Chloroethane	ND	0.20	"	"	"	"	"	"	
Chloroform	ND	0.20	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
hlorodifluoromethane	ND	0.20	"	"	"	"	"	"	
ylbenzene	ND	0.20	"	"	"	"	"	"	
meta- and para-Xylenes	**0.64**	0.50	"	"	"	"	"	"	
Methylene Chloride	ND	0.20	"	"	"	"	"	"	
ortho-Xylene	**0.26**	0.20	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	**0.72**	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.20	"	"	"	"	"	"	
Vinyl Chloride	ND	0.10	"	"	"	"	"	"	
2-Propanol	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*88.3 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*98.6 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*75-125*		"	"	"	"	

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Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG-10-5 (2A91501-12) Air Sampled: 01/15/09 13:39 Analyzed: 01/15/09 13:55									
1,1,1,2-Tetrachloroethane	ND	0.20	ug/l	1	29A1501	01/15/09	01/15/09	EPA 8260B	
1,1,1-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.20	"	"	"	"	"	"	
Benzene	**0.28**	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.20	"	"	"	"	"	"	
Chloroethane	ND	0.20	"	"	"	"	"	"	
Chloroform	ND	0.20	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
'chlorodifluoromethane	ND	0.20	"	"	"	"	"	"	
.hylbenzene	**0.20**	0.20	"	"	"	"	"	"	
meta- and para-Xylenes	**0.75**	0.50	"	"	"	"	"	"	
Methylene Chloride	ND	0.20	"	"	"	"	"	"	
ortho-Xylene	**0.29**	0.20	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	**1.1**	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.20	"	"	"	"	"	"	
Vinyl Chloride	ND	0.10	"	"	"	"	"	"	
2-Propanol	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*84.9 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*94.7 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.0 %*	*75-125*		"	"	"	"	

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Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG-11-5 (2A91501-13) Air Sampled: 01/15/09 14:04 Analyzed: 01/15/09 14:20									
1,1,1,2-Tetrachloroethane	ND	0.20	ug/l	1	29A1501	01/15/09	01/15/09	EPA 8260B	
1,1,1-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.20	"	"	"	"	"	"	
Benzene	**0.16**	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.20	"	"	"	"	"	"	
Chloroethane	ND	0.20	"	"	"	"	"	"	
Chloroform	ND	0.20	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
hlorodifluoromethane	ND	0.20	"	"	"	"	"	"	
ıylbenzene	ND	0.20	"	"	"	"	"	"	
meta- and para-Xylenes	**0.72**	0.50	"	"	"	"	"	"	
Methylene Chloride	ND	0.20	"	"	"	"	"	"	
ortho-Xylene	**0.28**	0.20	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	**0.87**	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.20	"	"	"	"	"	"	
Vinyl Chloride	ND	0.10	"	"	"	"	"	"	
2-Propanol	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*89.0 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*97.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*75-125*		"	"	"	"	

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Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG-12-5 (2A91501-14) Air Sampled: 01/15/09 14:30 Analyzed: 01/15/09 14:46									
1,1,1,2-Tetrachloroethane	ND	0.20	ug/l	1	29A1501	01/15/09	01/15/09	EPA 8260B	
1,1,1-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.20	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.20	"	"	"	"	"	"	
Benzene	**0.12**	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.20	"	"	"	"	"	"	
Chloroethane	ND	0.20	"	"	"	"	"	"	
Chloroform	ND	0.20	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.20	"	"	"	"	"	"	
Ethylbenzene	ND	0.20	"	"	"	"	"	"	
meta- and para-Xylenes	ND	0.50	"	"	"	"	"	"	
Methylene Chloride	ND	0.20	"	"	"	"	"	"	
ortho-Xylene	ND	0.20	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.20	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.20	"	"	"	"	"	"	
Vinyl Chloride	ND	0.10	"	"	"	"	"	"	
2-Propanol	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*92.5 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*97.0 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.0 %*		*75-125*	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ardent Environmental Group, Inc. 1141 Pomona Road, Suite E Corona, California 92882	Project: 111 North Hudson Avenue, City of Industry Project Number: EST2778 Project Manager: Mr. Paul Roberts	**Reported:** 23-Jan-09 10:27

Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 29A1501 - Volatiles										
Blank (29A1501-BLK1)				Prepared & Analyzed: 01/15/09						
1,1,1,2-Tetrachloroethane	ND	0.20	ug/l							
1,1,1-Trichloroethane	ND	0.20	"							
1,1,2,2-Tetrachloroethane	0.290	0.20	"							B-05
1,1,2-Trichloroethane	0.250	0.20	"							B-05
1,1,2-Trichloro-trifluoroethane	ND	0.20	"							
1,1-Dichloroethane	ND	0.20	"							
1,1-Dichloroethene	ND	0.10	"							
1,2-Dichloroethane	ND	0.20	"							
Benzene	ND	0.10	"							
Carbon tetrachloride	ND	0.20	"							
'loroethane	ND	0.20	"							
ɔroform	ND	0.20	"							
cis-1,2-Dichloroethene	ND	0.20	"							
Dichlorodifluoromethane	ND	0.20	"							
Ethylbenzene	ND	0.20	"							
meta- and para-Xylenes	ND	0.50	"							
Methylene Chloride	ND	0.20	"							
ortho-Xylene	ND	0.20	"							
Tetrachloroethene	ND	0.10	"							
Toluene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.20	"							
Trichloroethene	ND	0.10	"							
Trichlorofluoromethane	ND	0.20	"							
Vinyl Chloride	ND	0.10	"							
2-Propanol	ND	10	"							
Surrogate: Dibromofluoromethane	*11.1*		"	*12.5*		*89.1*	*75-125*			
Surrogate: Toluene-d8	*12.2*		"	*12.5*		*97.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*12.3*		"	*12.5*		*98.3*	*75-125*			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ardent Environmental Group, Inc. 1141 Pomona Road, Suite E Corona, California 92882	Project: 111 North Hudson Avenue, City of Industry Project Number: EST2778 Project Manager: Mr. Paul Roberts	**Reported:** 23-Jan-09 10:27

Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 29A1501 - Volatiles										
LCS (29A1501-BS1)				Prepared & Analyzed: 01/15/09						
1,1,1,2-Tetrachloroethane	13.9	0.20	ug/l	12.5		111	75-136			
1,1,1-Trichloroethane	12.6	0.20	"	12.5		101	73-134			
1,1,2,2-Tetrachloroethane	10.4	0.20	"	12.5		83.4	56-149			
1,1,2-Trichloroethane	10.8	0.20	"	12.5		86.3	67-137			
1,1,2-Trichloro-trifluoroethane	13.2	0.20	"	12.5		106	83-125			
1,1-Dichloroethane	12.0	0.20	"	12.5		96.2	80-121			
1,1-Dichloroethene	12.7	0.10	"	12.5		102	73-137			
1,2-Dichloroethane	9.33	0.20	"	12.5		74.6	75-131			QM-01
Benzene	11.6	0.10	"	12.5		92.7	79-118			
Carbon tetrachloride	12.6	0.20	"	12.5		101	74-143			
Chloroethane	14.3	0.20	"	12.5		114	60-137			
loroform	11.7	0.20	"	12.5		93.3	82-119			
cis-1,2-Dichloroethene	12.1	0.20	"	12.5		96.5	87-116			
Dichlorodifluoromethane	8.44	0.20	"	12.5		67.5	47-129			
Ethylbenzene	13.4	0.20	"	12.5		107	83-114			
meta- and para-Xylenes	27.0	0.50	"	25.0		108	83-109			
Methylene Chloride	13.0	0.20	"	12.5		104	81-126			
ortho-Xylene	13.8	0.20	"	12.5		110	91-114			
Tetrachloroethene	14.0	0.10	"	12.5		112	66-144			
Toluene	13.0	0.50	"	12.5		104	70-114			
trans-1,2-Dichloroethene	12.2	0.20	"	12.5		97.5	72-133			
Trichloroethene	13.0	0.10	"	12.5		104	68-132			
Trichlorofluoromethane	12.4	0.20	"	12.5		98.8	62-144			
Vinyl Chloride	11.4	0.10	"	12.5		91.4	66-137			
Surrogate: Dibromofluoromethane	*10.4*		"	*12.5*		*83.3*	*75-125*			
Surrogate: Toluene-d8	*12.1*		"	*12.5*		*96.7*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*11.1*		"	*12.5*		*89.0*	*75-125*			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ardent Environmental Group, Inc. 1141 Pomona Road, Suite E Corona, California 92882	Project: 111 North Hudson Avenue, City of Industry Project Number: EST2778 Project Manager: Mr. Paul Roberts	**Reported:** 23-Jan-09 10:27

Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 29A1501 - Volatiles										
Duplicate (29A1501-DUP1)		**Source: 2A91501-04**		Prepared & Analyzed: 01/15/09						
1,1,1,2-Tetrachloroethane	ND	0.20	ug/l		ND				50	
1,1,1-Trichloroethane	ND	0.20	"		ND				50	
1,1,2,2-Tetrachloroethane	ND	0.20	"		ND				50	
1,1,2-Trichloroethane	ND	0.20	"		ND				50	
1,1,2-Trichloro-trifluoroethane	ND	0.20	"		ND				50	
1,1-Dichloroethane	ND	0.20	"		ND				50	
1,1-Dichloroethene	ND	0.10	"		ND				50	
1,2-Dichloroethane	ND	0.20	"		ND				50	
Benzene	0.170	0.10	"		0.170			0.00	50	
Carbon tetrachloride	ND	0.20	"		ND				50	
Chloroethane	ND	0.20	"		ND				50	
Chloroform	ND	0.20	"		ND				50	
cis-1,2-Dichloroethene	ND	0.20	"		ND				50	
Dichlorodifluoromethane	ND	0.20	"		ND				50	
Ethylbenzene	0.160	0.20	"		0.180			11.8	50	
meta- and para-Xylenes	0.610	0.50	"		0.640			4.80	50	
Methylene Chloride	ND	0.20	"		ND				50	
ortho-Xylene	0.220	0.20	"		0.230			4.44	50	
Tetrachloroethene	0.100	0.10	"		0.150			40.0	50	
Toluene	0.820	0.50	"		0.810			1.23	50	
trans-1,2-Dichloroethene	ND	0.20	"		ND				50	
Trichloroethene	ND	0.10	"		ND				50	
Trichlorofluoromethane	ND	0.20	"		ND				50	
Vinyl Chloride	ND	0.10	"		ND				50	
2-Propanol	ND	10	"		ND				200	
Surrogate: Dibromofluoromethane	*11.3*		"	*12.5*		*90.5*	*75-125*			
Surrogate: Toluene-d8	*11.9*		"	*12.5*		*95.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*12.6*		"	*12.5*		*101*	*75-125*			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Notes and Definitions

QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
B-05	Contamination in blank is carryover from previous sample analyzed in same purge vessel. This contamination is not present in purge vessels that associated samples were purged in.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CHAIN-OF-CUSTODY RECORD

Environmental Support Technologies
360 Goddard, Irvine, CA 92618 · Tel (949) 679-9500 · Fax (949) 679-9501

Client: Ardent
Address: 111 N Hudson Ave
City of Industry
Project Manager:

Sampler Name: Denny Tran
EST Project#: 2778
Site Location: City of Industry Parking lot & Warehouse
Phone: ( )
Email:

Page: 1 of 1

Turnaround Time: (Check one)

Normal ☐ Immediate ☑
24 Hours ☐ 48 Hours ☐
72 Hours ☐

Sample Receipt

Intact: Yes: ☑ No: ☐
Cold: Yes: ☐ No: ☐ N/A ☐
Custody Seals: Yes: ☐ No: ☐
N/A (Received on Site) ☐

Sample Name	Sample Matrix	Container Type	Sampling Date	Sampling Time	Purge Volume (ml)	Vacuum (inches of H_2O)	8260B VOC's SL	8260B Oxygenates	BTEX / Oxygenates	Ketones	GRO's	DTSC / LARWOCB VOC List	TO-15	TO-15 (Naphalene)	Methane	Fixed Gases	Special Instruction
SG-1-5 1PV	Air		1/15/09	8:30	85	0	X										
SG-1-5 3PV				8:31	255	0	X										
SG-1-5 7PV				8:33	595	0	X										
SG-2-5				9:49	255	0	X										
SG-3-5				10:40	255	0	X										
SG-4-5				11:05	255	0	X										
SG-5-5				11:31	255	0	X										
SG-6-5				11:57	255	0	X										
SG-7-5				12:21	255	0	X										
SG-8-5				12:48	255	0	X										
SG-9-5				13:13	255	0	X										
SG-10-5				13:39	255	0	X										
SG-11-5				14:04	255	3	X										
SG-12-5				14:30	255	0	X										

Relinquished by: (Signature) Denny Tran Date/Time: 1/15/09
Received by: Date/Time:
Relinquished by: (Signature) Date/Time:
Received by: Date/Time:

January 23, 2009

Paul Roberts
Ardent Environmental Group
1141 Pomona Rd, Suite E
Corona, CA 92882
TEL: (951)736-5334
FAX: (951)736-7560

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
Arizona: AZ0689
CSDLAC No.: 10196
Workorder No.: 103310

RE: Hudson Avenue, 100148002

Attention: Paul Roberts

Enclosed are the results for sample(s) received on January 16, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

for Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Ardent Environmental Group
Project: Hudson Avenue, 100148002
Lab Order: 103310

CASE NARRATIVE

Analyical Comments for EPA 8260B

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT: Ardent Environmental Group
Lab Order: 103310
Project: Hudson Avenue, 100148002
Lab ID: 103310-001A

Client Sample ID: AB-3-15ft
Collection Date: 1/16/2009 7:25:00 AM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
1,1,1,2-Tetrachloroethane	ND	0.96	5.0		µg/Kg	1	1/19/2009 08:26 PM
1,1,1-Trichloroethane	ND	1.4	5.0		µg/Kg	1	1/19/2009 08:26 PM
1,1,2,2-Tetrachloroethane	ND	3.1	5.0		µg/Kg	1	1/19/2009 08:26 PM
1,1,2-Trichloroethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 08:26 PM
1,1-Dichloroethane	ND	0.61	5.0		µg/Kg	1	1/19/2009 08:26 PM
1,1-Dichloroethene	ND	0.45	5.0		µg/Kg	1	1/19/2009 08:26 PM
1,1-Dichloropropene	ND	2.1	5.0		µg/Kg	1	1/19/2009 08:26 PM
1,2,3-Trichlorobenzene	ND	3.7	5.0		µg/Kg	1	1/19/2009 08:26 PM
1,2,3-Trichloropropane	ND	2.3	5.0		µg/Kg	1	1/19/2009 08:26 PM
1,2,4-Trichlorobenzene	ND	2.3	5.0		µg/Kg	1	1/19/2009 08:26 PM
1,2,4-Trimethylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 08:26 PM
1,2-Dibromo-3-chloropropane	ND	3.2	10		µg/Kg	1	1/19/2009 08:26 PM
1,2-Dibromoethane	ND	0.97	5.0		µg/Kg	1	1/19/2009 08:26 PM
1,2-Dichlorobenzene	ND	2.1	5.0		µg/Kg	1	1/19/2009 08:26 PM
1,2-Dichloroethane	ND	1.8	5.0		µg/Kg	1	1/19/2009 08:26 PM
1,2-Dichloropropane	ND	1.6	5.0		µg/Kg	1	1/19/2009 08:26 PM
1,3,5-Trimethylbenzene	ND	0.78	5.0		µg/Kg	1	1/19/2009 08:26 PM
1,3-Dichlorobenzene	ND	1.7	5.0		µg/Kg	1	1/19/2009 08:26 PM
1,3-Dichloropropane	ND	0.32	5.0		µg/Kg	1	1/19/2009 08:26 PM
1,4-Dichlorobenzene	ND	1.8	5.0		µg/Kg	1	1/19/2009 08:26 PM
2,2-Dichloropropane	ND	0.48	5.0		µg/Kg	1	1/19/2009 08:26 PM
2-Chlorotoluene	ND	0.89	5.0		µg/Kg	1	1/19/2009 08:26 PM
4-Chlorotoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 08:26 PM
4-Isopropyltoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 08:26 PM
Benzene	ND	0.64	5.0		µg/Kg	1	1/19/2009 08:26 PM
Bromobenzene	ND	1.3	5.0		µg/Kg	1	1/19/2009 08:26 PM
Bromodichloromethane	ND	1.3	5.0		µg/Kg	1	1/19/2009 08:26 PM
Bromoform	ND	2.0	5.0		µg/Kg	1	1/19/2009 08:26 PM
Bromomethane	ND	0.68	5.0		µg/Kg	1	1/19/2009 08:26 PM
Carbon tetrachloride	ND	1.4	5.0		µg/Kg	1	1/19/2009 08:26 PM
Chlorobenzene	ND	0.65	5.0		µg/Kg	1	1/19/2009 08:26 PM
Chloroethane	ND	0.87	5.0		µg/Kg	1	1/19/2009 08:26 PM
Chloroform	ND	1.5	5.0		µg/Kg	1	1/19/2009 08:26 PM
Chloromethane	ND	0.38	5.0		µg/Kg	1	1/19/2009 08:26 PM
cis-1,2-Dichloroethene	ND	1.8	5.0		µg/Kg	1	1/19/2009 08:26 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT: Ardent Environmental Group
Lab Order: 103310
Project: Hudson Avenue, 100148002
Lab ID: 103310-001A

Client Sample ID: AB-3-15ft
Collection Date: 1/16/2009 7:25:00 AM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.75	5.0		µg/Kg	1	1/19/2009 08:26 PM
Dibromochloromethane	ND	0.72	5.0		µg/Kg	1	1/19/2009 08:26 PM
Dibromomethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 08:26 PM
Dichlorodifluoromethane	ND	0.54	5.0		µg/Kg	1	1/19/2009 08:26 PM
Ethylbenzene	ND	0.32	5.0		µg/Kg	1	1/19/2009 08:26 PM
Hexachlorobutadiene	ND	2.2	5.0		µg/Kg	1	1/19/2009 08:26 PM
Isopropylbenzene	ND	0.57	5.0		µg/Kg	1	1/19/2009 08:26 PM
m,p-Xylene	ND	0.69	10		µg/Kg	1	1/19/2009 08:26 PM
Methylene chloride	ND	5.0	5.0		µg/Kg	1	1/19/2009 08:26 PM
n-Butylbenzene	ND	1.2	5.0		µg/Kg	1	1/19/2009 08:26 PM
n-Propylbenzene	ND	0.68	5.0		µg/Kg	1	1/19/2009 08:26 PM
Naphthalene	ND	2.5	5.0		µg/Kg	1	1/19/2009 08:26 PM
o-Xylene	ND	0.50	5.0		µg/Kg	1	1/19/2009 08:26 PM
sec-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 08:26 PM
Styrene	ND	0.60	5.0		µg/Kg	1	1/19/2009 08:26 PM
tert-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 08:26 PM
Tetrachloroethene	ND	1.0	5.0		µg/Kg	1	1/19/2009 08:26 PM
Toluene	ND	0.56	5.0		µg/Kg	1	1/19/2009 08:26 PM
trans-1,2-Dichloroethene	ND	0.53	5.0		µg/Kg	1	1/19/2009 08:26 PM
Trichloroethene	ND	1.5	5.0		µg/Kg	1	1/19/2009 08:26 PM
Trichlorofluoromethane	ND	0.55	5.0		µg/Kg	1	1/19/2009 08:26 PM
Vinyl chloride	ND	0.42	5.0		µg/Kg	1	1/19/2009 08:26 PM
Surr: 1,2-Dichloroethane-d4	98.7	0	70-130		%REC	1	1/19/2009 08:26 PM
Surr: 4-Bromofluorobenzene	84.1	0	70-130		%REC	1	1/19/2009 08:26 PM
Surr: Dibromofluoromethane	97.0	0	70-130		%REC	1	1/19/2009 08:26 PM
Surr: Toluene-d8	77.5	0	70-130		%REC	1	1/19/2009 08:26 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT: Ardent Environmental Group
Lab Order: 103310
Project: Hudson Avenue, 100148002
Lab ID: 103310-002A

Client Sample ID: AB-2-15ft
Collection Date: 1/16/2009 7:45:00 AM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
1,1,1,2-Tetrachloroethane	ND	0.96	5.0		µg/Kg	1	1/19/2009 08:43 PM
1,1,1-Trichloroethane	ND	1.4	5.0		µg/Kg	1	1/19/2009 08:43 PM
1,1,2,2-Tetrachloroethane	ND	3.1	5.0		µg/Kg	1	1/19/2009 08:43 PM
1,1,2-Trichloroethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 08:43 PM
1,1-Dichloroethane	ND	0.61	5.0		µg/Kg	1	1/19/2009 08:43 PM
1,1-Dichloroethene	ND	0.45	5.0		µg/Kg	1	1/19/2009 08:43 PM
1,1-Dichloropropene	ND	2.1	5.0		µg/Kg	1	1/19/2009 08:43 PM
1,2,3-Trichlorobenzene	ND	3.7	5.0		µg/Kg	1	1/19/2009 08:43 PM
1,2,3-Trichloropropane	ND	2.3	5.0		µg/Kg	1	1/19/2009 08:43 PM
1,2,4-Trichlorobenzene	ND	2.3	5.0		µg/Kg	1	1/19/2009 08:43 PM
1,2,4-Trimethylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 08:43 PM
1,2-Dibromo-3-chloropropane	ND	3.2	10		µg/Kg	1	1/19/2009 08:43 PM
1,2-Dibromoethane	ND	0.97	5.0		µg/Kg	1	1/19/2009 08:43 PM
1,2-Dichlorobenzene	ND	2.1	5.0		µg/Kg	1	1/19/2009 08:43 PM
1,2-Dichloroethane	ND	1.8	5.0		µg/Kg	1	1/19/2009 08:43 PM
1,2-Dichloropropane	ND	1.6	5.0		µg/Kg	1	1/19/2009 08:43 PM
1,3,5-Trimethylbenzene	ND	0.78	5.0		µg/Kg	1	1/19/2009 08:43 PM
1,3-Dichlorobenzene	ND	1.7	5.0		µg/Kg	1	1/19/2009 08:43 PM
1,3-Dichloropropane	ND	0.32	5.0		µg/Kg	1	1/19/2009 08:43 PM
1,4-Dichlorobenzene	ND	1.8	5.0		µg/Kg	1	1/19/2009 08:43 PM
2,2-Dichloropropane	ND	0.48	5.0		µg/Kg	1	1/19/2009 08:43 PM
2-Chlorotoluene	ND	0.89	5.0		µg/Kg	1	1/19/2009 08:43 PM
4-Chlorotoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 08:43 PM
4-Isopropyltoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 08:43 PM
Benzene	ND	0.64	5.0		µg/Kg	1	1/19/2009 08:43 PM
Bromobenzene	ND	1.3	5.0		µg/Kg	1	1/19/2009 08:43 PM
Bromodichloromethane	ND	1.3	5.0		µg/Kg	1	1/19/2009 08:43 PM
Bromoform	ND	2.0	5.0		µg/Kg	1	1/19/2009 08:43 PM
Bromomethane	ND	0.68	5.0		µg/Kg	1	1/19/2009 08:43 PM
Carbon tetrachloride	ND	1.4	5.0		µg/Kg	1	1/19/2009 08:43 PM
Chlorobenzene	ND	0.65	5.0		µg/Kg	1	1/19/2009 08:43 PM
Chloroethane	ND	0.87	5.0		µg/Kg	1	1/19/2009 08:43 PM
Chloroform	ND	1.5	5.0		µg/Kg	1	1/19/2009 08:43 PM
Chloromethane	ND	0.38	5.0		µg/Kg	1	1/19/2009 08:43 PM
cis-1,2-Dichloroethene	ND	1.8	5.0		µg/Kg	1	1/19/2009 08:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-2-15ft
Lab Order:	103310	**Collection Date:**	1/16/2009 7:45:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-002A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.75	5.0		µg/Kg	1	1/19/2009 08:43 PM
Dibromochloromethane	ND	0.72	5.0		µg/Kg	1	1/19/2009 08:43 PM
Dibromomethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 08:43 PM
Dichlorodifluoromethane	ND	0.54	5.0		µg/Kg	1	1/19/2009 08:43 PM
Ethylbenzene	ND	0.32	5.0		µg/Kg	1	1/19/2009 08:43 PM
Hexachlorobutadiene	ND	2.2	5.0		µg/Kg	1	1/19/2009 08:43 PM
Isopropylbenzene	ND	0.57	5.0		µg/Kg	1	1/19/2009 08:43 PM
m,p-Xylene	ND	0.69	10		µg/Kg	1	1/19/2009 08:43 PM
Methylene chloride	ND	5.0	5.0		µg/Kg	1	1/19/2009 08:43 PM
n-Butylbenzene	ND	1.2	5.0		µg/Kg	1	1/19/2009 08:43 PM
n-Propylbenzene	ND	0.68	5.0		µg/Kg	1	1/19/2009 08:43 PM
Naphthalene	ND	2.5	5.0		µg/Kg	1	1/19/2009 08:43 PM
o-Xylene	ND	0.50	5.0		µg/Kg	1	1/19/2009 08:43 PM
sec-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 08:43 PM
Styrene	ND	0.60	5.0		µg/Kg	1	1/19/2009 08:43 PM
tert-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 08:43 PM
Tetrachloroethene	ND	1.0	5.0		µg/Kg	1	1/19/2009 08:43 PM
Toluene	ND	0.56	5.0		µg/Kg	1	1/19/2009 08:43 PM
trans-1,2-Dichloroethene	ND	0.53	5.0		µg/Kg	1	1/19/2009 08:43 PM
Trichloroethene	ND	1.5	5.0		µg/Kg	1	1/19/2009 08:43 PM
Trichlorofluoromethane	ND	0.55	5.0		µg/Kg	1	1/19/2009 08:43 PM
Vinyl chloride	ND	0.42	5.0		µg/Kg	1	1/19/2009 08:43 PM
Surr: 1,2-Dichloroethane-d4	107	0	70-130		%REC	1	1/19/2009 08:43 PM
Surr: 4-Bromofluorobenzene	95.8	0	70-130		%REC	1	1/19/2009 08:43 PM
Surr: Dibromofluoromethane	105	0	70-130		%REC	1	1/19/2009 08:43 PM
Surr: Toluene-d8	86.3	0	70-130		%REC	1	1/19/2009 08:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-4-10ft
Lab Order:	103310	**Collection Date:**	1/16/2009 8:25:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-003A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
1,1,1,2-Tetrachloroethane	ND	0.96	5.0		µg/Kg	1	1/19/2009 08:59 PM
1,1,1-Trichloroethane	ND	1.4	5.0		µg/Kg	1	1/19/2009 08:59 PM
1,1,2,2-Tetrachloroethane	ND	3.1	5.0		µg/Kg	1	1/19/2009 08:59 PM
1,1,2-Trichloroethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 08:59 PM
1,1-Dichloroethane	ND	0.61	5.0		µg/Kg	1	1/19/2009 08:59 PM
1,1-Dichloroethene	ND	0.45	5.0		µg/Kg	1	1/19/2009 08:59 PM
1,1-Dichloropropene	ND	2.1	5.0		µg/Kg	1	1/19/2009 08:59 PM
1,2,3-Trichlorobenzene	ND	3.7	5.0		µg/Kg	1	1/19/2009 08:59 PM
1,2,3-Trichloropropane	ND	2.3	5.0		µg/Kg	1	1/19/2009 08:59 PM
1,2,4-Trichlorobenzene	ND	2.3	5.0		µg/Kg	1	1/19/2009 08:59 PM
1,2,4-Trimethylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 08:59 PM
1,2-Dibromo-3-chloropropane	ND	3.2	10		µg/Kg	1	1/19/2009 08:59 PM
1,2-Dibromoethane	ND	0.97	5.0		µg/Kg	1	1/19/2009 08:59 PM
1,2-Dichlorobenzene	ND	2.1	5.0		µg/Kg	1	1/19/2009 08:59 PM
1,2-Dichloroethane	ND	1.8	5.0		µg/Kg	1	1/19/2009 08:59 PM
1,2-Dichloropropane	ND	1.6	5.0		µg/Kg	1	1/19/2009 08:59 PM
1,3,5-Trimethylbenzene	ND	0.78	5.0		µg/Kg	1	1/19/2009 08:59 PM
1,3-Dichlorobenzene	ND	1.7	5.0		µg/Kg	1	1/19/2009 08:59 PM
1,3-Dichloropropane	ND	0.32	5.0		µg/Kg	1	1/19/2009 08:59 PM
1,4-Dichlorobenzene	ND	1.8	5.0		µg/Kg	1	1/19/2009 08:59 PM
2,2-Dichloropropane	ND	0.48	5.0		µg/Kg	1	1/19/2009 08:59 PM
2-Chlorotoluene	ND	0.89	5.0		µg/Kg	1	1/19/2009 08:59 PM
4-Chlorotoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 08:59 PM
4-Isopropyltoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 08:59 PM
Benzene	ND	0.64	5.0		µg/Kg	1	1/19/2009 08:59 PM
Bromobenzene	ND	1.3	5.0		µg/Kg	1	1/19/2009 08:59 PM
Bromodichloromethane	ND	1.3	5.0		µg/Kg	1	1/19/2009 08:59 PM
Bromoform	ND	2.0	5.0		µg/Kg	1	1/19/2009 08:59 PM
Bromomethane	ND	0.68	5.0		µg/Kg	1	1/19/2009 08:59 PM
Carbon tetrachloride	ND	1.4	5.0		µg/Kg	1	1/19/2009 08:59 PM
Chlorobenzene	ND	0.65	5.0		µg/Kg	1	1/19/2009 08:59 PM
Chloroethane	ND	0.87	5.0		µg/Kg	1	1/19/2009 08:59 PM
Chloroform	ND	1.5	5.0		µg/Kg	1	1/19/2009 08:59 PM
Chloromethane	ND	0.38	5.0		µg/Kg	1	1/19/2009 08:59 PM
cis-1,2-Dichloroethene	ND	1.8	5.0		µg/Kg	1	1/19/2009 08:59 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-4-10ft
Lab Order:	103310	**Collection Date:**	1/16/2009 8:25:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-003A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.75	5.0		µg/Kg	1	1/19/2009 08:59 PM
Dibromochloromethane	ND	0.72	5.0		µg/Kg	1	1/19/2009 08:59 PM
Dibromomethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 08:59 PM
Dichlorodifluoromethane	ND	0.54	5.0		µg/Kg	1	1/19/2009 08:59 PM
Ethylbenzene	ND	0.32	5.0		µg/Kg	1	1/19/2009 08:59 PM
Hexachlorobutadiene	ND	2.2	5.0		µg/Kg	1	1/19/2009 08:59 PM
Isopropylbenzene	ND	0.57	5.0		µg/Kg	1	1/19/2009 08:59 PM
m,p-Xylene	ND	0.69	10		µg/Kg	1	1/19/2009 08:59 PM
Methylene chloride	ND	5.0	5.0		µg/Kg	1	1/19/2009 08:59 PM
n-Butylbenzene	ND	1.2	5.0		µg/Kg	1	1/19/2009 08:59 PM
n-Propylbenzene	ND	0.68	5.0		µg/Kg	1	1/19/2009 08:59 PM
Naphthalene	ND	2.5	5.0		µg/Kg	1	1/19/2009 08:59 PM
o-Xylene	ND	0.50	5.0		µg/Kg	1	1/19/2009 08:59 PM
sec-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 08:59 PM
Styrene	ND	0.60	5.0		µg/Kg	1	1/19/2009 08:59 PM
tert-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 08:59 PM
Tetrachloroethene	ND	1.0	5.0		µg/Kg	1	1/19/2009 08:59 PM
Toluene	ND	0.56	5.0		µg/Kg	1	1/19/2009 08:59 PM
trans-1,2-Dichloroethene	ND	0.53	5.0		µg/Kg	1	1/19/2009 08:59 PM
Trichloroethene	ND	1.5	5.0		µg/Kg	1	1/19/2009 08:59 PM
Trichlorofluoromethane	ND	0.55	5.0		µg/Kg	1	1/19/2009 08:59 PM
Vinyl chloride	ND	0.42	5.0		µg/Kg	1	1/19/2009 08:59 PM
Surr: 1,2-Dichloroethane-d4	98.4	0	70-130		%REC	1	1/19/2009 08:59 PM
Surr: 4-Bromofluorobenzene	85.4	0	70-130		%REC	1	1/19/2009 08:59 PM
Surr: Dibromofluoromethane	93.2	0	70-130		%REC	1	1/19/2009 08:59 PM
Surr: Toluene-d8	75.9	0	70-130		%REC	1	1/19/2009 08:59 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-5-10ft
Lab Order:	103310	**Collection Date:**	1/16/2009 8:45:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-004A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
1,1,1,2-Tetrachloroethane	ND	0.96	5.0		µg/Kg	1	1/19/2009 09:15 PM
1,1,1-Trichloroethane	ND	1.4	5.0		µg/Kg	1	1/19/2009 09:15 PM
1,1,2,2-Tetrachloroethane	ND	3.1	5.0		µg/Kg	1	1/19/2009 09:15 PM
1,1,2-Trichloroethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 09:15 PM
1,1-Dichloroethane	ND	0.61	5.0		µg/Kg	1	1/19/2009 09:15 PM
1,1-Dichloroethene	ND	0.45	5.0		µg/Kg	1	1/19/2009 09:15 PM
1,1-Dichloropropene	ND	2.1	5.0		µg/Kg	1	1/19/2009 09:15 PM
1,2,3-Trichlorobenzene	ND	3.7	5.0		µg/Kg	1	1/19/2009 09:15 PM
1,2,3-Trichloropropane	ND	2.3	5.0		µg/Kg	1	1/19/2009 09:15 PM
1,2,4-Trichlorobenzene	ND	2.3	5.0		µg/Kg	1	1/19/2009 09:15 PM
1,2,4-Trimethylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 09:15 PM
1,2-Dibromo-3-chloropropane	ND	3.2	10		µg/Kg	1	1/19/2009 09:15 PM
1,2-Dibromoethane	ND	0.97	5.0		µg/Kg	1	1/19/2009 09:15 PM
1,2-Dichlorobenzene	ND	2.1	5.0		µg/Kg	1	1/19/2009 09:15 PM
1,2-Dichloroethane	ND	1.8	5.0		µg/Kg	1	1/19/2009 09:15 PM
1,2-Dichloropropane	ND	1.6	5.0		µg/Kg	1	1/19/2009 09:15 PM
1,3,5-Trimethylbenzene	ND	0.78	5.0		µg/Kg	1	1/19/2009 09:15 PM
1,3-Dichlorobenzene	ND	1.7	5.0		µg/Kg	1	1/19/2009 09:15 PM
1,3-Dichloropropane	ND	0.32	5.0		µg/Kg	1	1/19/2009 09:15 PM
1,4-Dichlorobenzene	ND	1.8	5.0		µg/Kg	1	1/19/2009 09:15 PM
2,2-Dichloropropane	ND	0.48	5.0		µg/Kg	1	1/19/2009 09:15 PM
2-Chlorotoluene	ND	0.89	5.0		µg/Kg	1	1/19/2009 09:15 PM
4-Chlorotoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 09:15 PM
4-Isopropyltoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 09:15 PM
Benzene	ND	0.64	5.0		µg/Kg	1	1/19/2009 09:15 PM
Bromobenzene	ND	1.3	5.0		µg/Kg	1	1/19/2009 09:15 PM
Bromodichloromethane	ND	1.3	5.0		µg/Kg	1	1/19/2009 09:15 PM
Bromoform	ND	2.0	5.0		µg/Kg	1	1/19/2009 09:15 PM
Bromomethane	ND	0.68	5.0		µg/Kg	1	1/19/2009 09:15 PM
Carbon tetrachloride	ND	1.4	5.0		µg/Kg	1	1/19/2009 09:15 PM
Chlorobenzene	ND	0.65	5.0		µg/Kg	1	1/19/2009 09:15 PM
Chloroethane	ND	0.87	5.0		µg/Kg	1	1/19/2009 09:15 PM
Chloroform	ND	1.5	5.0		µg/Kg	1	1/19/2009 09:15 PM
Chloromethane	ND	0.38	5.0		µg/Kg	1	1/19/2009 09:15 PM
cis-1,2-Dichloroethene	ND	1.8	5.0		µg/Kg	1	1/19/2009 09:15 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT: Ardent Environmental Group
Lab Order: 103310
Project: Hudson Avenue, 100148002
Lab ID: 103310-004A

Client Sample ID: AB-5-10ft
Collection Date: 1/16/2009 8:45:00 AM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.75	5.0		µg/Kg	1	1/19/2009 09:15 PM
Dibromochloromethane	ND	0.72	5.0		µg/Kg	1	1/19/2009 09:15 PM
Dibromomethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 09:15 PM
Dichlorodifluoromethane	ND	0.54	5.0		µg/Kg	1	1/19/2009 09:15 PM
Ethylbenzene	ND	0.32	5.0		µg/Kg	1	1/19/2009 09:15 PM
Hexachlorobutadiene	ND	2.2	5.0		µg/Kg	1	1/19/2009 09:15 PM
Isopropylbenzene	ND	0.57	5.0		µg/Kg	1	1/19/2009 09:15 PM
m,p-Xylene	ND	0.69	10		µg/Kg	1	1/19/2009 09:15 PM
Methylene chloride	ND	5.0	5.0		µg/Kg	1	1/19/2009 09:15 PM
n-Butylbenzene	ND	1.2	5.0		µg/Kg	1	1/19/2009 09:15 PM
n-Propylbenzene	ND	0.68	5.0		µg/Kg	1	1/19/2009 09:15 PM
Naphthalene	ND	2.5	5.0		µg/Kg	1	1/19/2009 09:15 PM
o-Xylene	ND	0.50	5.0		µg/Kg	1	1/19/2009 09:15 PM
sec-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 09:15 PM
Styrene	ND	0.60	5.0		µg/Kg	1	1/19/2009 09:15 PM
tert-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 09:15 PM
Tetrachloroethene	ND	1.0	5.0		µg/Kg	1	1/19/2009 09:15 PM
Toluene	ND	0.56	5.0		µg/Kg	1	1/19/2009 09:15 PM
trans-1,2-Dichloroethene	ND	0.53	5.0		µg/Kg	1	1/19/2009 09:15 PM
Trichloroethene	ND	1.5	5.0		µg/Kg	1	1/19/2009 09:15 PM
Trichlorofluoromethane	ND	0.55	5.0		µg/Kg	1	1/19/2009 09:15 PM
Vinyl chloride	ND	0.42	5.0		µg/Kg	1	1/19/2009 09:15 PM
Surr: 1,2-Dichloroethane-d4	96.4	0	70-130		%REC	1	1/19/2009 09:15 PM
Surr: 4-Bromofluorobenzene	86.9	0	70-130		%REC	1	1/19/2009 09:15 PM
Surr: Dibromofluoromethane	91.2	0	70-130		%REC	1	1/19/2009 09:15 PM
Surr: Toluene-d8	77.1	0	70-130		%REC	1	1/19/2009 09:15 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-6-10ft
Lab Order:	103310	**Collection Date:**	1/16/2009 9:15:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-005A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
1,1,1,2-Tetrachloroethane	ND	0.96	5.0		µg/Kg	1	1/19/2009 09:32 PM
1,1,1-Trichloroethane	ND	1.4	5.0		µg/Kg	1	1/19/2009 09:32 PM
1,1,2,2-Tetrachloroethane	ND	3.1	5.0		µg/Kg	1	1/19/2009 09:32 PM
1,1,2-Trichloroethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 09:32 PM
1,1-Dichloroethane	ND	0.61	5.0		µg/Kg	1	1/19/2009 09:32 PM
1,1-Dichloroethene	ND	0.45	5.0		µg/Kg	1	1/19/2009 09:32 PM
1,1-Dichloropropene	ND	2.1	5.0		µg/Kg	1	1/19/2009 09:32 PM
1,2,3-Trichlorobenzene	ND	3.7	5.0		µg/Kg	1	1/19/2009 09:32 PM
1,2,3-Trichloropropane	ND	2.3	5.0		µg/Kg	1	1/19/2009 09:32 PM
1,2,4-Trichlorobenzene	ND	2.3	5.0		µg/Kg	1	1/19/2009 09:32 PM
1,2,4-Trimethylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 09:32 PM
1,2-Dibromo-3-chloropropane	ND	3.2	10		µg/Kg	1	1/19/2009 09:32 PM
1,2-Dibromoethane	ND	0.97	5.0		µg/Kg	1	1/19/2009 09:32 PM
1,2-Dichlorobenzene	ND	2.1	5.0		µg/Kg	1	1/19/2009 09:32 PM
1,2-Dichloroethane	ND	1.8	5.0		µg/Kg	1	1/19/2009 09:32 PM
1,2-Dichloropropane	ND	1.6	5.0		µg/Kg	1	1/19/2009 09:32 PM
1,3,5-Trimethylbenzene	ND	0.78	5.0		µg/Kg	1	1/19/2009 09:32 PM
1,3-Dichlorobenzene	ND	1.7	5.0		µg/Kg	1	1/19/2009 09:32 PM
1,3-Dichloropropane	ND	0.32	5.0		µg/Kg	1	1/19/2009 09:32 PM
1,4-Dichlorobenzene	ND	1.8	5.0		µg/Kg	1	1/19/2009 09:32 PM
2,2-Dichloropropane	ND	0.48	5.0		µg/Kg	1	1/19/2009 09:32 PM
2-Chlorotoluene	ND	0.89	5.0		µg/Kg	1	1/19/2009 09:32 PM
4-Chlorotoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 09:32 PM
4-Isopropyltoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 09:32 PM
Benzene	ND	0.64	5.0		µg/Kg	1	1/19/2009 09:32 PM
Bromobenzene	ND	1.3	5.0		µg/Kg	1	1/19/2009 09:32 PM
Bromodichloromethane	ND	1.3	5.0		µg/Kg	1	1/19/2009 09:32 PM
Bromoform	ND	2.0	5.0		µg/Kg	1	1/19/2009 09:32 PM
Bromomethane	ND	0.68	5.0		µg/Kg	1	1/19/2009 09:32 PM
Carbon tetrachloride	ND	1.4	5.0		µg/Kg	1	1/19/2009 09:32 PM
Chlorobenzene	ND	0.65	5.0		µg/Kg	1	1/19/2009 09:32 PM
Chloroethane	ND	0.87	5.0		µg/Kg	1	1/19/2009 09:32 PM
Chloroform	ND	1.5	5.0		µg/Kg	1	1/19/2009 09:32 PM
Chloromethane	ND	0.38	5.0		µg/Kg	1	1/19/2009 09:32 PM
cis-1,2-Dichloroethene	ND	1.8	5.0		µg/Kg	1	1/19/2009 09:32 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-6-10ft
Lab Order:	103310	**Collection Date:**	1/16/2009 9:15:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-005A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch:	**K09VS016**			PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.75	5.0		µg/Kg	1	1/19/2009 09:32 PM
Dibromochloromethane	ND	0.72	5.0		µg/Kg	1	1/19/2009 09:32 PM
Dibromomethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 09:32 PM
Dichlorodifluoromethane	ND	0.54	5.0		µg/Kg	1	1/19/2009 09:32 PM
Ethylbenzene	ND	0.32	5.0		µg/Kg	1	1/19/2009 09:32 PM
Hexachlorobutadiene	ND	2.2	5.0		µg/Kg	1	1/19/2009 09:32 PM
Isopropylbenzene	ND	0.57	5.0		µg/Kg	1	1/19/2009 09:32 PM
m,p-Xylene	ND	0.69	10		µg/Kg	1	1/19/2009 09:32 PM
Methylene chloride	ND	5.0	5.0		µg/Kg	1	1/19/2009 09:32 PM
n-Butylbenzene	ND	1.2	5.0		µg/Kg	1	1/19/2009 09:32 PM
n-Propylbenzene	ND	0.68	5.0		µg/Kg	1	1/19/2009 09:32 PM
Naphthalene	ND	2.5	5.0		µg/Kg	1	1/19/2009 09:32 PM
o-Xylene	ND	0.50	5.0		µg/Kg	1	1/19/2009 09:32 PM
sec-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 09:32 PM
Styrene	ND	0.60	5.0		µg/Kg	1	1/19/2009 09:32 PM
tert-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 09:32 PM
Tetrachloroethene	ND	1.0	5.0		µg/Kg	1	1/19/2009 09:32 PM
Toluene	ND	0.56	5.0		µg/Kg	1	1/19/2009 09:32 PM
trans-1,2-Dichloroethene	ND	0.53	5.0		µg/Kg	1	1/19/2009 09:32 PM
Trichloroethene	ND	1.5	5.0		µg/Kg	1	1/19/2009 09:32 PM
Trichlorofluoromethane	ND	0.55	5.0		µg/Kg	1	1/19/2009 09:32 PM
Vinyl chloride	ND	0.42	5.0		µg/Kg	1	1/19/2009 09:32 PM
Surr: 1,2-Dichloroethane-d4	98.1	0	70-130		%REC	1	1/19/2009 09:32 PM
Surr: 4-Bromofluorobenzene	86.8	0	70-130		%REC	1	1/19/2009 09:32 PM
Surr: Dibromofluoromethane	94.3	0	70-130		%REC	1	1/19/2009 09:32 PM
Surr: Toluene-d8	78.6	0	70-130		%REC	1	1/19/2009 09:32 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-7-10ft
Lab Order:	103310	**Collection Date:**	1/16/2009 9:45:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-006A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
1,1,1,2-Tetrachloroethane	ND	0.96	5.0		µg/Kg	1	1/19/2009 09:48 PM
1,1,1-Trichloroethane	ND	1.4	5.0		µg/Kg	1	1/19/2009 09:48 PM
1,1,2,2-Tetrachloroethane	ND	3.1	5.0		µg/Kg	1	1/19/2009 09:48 PM
1,1,2-Trichloroethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 09:48 PM
1,1-Dichloroethane	ND	0.61	5.0		µg/Kg	1	1/19/2009 09:48 PM
1,1-Dichloroethene	ND	0.45	5.0		µg/Kg	1	1/19/2009 09:48 PM
1,1-Dichloropropene	ND	2.1	5.0		µg/Kg	1	1/19/2009 09:48 PM
1,2,3-Trichlorobenzene	ND	3.7	5.0		µg/Kg	1	1/19/2009 09:48 PM
1,2,3-Trichloropropane	ND	2.3	5.0		µg/Kg	1	1/19/2009 09:48 PM
1,2,4-Trichlorobenzene	ND	2.3	5.0		µg/Kg	1	1/19/2009 09:48 PM
1,2,4-Trimethylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 09:48 PM
1,2-Dibromo-3-chloropropane	ND	3.2	10		µg/Kg	1	1/19/2009 09:48 PM
1,2-Dibromoethane	ND	0.97	5.0		µg/Kg	1	1/19/2009 09:48 PM
1,2-Dichlorobenzene	ND	2.1	5.0		µg/Kg	1	1/19/2009 09:48 PM
1,2-Dichloroethane	ND	1.8	5.0		µg/Kg	1	1/19/2009 09:48 PM
1,2-Dichloropropane	ND	1.6	5.0		µg/Kg	1	1/19/2009 09:48 PM
1,3,5-Trimethylbenzene	ND	0.78	5.0		µg/Kg	1	1/19/2009 09:48 PM
1,3-Dichlorobenzene	ND	1.7	5.0		µg/Kg	1	1/19/2009 09:48 PM
1,3-Dichloropropane	ND	0.32	5.0		µg/Kg	1	1/19/2009 09:48 PM
1,4-Dichlorobenzene	ND	1.8	5.0		µg/Kg	1	1/19/2009 09:48 PM
2,2-Dichloropropane	ND	0.48	5.0		µg/Kg	1	1/19/2009 09:48 PM
2-Chlorotoluene	ND	0.89	5.0		µg/Kg	1	1/19/2009 09:48 PM
4-Chlorotoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 09:48 PM
4-Isopropyltoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 09:48 PM
Benzene	ND	0.64	5.0		µg/Kg	1	1/19/2009 09:48 PM
Bromobenzene	ND	1.3	5.0		µg/Kg	1	1/19/2009 09:48 PM
Bromodichloromethane	ND	1.3	5.0		µg/Kg	1	1/19/2009 09:48 PM
Bromoform	ND	2.0	5.0		µg/Kg	1	1/19/2009 09:48 PM
Bromomethane	ND	0.68	5.0		µg/Kg	1	1/19/2009 09:48 PM
Carbon tetrachloride	ND	1.4	5.0		µg/Kg	1	1/19/2009 09:48 PM
Chlorobenzene	ND	0.65	5.0		µg/Kg	1	1/19/2009 09:48 PM
Chloroethane	ND	0.87	5.0		µg/Kg	1	1/19/2009 09:48 PM
Chloroform	ND	1.5	5.0		µg/Kg	1	1/19/2009 09:48 PM
Chloromethane	ND	0.38	5.0		µg/Kg	1	1/19/2009 09:48 PM
cis-1,2-Dichloroethene	ND	1.8	5.0		µg/Kg	1	1/19/2009 09:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-7-10ft
Lab Order:	103310	**Collection Date:**	1/16/2009 9:45:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-006A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch:	**K09VS016**			PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.75	5.0		µg/Kg	1	1/19/2009 09:48 PM
Dibromochloromethane	ND	0.72	5.0		µg/Kg	1	1/19/2009 09:48 PM
Dibromomethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 09:48 PM
Dichlorodifluoromethane	ND	0.54	5.0		µg/Kg	1	1/19/2009 09:48 PM
Ethylbenzene	ND	0.32	5.0		µg/Kg	1	1/19/2009 09:48 PM
Hexachlorobutadiene	ND	2.2	5.0		µg/Kg	1	1/19/2009 09:48 PM
Isopropylbenzene	ND	0.57	5.0		µg/Kg	1	1/19/2009 09:48 PM
m,p-Xylene	ND	0.69	10		µg/Kg	1	1/19/2009 09:48 PM
Methylene chloride	ND	5.0	5.0		µg/Kg	1	1/19/2009 09:48 PM
n-Butylbenzene	ND	1.2	5.0		µg/Kg	1	1/19/2009 09:48 PM
n-Propylbenzene	ND	0.68	5.0		µg/Kg	1	1/19/2009 09:48 PM
Naphthalene	ND	2.5	5.0		µg/Kg	1	1/19/2009 09:48 PM
o-Xylene	ND	0.50	5.0		µg/Kg	1	1/19/2009 09:48 PM
sec-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 09:48 PM
Styrene	ND	0.60	5.0		µg/Kg	1	1/19/2009 09:48 PM
tert-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 09:48 PM
Tetrachloroethene	ND	1.0	5.0		µg/Kg	1	1/19/2009 09:48 PM
Toluene	ND	0.56	5.0		µg/Kg	1	1/19/2009 09:48 PM
trans-1,2-Dichloroethene	ND	0.53	5.0		µg/Kg	1	1/19/2009 09:48 PM
Trichloroethene	ND	1.5	5.0		µg/Kg	1	1/19/2009 09:48 PM
Trichlorofluoromethane	ND	0.55	5.0		µg/Kg	1	1/19/2009 09:48 PM
Vinyl chloride	ND	0.42	5.0		µg/Kg	1	1/19/2009 09:48 PM
Surr: 1,2-Dichloroethane-d4	96.4	0	70-130		%REC	1	1/19/2009 09:48 PM
Surr: 4-Bromofluorobenzene	88.3	0	70-130		%REC	1	1/19/2009 09:48 PM
Surr: Dibromofluoromethane	92.6	0	70-130		%REC	1	1/19/2009 09:48 PM
Surr: Toluene-d8	74.1	0	70-130		%REC	1	1/19/2009 09:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT: Ardent Environmental Group
Lab Order: 103310
Project: Hudson Avenue, 100148002
Lab ID: 103310-007A

Client Sample ID: AB-8-10ft
Collection Date: 1/16/2009 10:15:00 AM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
1,1,1,2-Tetrachloroethane	ND	0.96	5.0		µg/Kg	1	1/19/2009 10:05 PM
1,1,1-Trichloroethane	ND	1.4	5.0		µg/Kg	1	1/19/2009 10:05 PM
1,1,2,2-Tetrachloroethane	ND	3.1	5.0		µg/Kg	1	1/19/2009 10:05 PM
1,1,2-Trichloroethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 10:05 PM
1,1-Dichloroethane	ND	0.61	5.0		µg/Kg	1	1/19/2009 10:05 PM
1,1-Dichloroethene	ND	0.45	5.0		µg/Kg	1	1/19/2009 10:05 PM
1,1-Dichloropropene	ND	2.1	5.0		µg/Kg	1	1/19/2009 10:05 PM
1,2,3-Trichlorobenzene	ND	3.7	5.0		µg/Kg	1	1/19/2009 10:05 PM
1,2,3-Trichloropropane	ND	2.3	5.0		µg/Kg	1	1/19/2009 10:05 PM
1,2,4-Trichlorobenzene	ND	2.3	5.0		µg/Kg	1	1/19/2009 10:05 PM
1,2,4-Trimethylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 10:05 PM
1,2-Dibromo-3-chloropropane	ND	3.2	10		µg/Kg	1	1/19/2009 10:05 PM
1,2-Dibromoethane	ND	0.97	5.0		µg/Kg	1	1/19/2009 10:05 PM
1,2-Dichlorobenzene	ND	2.1	5.0		µg/Kg	1	1/19/2009 10:05 PM
1,2-Dichloroethane	ND	1.8	5.0		µg/Kg	1	1/19/2009 10:05 PM
1,2-Dichloropropane	ND	1.6	5.0		µg/Kg	1	1/19/2009 10:05 PM
1,3,5-Trimethylbenzene	ND	0.78	5.0		µg/Kg	1	1/19/2009 10:05 PM
1,3-Dichlorobenzene	ND	1.7	5.0		µg/Kg	1	1/19/2009 10:05 PM
1,3-Dichloropropane	ND	0.32	5.0		µg/Kg	1	1/19/2009 10:05 PM
1,4-Dichlorobenzene	ND	1.8	5.0		µg/Kg	1	1/19/2009 10:05 PM
2,2-Dichloropropane	ND	0.48	5.0		µg/Kg	1	1/19/2009 10:05 PM
2-Chlorotoluene	ND	0.89	5.0		µg/Kg	1	1/19/2009 10:05 PM
4-Chlorotoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 10:05 PM
4-Isopropyltoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 10:05 PM
Benzene	ND	0.64	5.0		µg/Kg	1	1/19/2009 10:05 PM
Bromobenzene	ND	1.3	5.0		µg/Kg	1	1/19/2009 10:05 PM
Bromodichloromethane	ND	1.3	5.0		µg/Kg	1	1/19/2009 10:05 PM
Bromoform	ND	2.0	5.0		µg/Kg	1	1/19/2009 10:05 PM
Bromomethane	ND	0.68	5.0		µg/Kg	1	1/19/2009 10:05 PM
Carbon tetrachloride	ND	1.4	5.0		µg/Kg	1	1/19/2009 10:05 PM
Chlorobenzene	ND	0.65	5.0		µg/Kg	1	1/19/2009 10:05 PM
Chloroethane	ND	0.87	5.0		µg/Kg	1	1/19/2009 10:05 PM
Chloroform	ND	1.5	5.0		µg/Kg	1	1/19/2009 10:05 PM
Chloromethane	ND	0.38	5.0		µg/Kg	1	1/19/2009 10:05 PM
cis-1,2-Dichloroethene	ND	1.8	5.0		µg/Kg	1	1/19/2009 10:05 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-8-10ft
Lab Order:	103310	**Collection Date:**	1/16/2009 10:15:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-007A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.75	5.0		µg/Kg	1	1/19/2009 10:05 PM
Dibromochloromethane	ND	0.72	5.0		µg/Kg	1	1/19/2009 10:05 PM
Dibromomethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 10:05 PM
Dichlorodifluoromethane	ND	0.54	5.0		µg/Kg	1	1/19/2009 10:05 PM
Ethylbenzene	ND	0.32	5.0		µg/Kg	1	1/19/2009 10:05 PM
Hexachlorobutadiene	ND	2.2	5.0		µg/Kg	1	1/19/2009 10:05 PM
Isopropylbenzene	ND	0.57	5.0		µg/Kg	1	1/19/2009 10:05 PM
m,p-Xylene	ND	0.69	10		µg/Kg	1	1/19/2009 10:05 PM
Methylene chloride	ND	5.0	5.0		µg/Kg	1	1/19/2009 10:05 PM
n-Butylbenzene	ND	1.2	5.0		µg/Kg	1	1/19/2009 10:05 PM
n-Propylbenzene	ND	0.68	5.0		µg/Kg	1	1/19/2009 10:05 PM
Naphthalene	ND	2.5	5.0		µg/Kg	1	1/19/2009 10:05 PM
o-Xylene	ND	0.50	5.0		µg/Kg	1	1/19/2009 10:05 PM
sec-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 10:05 PM
Styrene	ND	0.60	5.0		µg/Kg	1	1/19/2009 10:05 PM
tert-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 10:05 PM
Tetrachloroethene	ND	1.0	5.0		µg/Kg	1	1/19/2009 10:05 PM
Toluene	ND	0.56	5.0		µg/Kg	1	1/19/2009 10:05 PM
trans-1,2-Dichloroethene	ND	0.53	5.0		µg/Kg	1	1/19/2009 10:05 PM
Trichloroethene	ND	1.5	5.0		µg/Kg	1	1/19/2009 10:05 PM
Trichlorofluoromethane	ND	0.55	5.0		µg/Kg	1	1/19/2009 10:05 PM
Vinyl chloride	ND	0.42	5.0		µg/Kg	1	1/19/2009 10:05 PM
Surr: 1,2-Dichloroethane-d4	109	0	70-130		%REC	1	1/19/2009 10:05 PM
Surr: 4-Bromofluorobenzene	92.1	0	70-130		%REC	1	1/19/2009 10:05 PM
Surr: Dibromofluoromethane	106	0	70-130		%REC	1	1/19/2009 10:05 PM
Surr: Toluene-d8	81.4	0	70-130		%REC	1	1/19/2009 10:05 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-9-10ft
Lab Order:	103310	**Collection Date:**	1/16/2009 11:00:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-008A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
1,1,1,2-Tetrachloroethane	ND	0.96	5.0		µg/Kg	1	1/19/2009 10:21 PM
1,1,1-Trichloroethane	ND	1.4	5.0		µg/Kg	1	1/19/2009 10:21 PM
1,1,2,2-Tetrachloroethane	ND	3.1	5.0		µg/Kg	1	1/19/2009 10:21 PM
1,1,2-Trichloroethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 10:21 PM
1,1-Dichloroethane	ND	0.61	5.0		µg/Kg	1	1/19/2009 10:21 PM
1,1-Dichloroethene	ND	0.45	5.0		µg/Kg	1	1/19/2009 10:21 PM
1,1-Dichloropropene	ND	2.1	5.0		µg/Kg	1	1/19/2009 10:21 PM
1,2,3-Trichlorobenzene	ND	3.7	5.0		µg/Kg	1	1/19/2009 10:21 PM
1,2,3-Trichloropropane	ND	2.3	5.0		µg/Kg	1	1/19/2009 10:21 PM
1,2,4-Trichlorobenzene	ND	2.3	5.0		µg/Kg	1	1/19/2009 10:21 PM
1,2,4-Trimethylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 10:21 PM
1,2-Dibromo-3-chloropropane	ND	3.2	10		µg/Kg	1	1/19/2009 10:21 PM
1,2-Dibromoethane	ND	0.97	5.0		µg/Kg	1	1/19/2009 10:21 PM
1,2-Dichlorobenzene	ND	2.1	5.0		µg/Kg	1	1/19/2009 10:21 PM
1,2-Dichloroethane	ND	1.8	5.0		µg/Kg	1	1/19/2009 10:21 PM
1,2-Dichloropropane	ND	1.6	5.0		µg/Kg	1	1/19/2009 10:21 PM
1,3,5-Trimethylbenzene	ND	0.78	5.0		µg/Kg	1	1/19/2009 10:21 PM
1,3-Dichlorobenzene	ND	1.7	5.0		µg/Kg	1	1/19/2009 10:21 PM
1,3-Dichloropropane	ND	0.32	5.0		µg/Kg	1	1/19/2009 10:21 PM
1,4-Dichlorobenzene	ND	1.8	5.0		µg/Kg	1	1/19/2009 10:21 PM
2,2-Dichloropropane	ND	0.48	5.0		µg/Kg	1	1/19/2009 10:21 PM
2-Chlorotoluene	ND	0.89	5.0		µg/Kg	1	1/19/2009 10:21 PM
4-Chlorotoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 10:21 PM
4-Isopropyltoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 10:21 PM
Benzene	ND	0.64	5.0		µg/Kg	1	1/19/2009 10:21 PM
Bromobenzene	ND	1.3	5.0		µg/Kg	1	1/19/2009 10:21 PM
Bromodichloromethane	ND	1.3	5.0		µg/Kg	1	1/19/2009 10:21 PM
Bromoform	ND	2.0	5.0		µg/Kg	1	1/19/2009 10:21 PM
Bromomethane	ND	0.68	5.0		µg/Kg	1	1/19/2009 10:21 PM
Carbon tetrachloride	ND	1.4	5.0		µg/Kg	1	1/19/2009 10:21 PM
Chlorobenzene	ND	0.65	5.0		µg/Kg	1	1/19/2009 10:21 PM
Chloroethane	ND	0.87	5.0		µg/Kg	1	1/19/2009 10:21 PM
Chloroform	ND	1.5	5.0		µg/Kg	1	1/19/2009 10:21 PM
Chloromethane	ND	0.38	5.0		µg/Kg	1	1/19/2009 10:21 PM
cis-1,2-Dichloroethene	ND	1.8	5.0		µg/Kg	1	1/19/2009 10:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-9-10ft
Lab Order:	103310	**Collection Date:**	1/16/2009 11:00:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-008A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.75	5.0		µg/Kg	1	1/19/2009 10:21 PM
Dibromochloromethane	ND	0.72	5.0		µg/Kg	1	1/19/2009 10:21 PM
Dibromomethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 10:21 PM
Dichlorodifluoromethane	ND	0.54	5.0		µg/Kg	1	1/19/2009 10:21 PM
Ethylbenzene	ND	0.32	5.0		µg/Kg	1	1/19/2009 10:21 PM
Hexachlorobutadiene	ND	2.2	5.0		µg/Kg	1	1/19/2009 10:21 PM
Isopropylbenzene	ND	0.57	5.0		µg/Kg	1	1/19/2009 10:21 PM
m,p-Xylene	ND	0.69	10		µg/Kg	1	1/19/2009 10:21 PM
Methylene chloride	ND	5.0	5.0		µg/Kg	1	1/19/2009 10:21 PM
n-Butylbenzene	ND	1.2	5.0		µg/Kg	1	1/19/2009 10:21 PM
n-Propylbenzene	ND	0.68	5.0		µg/Kg	1	1/19/2009 10:21 PM
Naphthalene	ND	2.5	5.0		µg/Kg	1	1/19/2009 10:21 PM
o-Xylene	ND	0.50	5.0		µg/Kg	1	1/19/2009 10:21 PM
sec-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 10:21 PM
Styrene	ND	0.60	5.0		µg/Kg	1	1/19/2009 10:21 PM
tert-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 10:21 PM
Tetrachloroethene	ND	1.0	5.0		µg/Kg	1	1/19/2009 10:21 PM
Toluene	ND	0.56	5.0		µg/Kg	1	1/19/2009 10:21 PM
trans-1,2-Dichloroethene	ND	0.53	5.0		µg/Kg	1	1/19/2009 10:21 PM
Trichloroethene	ND	1.5	5.0		µg/Kg	1	1/19/2009 10:21 PM
Trichlorofluoromethane	ND	0.55	5.0		µg/Kg	1	1/19/2009 10:21 PM
Vinyl chloride	ND	0.42	5.0		µg/Kg	1	1/19/2009 10:21 PM
Surr: 1,2-Dichloroethane-d4	97.4	0	70-130		%REC	1	1/19/2009 10:21 PM
Surr: 4-Bromofluorobenzene	85.2	0	70-130		%REC	1	1/19/2009 10:21 PM
Surr: Dibromofluoromethane	93.5	0	70-130		%REC	1	1/19/2009 10:21 PM
Surr: Toluene-d8	74.6	0	70-130		%REC	1	1/19/2009 10:21 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT: Ardent Environmental Group
Lab Order: 103310
Project: Hudson Avenue, 100148002
Lab ID: 103310-009A

Client Sample ID: AB-9-25ft
Collection Date: 1/16/2009 11:15:00 AM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
1,1,1,2-Tetrachloroethane	ND	0.96	5.0		µg/Kg	1	1/19/2009 10:37 PM
1,1,1-Trichloroethane	ND	1.4	5.0		µg/Kg	1	1/19/2009 10:37 PM
1,1,2,2-Tetrachloroethane	ND	3.1	5.0		µg/Kg	1	1/19/2009 10:37 PM
1,1,2-Trichloroethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 10:37 PM
1,1-Dichloroethane	ND	0.61	5.0		µg/Kg	1	1/19/2009 10:37 PM
1,1-Dichloroethene	ND	0.45	5.0		µg/Kg	1	1/19/2009 10:37 PM
1,1-Dichloropropene	ND	2.1	5.0		µg/Kg	1	1/19/2009 10:37 PM
1,2,3-Trichlorobenzene	ND	3.7	5.0		µg/Kg	1	1/19/2009 10:37 PM
1,2,3-Trichloropropane	ND	2.3	5.0		µg/Kg	1	1/19/2009 10:37 PM
1,2,4-Trichlorobenzene	ND	2.3	5.0		µg/Kg	1	1/19/2009 10:37 PM
1,2,4-Trimethylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 10:37 PM
1,2-Dibromo-3-chloropropane	ND	3.2	10		µg/Kg	1	1/19/2009 10:37 PM
1,2-Dibromoethane	ND	0.97	5.0		µg/Kg	1	1/19/2009 10:37 PM
1,2-Dichlorobenzene	ND	2.1	5.0		µg/Kg	1	1/19/2009 10:37 PM
1,2-Dichloroethane	ND	1.8	5.0		µg/Kg	1	1/19/2009 10:37 PM
1,2-Dichloropropane	ND	1.6	5.0		µg/Kg	1	1/19/2009 10:37 PM
1,3,5-Trimethylbenzene	ND	0.78	5.0		µg/Kg	1	1/19/2009 10:37 PM
1,3-Dichlorobenzene	ND	1.7	5.0		µg/Kg	1	1/19/2009 10:37 PM
1,3-Dichloropropane	ND	0.32	5.0		µg/Kg	1	1/19/2009 10:37 PM
1,4-Dichlorobenzene	ND	1.8	5.0		µg/Kg	1	1/19/2009 10:37 PM
2,2-Dichloropropane	ND	0.48	5.0		µg/Kg	1	1/19/2009 10:37 PM
2-Chlorotoluene	ND	0.89	5.0		µg/Kg	1	1/19/2009 10:37 PM
4-Chlorotoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 10:37 PM
4-Isopropyltoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 10:37 PM
Benzene	ND	0.64	5.0		µg/Kg	1	1/19/2009 10:37 PM
Bromobenzene	ND	1.3	5.0		µg/Kg	1	1/19/2009 10:37 PM
Bromodichloromethane	ND	1.3	5.0		µg/Kg	1	1/19/2009 10:37 PM
Bromoform	ND	2.0	5.0		µg/Kg	1	1/19/2009 10:37 PM
Bromomethane	ND	0.68	5.0		µg/Kg	1	1/19/2009 10:37 PM
Carbon tetrachloride	ND	1.4	5.0		µg/Kg	1	1/19/2009 10:37 PM
Chlorobenzene	ND	0.65	5.0		µg/Kg	1	1/19/2009 10:37 PM
Chloroethane	ND	0.87	5.0		µg/Kg	1	1/19/2009 10:37 PM
Chloroform	ND	1.5	5.0		µg/Kg	1	1/19/2009 10:37 PM
Chloromethane	ND	0.38	5.0		µg/Kg	1	1/19/2009 10:37 PM
cis-1,2-Dichloroethene	ND	1.8	5.0		µg/Kg	1	1/19/2009 10:37 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-9-25ft
Lab Order:	103310	**Collection Date:**	1/16/2009 11:15:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-009A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch:	**K09VS016**			PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.75	5.0		µg/Kg	1	1/19/2009 10:37 PM
Dibromochloromethane	ND	0.72	5.0		µg/Kg	1	1/19/2009 10:37 PM
Dibromomethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 10:37 PM
Dichlorodifluoromethane	ND	0.54	5.0		µg/Kg	1	1/19/2009 10:37 PM
Ethylbenzene	ND	0.32	5.0		µg/Kg	1	1/19/2009 10:37 PM
Hexachlorobutadiene	ND	2.2	5.0		µg/Kg	1	1/19/2009 10:37 PM
Isopropylbenzene	ND	0.57	5.0		µg/Kg	1	1/19/2009 10:37 PM
m,p-Xylene	ND	0.69	10		µg/Kg	1	1/19/2009 10:37 PM
Methylene chloride	ND	5.0	5.0		µg/Kg	1	1/19/2009 10:37 PM
n-Butylbenzene	ND	1.2	5.0		µg/Kg	1	1/19/2009 10:37 PM
n-Propylbenzene	ND	0.68	5.0		µg/Kg	1	1/19/2009 10:37 PM
Naphthalene	ND	2.5	5.0		µg/Kg	1	1/19/2009 10:37 PM
o-Xylene	ND	0.50	5.0		µg/Kg	1	1/19/2009 10:37 PM
sec-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 10:37 PM
Styrene	ND	0.60	5.0		µg/Kg	1	1/19/2009 10:37 PM
tert-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 10:37 PM
Tetrachloroethene	ND	1.0	5.0		µg/Kg	1	1/19/2009 10:37 PM
Toluene	ND	0.56	5.0		µg/Kg	1	1/19/2009 10:37 PM
trans-1,2-Dichloroethene	ND	0.53	5.0		µg/Kg	1	1/19/2009 10:37 PM
Trichloroethene	ND	1.5	5.0		µg/Kg	1	1/19/2009 10:37 PM
Trichlorofluoromethane	ND	0.55	5.0		µg/Kg	1	1/19/2009 10:37 PM
Vinyl chloride	ND	0.42	5.0		µg/Kg	1	1/19/2009 10:37 PM
Surr: 1,2-Dichloroethane-d4	98.1	0	70-130		%REC	1	1/19/2009 10:37 PM
Surr: 4-Bromofluorobenzene	87.2	0	70-130		%REC	1	1/19/2009 10:37 PM
Surr: Dibromofluoromethane	95.3	0	70-130		%REC	1	1/19/2009 10:37 PM
Surr: Toluene-d8	76.0	0	70-130		%REC	1	1/19/2009 10:37 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-10-5ft
Lab Order:	103310	**Collection Date:**	1/16/2009
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-010A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
1,1,1,2-Tetrachloroethane	ND	0.96	5.0		µg/Kg	1	1/19/2009 10:53 PM
1,1,1-Trichloroethane	ND	1.4	5.0		µg/Kg	1	1/19/2009 10:53 PM
1,1,2,2-Tetrachloroethane	ND	3.1	5.0		µg/Kg	1	1/19/2009 10:53 PM
1,1,2-Trichloroethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 10:53 PM
1,1-Dichloroethane	ND	0.61	5.0		µg/Kg	1	1/19/2009 10:53 PM
1,1-Dichloroethene	ND	0.45	5.0		µg/Kg	1	1/19/2009 10:53 PM
1,1-Dichloropropene	ND	2.1	5.0		µg/Kg	1	1/19/2009 10:53 PM
1,2,3-Trichlorobenzene	ND	3.7	5.0		µg/Kg	1	1/19/2009 10:53 PM
1,2,3-Trichloropropane	ND	2.3	5.0		µg/Kg	1	1/19/2009 10:53 PM
1,2,4-Trichlorobenzene	ND	2.3	5.0		µg/Kg	1	1/19/2009 10:53 PM
1,2,4-Trimethylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 10:53 PM
1,2-Dibromo-3-chloropropane	ND	3.2	10		µg/Kg	1	1/19/2009 10:53 PM
1,2-Dibromoethane	ND	0.97	5.0		µg/Kg	1	1/19/2009 10:53 PM
1,2-Dichlorobenzene	ND	2.1	5.0		µg/Kg	1	1/19/2009 10:53 PM
1,2-Dichloroethane	ND	1.8	5.0		µg/Kg	1	1/19/2009 10:53 PM
1,2-Dichloropropane	ND	1.6	5.0		µg/Kg	1	1/19/2009 10:53 PM
1,3,5-Trimethylbenzene	ND	0.78	5.0		µg/Kg	1	1/19/2009 10:53 PM
1,3-Dichlorobenzene	ND	1.7	5.0		µg/Kg	1	1/19/2009 10:53 PM
1,3-Dichloropropane	ND	0.32	5.0		µg/Kg	1	1/19/2009 10:53 PM
1,4-Dichlorobenzene	ND	1.8	5.0		µg/Kg	1	1/19/2009 10:53 PM
2,2-Dichloropropane	ND	0.48	5.0		µg/Kg	1	1/19/2009 10:53 PM
2-Chlorotoluene	ND	0.89	5.0		µg/Kg	1	1/19/2009 10:53 PM
4-Chlorotoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 10:53 PM
4-Isopropyltoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 10:53 PM
Benzene	ND	0.64	5.0		µg/Kg	1	1/19/2009 10:53 PM
Bromobenzene	ND	1.3	5.0		µg/Kg	1	1/19/2009 10:53 PM
Bromodichloromethane	ND	1.3	5.0		µg/Kg	1	1/19/2009 10:53 PM
Bromoform	ND	2.0	5.0		µg/Kg	1	1/19/2009 10:53 PM
Bromomethane	ND	0.68	5.0		µg/Kg	1	1/19/2009 10:53 PM
Carbon tetrachloride	ND	1.4	5.0		µg/Kg	1	1/19/2009 10:53 PM
Chlorobenzene	ND	0.65	5.0		µg/Kg	1	1/19/2009 10:53 PM
Chloroethane	ND	0.87	5.0		µg/Kg	1	1/19/2009 10:53 PM
Chloroform	ND	1.5	5.0		µg/Kg	1	1/19/2009 10:53 PM
Chloromethane	ND	0.38	5.0		µg/Kg	1	1/19/2009 10:53 PM
cis-1,2-Dichloroethene	ND	1.8	5.0		µg/Kg	1	1/19/2009 10:53 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-10-5ft
Lab Order:	103310	**Collection Date:**	1/16/2009
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-010A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch:	**K09VS016**			PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.75	5.0		µg/Kg	1	1/19/2009 10:53 PM
Dibromochloromethane	ND	0.72	5.0		µg/Kg	1	1/19/2009 10:53 PM
Dibromomethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 10:53 PM
Dichlorodifluoromethane	ND	0.54	5.0		µg/Kg	1	1/19/2009 10:53 PM
Ethylbenzene	ND	0.32	5.0		µg/Kg	1	1/19/2009 10:53 PM
Hexachlorobutadiene	ND	2.2	5.0		µg/Kg	1	1/19/2009 10:53 PM
Isopropylbenzene	ND	0.57	5.0		µg/Kg	1	1/19/2009 10:53 PM
m,p-Xylene	ND	0.69	10		µg/Kg	1	1/19/2009 10:53 PM
Methylene chloride	ND	5.0	5.0		µg/Kg	1	1/19/2009 10:53 PM
n-Butylbenzene	ND	1.2	5.0		µg/Kg	1	1/19/2009 10:53 PM
n-Propylbenzene	ND	0.68	5.0		µg/Kg	1	1/19/2009 10:53 PM
Naphthalene	ND	2.5	5.0		µg/Kg	1	1/19/2009 10:53 PM
o-Xylene	ND	0.50	5.0		µg/Kg	1	1/19/2009 10:53 PM
sec-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 10:53 PM
Styrene	ND	0.60	5.0		µg/Kg	1	1/19/2009 10:53 PM
tert-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 10:53 PM
Tetrachloroethene	ND	1.0	5.0		µg/Kg	1	1/19/2009 10:53 PM
Toluene	ND	0.56	5.0		µg/Kg	1	1/19/2009 10:53 PM
trans-1,2-Dichloroethene	ND	0.53	5.0		µg/Kg	1	1/19/2009 10:53 PM
Trichloroethene	ND	1.5	5.0		µg/Kg	1	1/19/2009 10:53 PM
Trichlorofluoromethane	ND	0.55	5.0		µg/Kg	1	1/19/2009 10:53 PM
Vinyl chloride	ND	0.42	5.0		µg/Kg	1	1/19/2009 10:53 PM
Surr: 1,2-Dichloroethane-d4	99.5	0	70-130		%REC	1	1/19/2009 10:53 PM
Surr: 4-Bromofluorobenzene	85.0	0	70-130		%REC	1	1/19/2009 10:53 PM
Surr: Dibromofluoromethane	96.8	0	70-130		%REC	1	1/19/2009 10:53 PM
Surr: Toluene-d8	76.3	0	70-130		%REC	1	1/19/2009 10:53 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT: Ardent Environmental Group
Lab Order: 103310
Project: Hudson Avenue, 100148002
Lab ID: 103310-011A

Client Sample ID: AB-11-5ft
Collection Date: 1/16/2009 11:30:00 AM
Matrix: SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS4_090119B** QC Batch: **K09VS016** PrepDate: Analyst: **BD**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.96	5.0		µg/Kg	1	1/19/2009 11:10 PM
1,1,1-Trichloroethane	ND	1.4	5.0		µg/Kg	1	1/19/2009 11:10 PM
1,1,2,2-Tetrachloroethane	ND	3.1	5.0		µg/Kg	1	1/19/2009 11:10 PM
1,1,2-Trichloroethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 11:10 PM
1,1-Dichloroethane	ND	0.61	5.0		µg/Kg	1	1/19/2009 11:10 PM
1,1-Dichloroethene	ND	0.45	5.0		µg/Kg	1	1/19/2009 11:10 PM
1,1-Dichloropropene	ND	2.1	5.0		µg/Kg	1	1/19/2009 11:10 PM
1,2,3-Trichlorobenzene	ND	3.7	5.0		µg/Kg	1	1/19/2009 11:10 PM
1,2,3-Trichloropropane	ND	2.3	5.0		µg/Kg	1	1/19/2009 11:10 PM
1,2,4-Trichlorobenzene	ND	2.3	5.0		µg/Kg	1	1/19/2009 11:10 PM
1,2,4-Trimethylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 11:10 PM
1,2-Dibromo-3-chloropropane	ND	3.2	10		µg/Kg	1	1/19/2009 11:10 PM
1,2-Dibromoethane	ND	0.97	5.0		µg/Kg	1	1/19/2009 11:10 PM
1,2-Dichlorobenzene	ND	2.1	5.0		µg/Kg	1	1/19/2009 11:10 PM
1,2-Dichloroethane	ND	1.8	5.0		µg/Kg	1	1/19/2009 11:10 PM
1,2-Dichloropropane	ND	1.6	5.0		µg/Kg	1	1/19/2009 11:10 PM
1,3,5-Trimethylbenzene	ND	0.78	5.0		µg/Kg	1	1/19/2009 11:10 PM
1,3-Dichlorobenzene	ND	1.7	5.0		µg/Kg	1	1/19/2009 11:10 PM
1,3-Dichloropropane	ND	0.32	5.0		µg/Kg	1	1/19/2009 11:10 PM
1,4-Dichlorobenzene	ND	1.8	5.0		µg/Kg	1	1/19/2009 11:10 PM
2,2-Dichloropropane	ND	0.48	5.0		µg/Kg	1	1/19/2009 11:10 PM
2-Chlorotoluene	ND	0.89	5.0		µg/Kg	1	1/19/2009 11:10 PM
4-Chlorotoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 11:10 PM
4-Isopropyltoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 11:10 PM
Benzene	ND	0.64	5.0		µg/Kg	1	1/19/2009 11:10 PM
Bromobenzene	ND	1.3	5.0		µg/Kg	1	1/19/2009 11:10 PM
Bromodichloromethane	ND	1.3	5.0		µg/Kg	1	1/19/2009 11:10 PM
Bromoform	ND	2.0	5.0		µg/Kg	1	1/19/2009 11:10 PM
Bromomethane	ND	0.68	5.0		µg/Kg	1	1/19/2009 11:10 PM
Carbon tetrachloride	ND	1.4	5.0		µg/Kg	1	1/19/2009 11:10 PM
Chlorobenzene	ND	0.65	5.0		µg/Kg	1	1/19/2009 11:10 PM
Chloroethane	ND	0.87	5.0		µg/Kg	1	1/19/2009 11:10 PM
Chloroform	ND	1.5	5.0		µg/Kg	1	1/19/2009 11:10 PM
Chloromethane	ND	0.38	5.0		µg/Kg	1	1/19/2009 11:10 PM
cis-1,2-Dichloroethene	ND	1.8	5.0		µg/Kg	1	1/19/2009 11:10 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-11-5ft
Lab Order:	103310	**Collection Date:**	1/16/2009 11:30:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-011A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.75	5.0		µg/Kg	1	1/19/2009 11:10 PM
Dibromochloromethane	ND	0.72	5.0		µg/Kg	1	1/19/2009 11:10 PM
Dibromomethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 11:10 PM
Dichlorodifluoromethane	ND	0.54	5.0		µg/Kg	1	1/19/2009 11:10 PM
Ethylbenzene	ND	0.32	5.0		µg/Kg	1	1/19/2009 11:10 PM
Hexachlorobutadiene	ND	2.2	5.0		µg/Kg	1	1/19/2009 11:10 PM
Isopropylbenzene	ND	0.57	5.0		µg/Kg	1	1/19/2009 11:10 PM
m,p-Xylene	ND	0.69	10		µg/Kg	1	1/19/2009 11:10 PM
Methylene chloride	ND	5.0	5.0		µg/Kg	1	1/19/2009 11:10 PM
n-Butylbenzene	ND	1.2	5.0		µg/Kg	1	1/19/2009 11:10 PM
n-Propylbenzene	ND	0.68	5.0		µg/Kg	1	1/19/2009 11:10 PM
Naphthalene	ND	2.5	5.0		µg/Kg	1	1/19/2009 11:10 PM
o-Xylene	ND	0.50	5.0		µg/Kg	1	1/19/2009 11:10 PM
sec-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 11:10 PM
Styrene	ND	0.60	5.0		µg/Kg	1	1/19/2009 11:10 PM
tert-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 11:10 PM
Tetrachloroethene	ND	1.0	5.0		µg/Kg	1	1/19/2009 11:10 PM
Toluene	ND	0.56	5.0		µg/Kg	1	1/19/2009 11:10 PM
trans-1,2-Dichloroethene	ND	0.53	5.0		µg/Kg	1	1/19/2009 11:10 PM
Trichloroethene	ND	1.5	5.0		µg/Kg	1	1/19/2009 11:10 PM
Trichlorofluoromethane	ND	0.55	5.0		µg/Kg	1	1/19/2009 11:10 PM
Vinyl chloride	ND	0.42	5.0		µg/Kg	1	1/19/2009 11:10 PM
Surr: 1,2-Dichloroethane-d4	99.1	0	70-130		%REC	1	1/19/2009 11:10 PM
Surr: 4-Bromofluorobenzene	85.2	0	70-130		%REC	1	1/19/2009 11:10 PM
Surr: Dibromofluoromethane	94.2	0	70-130		%REC	1	1/19/2009 11:10 PM
Surr: Toluene-d8	77.1	0	70-130		%REC	1	1/19/2009 11:10 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT: Ardent Environmental Group
Lab Order: 103310
Project: Hudson Avenue, 100148002
Lab ID: 103310-012A

Client Sample ID: AB-14-5ft
Collection Date: 1/16/2009 11:50:00 AM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
1,1,1,2-Tetrachloroethane	ND	0.96	5.0		µg/Kg	1	1/19/2009 11:26 PM
1,1,1-Trichloroethane	ND	1.4	5.0		µg/Kg	1	1/19/2009 11:26 PM
1,1,2,2-Tetrachloroethane	ND	3.1	5.0		µg/Kg	1	1/19/2009 11:26 PM
1,1,2-Trichloroethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 11:26 PM
1,1-Dichloroethane	ND	0.61	5.0		µg/Kg	1	1/19/2009 11:26 PM
1,1-Dichloroethene	ND	0.45	5.0		µg/Kg	1	1/19/2009 11:26 PM
1,1-Dichloropropene	ND	2.1	5.0		µg/Kg	1	1/19/2009 11:26 PM
1,2,3-Trichlorobenzene	ND	3.7	5.0		µg/Kg	1	1/19/2009 11:26 PM
1,2,3-Trichloropropane	ND	2.3	5.0		µg/Kg	1	1/19/2009 11:26 PM
1,2,4-Trichlorobenzene	ND	2.3	5.0		µg/Kg	1	1/19/2009 11:26 PM
1,2,4-Trimethylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 11:26 PM
1,2-Dibromo-3-chloropropane	ND	3.2	10		µg/Kg	1	1/19/2009 11:26 PM
1,2-Dibromoethane	ND	0.97	5.0		µg/Kg	1	1/19/2009 11:26 PM
1,2-Dichlorobenzene	ND	2.1	5.0		µg/Kg	1	1/19/2009 11:26 PM
1,2-Dichloroethane	ND	1.8	5.0		µg/Kg	1	1/19/2009 11:26 PM
1,2-Dichloropropane	ND	1.6	5.0		µg/Kg	1	1/19/2009 11:26 PM
1,3,5-Trimethylbenzene	ND	0.78	5.0		µg/Kg	1	1/19/2009 11:26 PM
1,3-Dichlorobenzene	ND	1.7	5.0		µg/Kg	1	1/19/2009 11:26 PM
1,3-Dichloropropane	ND	0.32	5.0		µg/Kg	1	1/19/2009 11:26 PM
1,4-Dichlorobenzene	ND	1.8	5.0		µg/Kg	1	1/19/2009 11:26 PM
2,2-Dichloropropane	ND	0.48	5.0		µg/Kg	1	1/19/2009 11:26 PM
2-Chlorotoluene	ND	0.89	5.0		µg/Kg	1	1/19/2009 11:26 PM
4-Chlorotoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 11:26 PM
4-Isopropyltoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 11:26 PM
Benzene	ND	0.64	5.0		µg/Kg	1	1/19/2009 11:26 PM
Bromobenzene	ND	1.3	5.0		µg/Kg	1	1/19/2009 11:26 PM
Bromodichloromethane	ND	1.3	5.0		µg/Kg	1	1/19/2009 11:26 PM
Bromoform	ND	2.0	5.0		µg/Kg	1	1/19/2009 11:26 PM
Bromomethane	ND	0.68	5.0		µg/Kg	1	1/19/2009 11:26 PM
Carbon tetrachloride	ND	1.4	5.0		µg/Kg	1	1/19/2009 11:26 PM
Chlorobenzene	ND	0.65	5.0		µg/Kg	1	1/19/2009 11:26 PM
Chloroethane	ND	0.87	5.0		µg/Kg	1	1/19/2009 11:26 PM
Chloroform	ND	1.5	5.0		µg/Kg	1	1/19/2009 11:26 PM
Chloromethane	ND	0.38	5.0		µg/Kg	1	1/19/2009 11:26 PM
cis-1,2-Dichloroethene	ND	1.8	5.0		µg/Kg	1	1/19/2009 11:26 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-14-5ft
Lab Order:	103310	**Collection Date:**	1/16/2009 11:50:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-012A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.75	5.0		µg/Kg	1	1/19/2009 11:26 PM
Dibromochloromethane	ND	0.72	5.0		µg/Kg	1	1/19/2009 11:26 PM
Dibromomethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 11:26 PM
Dichlorodifluoromethane	ND	0.54	5.0		µg/Kg	1	1/19/2009 11:26 PM
Ethylbenzene	ND	0.32	5.0		µg/Kg	1	1/19/2009 11:26 PM
Hexachlorobutadiene	ND	2.2	5.0		µg/Kg	1	1/19/2009 11:26 PM
Isopropylbenzene	ND	0.57	5.0		µg/Kg	1	1/19/2009 11:26 PM
m,p-Xylene	ND	0.69	10		µg/Kg	1	1/19/2009 11:26 PM
Methylene chloride	ND	5.0	5.0		µg/Kg	1	1/19/2009 11:26 PM
n-Butylbenzene	ND	1.2	5.0		µg/Kg	1	1/19/2009 11:26 PM
n-Propylbenzene	ND	0.68	5.0		µg/Kg	1	1/19/2009 11:26 PM
Naphthalene	ND	2.5	5.0		µg/Kg	1	1/19/2009 11:26 PM
o-Xylene	ND	0.50	5.0		µg/Kg	1	1/19/2009 11:26 PM
sec-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 11:26 PM
Styrene	ND	0.60	5.0		µg/Kg	1	1/19/2009 11:26 PM
tert-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 11:26 PM
Tetrachloroethene	ND	1.0	5.0		µg/Kg	1	1/19/2009 11:26 PM
Toluene	ND	0.56	5.0		µg/Kg	1	1/19/2009 11:26 PM
trans-1,2-Dichloroethene	ND	0.53	5.0		µg/Kg	1	1/19/2009 11:26 PM
Trichloroethene	ND	1.5	5.0		µg/Kg	1	1/19/2009 11:26 PM
Trichlorofluoromethane	ND	0.55	5.0		µg/Kg	1	1/19/2009 11:26 PM
Vinyl chloride	ND	0.42	5.0		µg/Kg	1	1/19/2009 11:26 PM
Surr: 1,2-Dichloroethane-d4	97.8	0	70-130		%REC	1	1/19/2009 11:26 PM
Surr: 4-Bromofluorobenzene	85.9	0	70-130		%REC	1	1/19/2009 11:26 PM
Surr: Dibromofluoromethane	97.1	0	70-130		%REC	1	1/19/2009 11:26 PM
Surr: Toluene-d8	76.6	0	70-130		%REC	1	1/19/2009 11:26 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-12-5ft
Lab Order:	103310	**Collection Date:**	1/16/2009 12:25:00 PM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-013A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
1,1,1,2-Tetrachloroethane	ND	0.96	5.0		µg/Kg	1	1/19/2009 11:42 PM
1,1,1-Trichloroethane	ND	1.4	5.0		µg/Kg	1	1/19/2009 11:42 PM
1,1,2,2-Tetrachloroethane	ND	3.1	5.0		µg/Kg	1	1/19/2009 11:42 PM
1,1,2-Trichloroethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 11:42 PM
1,1-Dichloroethane	ND	0.61	5.0		µg/Kg	1	1/19/2009 11:42 PM
1,1-Dichloroethene	ND	0.45	5.0		µg/Kg	1	1/19/2009 11:42 PM
1,1-Dichloropropene	ND	2.1	5.0		µg/Kg	1	1/19/2009 11:42 PM
1,2,3-Trichlorobenzene	ND	3.7	5.0		µg/Kg	1	1/19/2009 11:42 PM
1,2,3-Trichloropropane	ND	2.3	5.0		µg/Kg	1	1/19/2009 11:42 PM
1,2,4-Trichlorobenzene	ND	2.3	5.0		µg/Kg	1	1/19/2009 11:42 PM
1,2,4-Trimethylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 11:42 PM
1,2-Dibromo-3-chloropropane	ND	3.2	10		µg/Kg	1	1/19/2009 11:42 PM
1,2-Dibromoethane	ND	0.97	5.0		µg/Kg	1	1/19/2009 11:42 PM
1,2-Dichlorobenzene	ND	2.1	5.0		µg/Kg	1	1/19/2009 11:42 PM
1,2-Dichloroethane	ND	1.8	5.0		µg/Kg	1	1/19/2009 11:42 PM
1,2-Dichloropropane	ND	1.6	5.0		µg/Kg	1	1/19/2009 11:42 PM
1,3,5-Trimethylbenzene	ND	0.78	5.0		µg/Kg	1	1/19/2009 11:42 PM
1,3-Dichlorobenzene	ND	1.7	5.0		µg/Kg	1	1/19/2009 11:42 PM
1,3-Dichloropropane	ND	0.32	5.0		µg/Kg	1	1/19/2009 11:42 PM
1,4-Dichlorobenzene	ND	1.8	5.0		µg/Kg	1	1/19/2009 11:42 PM
2,2-Dichloropropane	ND	0.48	5.0		µg/Kg	1	1/19/2009 11:42 PM
2-Chlorotoluene	ND	0.89	5.0		µg/Kg	1	1/19/2009 11:42 PM
4-Chlorotoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 11:42 PM
4-Isopropyltoluene	ND	1.1	5.0		µg/Kg	1	1/19/2009 11:42 PM
Benzene	ND	0.64	5.0		µg/Kg	1	1/19/2009 11:42 PM
Bromobenzene	ND	1.3	5.0		µg/Kg	1	1/19/2009 11:42 PM
Bromodichloromethane	ND	1.3	5.0		µg/Kg	1	1/19/2009 11:42 PM
Bromoform	ND	2.0	5.0		µg/Kg	1	1/19/2009 11:42 PM
Bromomethane	ND	0.68	5.0		µg/Kg	1	1/19/2009 11:42 PM
Carbon tetrachloride	ND	1.4	5.0		µg/Kg	1	1/19/2009 11:42 PM
Chlorobenzene	ND	0.65	5.0		µg/Kg	1	1/19/2009 11:42 PM
Chloroethane	ND	0.87	5.0		µg/Kg	1	1/19/2009 11:42 PM
Chloroform	ND	1.5	5.0		µg/Kg	1	1/19/2009 11:42 PM
Chloromethane	ND	0.38	5.0		µg/Kg	1	1/19/2009 11:42 PM
cis-1,2-Dichloroethene	ND	1.8	5.0		µg/Kg	1	1/19/2009 11:42 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-12-5ft
Lab Order:	103310	**Collection Date:**	1/16/2009 12:25:00 PM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-013A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090119B**	QC Batch: **K09VS016**				PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.75	5.0		µg/Kg	1	1/19/2009 11:42 PM
Dibromochloromethane	ND	0.72	5.0		µg/Kg	1	1/19/2009 11:42 PM
Dibromomethane	ND	1.2	5.0		µg/Kg	1	1/19/2009 11:42 PM
Dichlorodifluoromethane	ND	0.54	5.0		µg/Kg	1	1/19/2009 11:42 PM
Ethylbenzene	ND	0.32	5.0		µg/Kg	1	1/19/2009 11:42 PM
Hexachlorobutadiene	ND	2.2	5.0		µg/Kg	1	1/19/2009 11:42 PM
Isopropylbenzene	ND	0.57	5.0		µg/Kg	1	1/19/2009 11:42 PM
m,p-Xylene	ND	0.69	10		µg/Kg	1	1/19/2009 11:42 PM
Methylene chloride	ND	5.0	5.0		µg/Kg	1	1/19/2009 11:42 PM
n-Butylbenzene	ND	1.2	5.0		µg/Kg	1	1/19/2009 11:42 PM
n-Propylbenzene	ND	0.68	5.0		µg/Kg	1	1/19/2009 11:42 PM
Naphthalene	ND	2.5	5.0		µg/Kg	1	1/19/2009 11:42 PM
o-Xylene	ND	0.50	5.0		µg/Kg	1	1/19/2009 11:42 PM
sec-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 11:42 PM
Styrene	ND	0.60	5.0		µg/Kg	1	1/19/2009 11:42 PM
tert-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/19/2009 11:42 PM
Tetrachloroethene	ND	1.0	5.0		µg/Kg	1	1/19/2009 11:42 PM
Toluene	ND	0.56	5.0		µg/Kg	1	1/19/2009 11:42 PM
trans-1,2-Dichloroethene	ND	0.53	5.0		µg/Kg	1	1/19/2009 11:42 PM
Trichloroethene	ND	1.5	5.0		µg/Kg	1	1/19/2009 11:42 PM
Trichlorofluoromethane	ND	0.55	5.0		µg/Kg	1	1/19/2009 11:42 PM
Vinyl chloride	ND	0.42	5.0		µg/Kg	1	1/19/2009 11:42 PM
Surr: 1,2-Dichloroethane-d4	103	0	70-130		%REC	1	1/19/2009 11:42 PM
Surr: 4-Bromofluorobenzene	87.5	0	70-130		%REC	1	1/19/2009 11:42 PM
Surr: Dibromofluoromethane	98.4	0	70-130		%REC	1	1/19/2009 11:42 PM
Surr: Toluene-d8	75.2	0	70-130		%REC	1	1/19/2009 11:42 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT: Ardent Environmental Group
Lab Order: 103310
Project: Hudson Avenue, 100148002
Lab ID: 103310-014A

Client Sample ID: AB-13-5ft
Collection Date: 1/16/2009 12:45:00 PM
Matrix: SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS4_090120A** QC Batch: **K09VS017** PrepDate: Analyst: **BD**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.96	5.0		µg/Kg	1	1/20/2009 01:46 PM
1,1,1-Trichloroethane	ND	1.4	5.0		µg/Kg	1	1/20/2009 01:46 PM
1,1,2,2-Tetrachloroethane	ND	3.1	5.0		µg/Kg	1	1/20/2009 01:46 PM
1,1,2-Trichloroethane	ND	1.2	5.0		µg/Kg	1	1/20/2009 01:46 PM
1,1-Dichloroethane	ND	0.61	5.0		µg/Kg	1	1/20/2009 01:46 PM
1,1-Dichloroethene	ND	0.45	5.0		µg/Kg	1	1/20/2009 01:46 PM
1,1-Dichloropropene	ND	2.1	5.0		µg/Kg	1	1/20/2009 01:46 PM
1,2,3-Trichlorobenzene	ND	3.7	5.0		µg/Kg	1	1/20/2009 01:46 PM
1,2,3-Trichloropropane	ND	2.3	5.0		µg/Kg	1	1/20/2009 01:46 PM
1,2,4-Trichlorobenzene	ND	2.3	5.0		µg/Kg	1	1/20/2009 01:46 PM
1,2,4-Trimethylbenzene	ND	1.0	5.0		µg/Kg	1	1/20/2009 01:46 PM
1,2-Dibromo-3-chloropropane	ND	3.2	10		µg/Kg	1	1/20/2009 01:46 PM
1,2-Dibromoethane	ND	0.97	5.0		µg/Kg	1	1/20/2009 01:46 PM
1,2-Dichlorobenzene	ND	2.1	5.0		µg/Kg	1	1/20/2009 01:46 PM
1,2-Dichloroethane	ND	1.8	5.0		µg/Kg	1	1/20/2009 01:46 PM
1,2-Dichloropropane	ND	1.6	5.0		µg/Kg	1	1/20/2009 01:46 PM
1,3,5-Trimethylbenzene	ND	0.78	5.0		µg/Kg	1	1/20/2009 01:46 PM
1,3-Dichlorobenzene	ND	1.7	5.0		µg/Kg	1	1/20/2009 01:46 PM
1,3-Dichloropropane	ND	0.32	5.0		µg/Kg	1	1/20/2009 01:46 PM
1,4-Dichlorobenzene	ND	1.8	5.0		µg/Kg	1	1/20/2009 01:46 PM
2,2-Dichloropropane	ND	0.48	5.0		µg/Kg	1	1/20/2009 01:46 PM
2-Chlorotoluene	ND	0.89	5.0		µg/Kg	1	1/20/2009 01:46 PM
4-Chlorotoluene	ND	1.1	5.0		µg/Kg	1	1/20/2009 01:46 PM
4-Isopropyltoluene	ND	1.1	5.0		µg/Kg	1	1/20/2009 01:46 PM
Benzene	ND	0.64	5.0		µg/Kg	1	1/20/2009 01:46 PM
Bromobenzene	ND	1.3	5.0		µg/Kg	1	1/20/2009 01:46 PM
Bromodichloromethane	ND	1.3	5.0		µg/Kg	1	1/20/2009 01:46 PM
Bromoform	ND	2.0	5.0		µg/Kg	1	1/20/2009 01:46 PM
Bromomethane	ND	0.68	5.0		µg/Kg	1	1/20/2009 01:46 PM
Carbon tetrachloride	ND	1.4	5.0		µg/Kg	1	1/20/2009 01:46 PM
Chlorobenzene	ND	0.65	5.0		µg/Kg	1	1/20/2009 01:46 PM
Chloroethane	ND	0.87	5.0		µg/Kg	1	1/20/2009 01:46 PM
Chloroform	ND	1.5	5.0		µg/Kg	1	1/20/2009 01:46 PM
Chloromethane	ND	0.38	5.0		µg/Kg	1	1/20/2009 01:46 PM
cis-1,2-Dichloroethene	ND	1.8	5.0		µg/Kg	1	1/20/2009 01:46 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-13-5ft
Lab Order:	103310	**Collection Date:**	1/16/2009 12:45:00 PM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-014A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090120A**	QC Batch:	**K09VS017**			PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.75	5.0		µg/Kg	1	1/20/2009 01:46 PM
Dibromochloromethane	ND	0.72	5.0		µg/Kg	1	1/20/2009 01:46 PM
Dibromomethane	ND	1.2	5.0		µg/Kg	1	1/20/2009 01:46 PM
Dichlorodifluoromethane	ND	0.54	5.0		µg/Kg	1	1/20/2009 01:46 PM
Ethylbenzene	ND	0.32	5.0		µg/Kg	1	1/20/2009 01:46 PM
Hexachlorobutadiene	ND	2.2	5.0		µg/Kg	1	1/20/2009 01:46 PM
Isopropylbenzene	ND	0.57	5.0		µg/Kg	1	1/20/2009 01:46 PM
m,p-Xylene	ND	0.69	10		µg/Kg	1	1/20/2009 01:46 PM
Methylene chloride	ND	5.0	5.0		µg/Kg	1	1/20/2009 01:46 PM
n-Butylbenzene	ND	1.2	5.0		µg/Kg	1	1/20/2009 01:46 PM
n-Propylbenzene	ND	0.68	5.0		µg/Kg	1	1/20/2009 01:46 PM
Naphthalene	ND	2.5	5.0		µg/Kg	1	1/20/2009 01:46 PM
o-Xylene	ND	0.50	5.0		µg/Kg	1	1/20/2009 01:46 PM
sec-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/20/2009 01:46 PM
Styrene	ND	0.60	5.0		µg/Kg	1	1/20/2009 01:46 PM
tert-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/20/2009 01:46 PM
Tetrachloroethene	ND	1.0	5.0		µg/Kg	1	1/20/2009 01:46 PM
Toluene	0.72	0.56	5.0	J	µg/Kg	1	1/20/2009 01:46 PM
trans-1,2-Dichloroethene	ND	0.53	5.0		µg/Kg	1	1/20/2009 01:46 PM
Trichloroethene	ND	1.5	5.0		µg/Kg	1	1/20/2009 01:46 PM
Trichlorofluoromethane	ND	0.55	5.0		µg/Kg	1	1/20/2009 01:46 PM
Vinyl chloride	ND	0.42	5.0		µg/Kg	1	1/20/2009 01:46 PM
Surr: 1,2-Dichloroethane-d4	91.5	0	70-130		%REC	1	1/20/2009 01:46 PM
Surr: 4-Bromofluorobenzene	86.0	0	70-130		%REC	1	1/20/2009 01:46 PM
Surr: Dibromofluoromethane	90.8	0	70-130		%REC	1	1/20/2009 01:46 PM
Surr: Toluene-d8	79.4	0	70-130		%REC	1	1/20/2009 01:46 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-15-5ft
Lab Order:	103310	**Collection Date:**	1/16/2009 1:00:00 PM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-015A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS4_090120A** QC Batch: **K09VS017** PrepDate: Analyst: **BD**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.96	5.0		µg/Kg	1	1/20/2009 02:02 PM
1,1,1-Trichloroethane	ND	1.4	5.0		µg/Kg	1	1/20/2009 02:02 PM
1,1,2,2-Tetrachloroethane	ND	3.1	5.0		µg/Kg	1	1/20/2009 02:02 PM
1,1,2-Trichloroethane	ND	1.2	5.0		µg/Kg	1	1/20/2009 02:02 PM
1,1-Dichloroethane	ND	0.61	5.0		µg/Kg	1	1/20/2009 02:02 PM
1,1-Dichloroethene	ND	0.45	5.0		µg/Kg	1	1/20/2009 02:02 PM
1,1-Dichloropropene	ND	2.1	5.0		µg/Kg	1	1/20/2009 02:02 PM
1,2,3-Trichlorobenzene	ND	3.7	5.0		µg/Kg	1	1/20/2009 02:02 PM
1,2,3-Trichloropropane	ND	2.3	5.0		µg/Kg	1	1/20/2009 02:02 PM
1,2,4-Trichlorobenzene	ND	2.3	5.0		µg/Kg	1	1/20/2009 02:02 PM
1,2,4-Trimethylbenzene	ND	1.0	5.0		µg/Kg	1	1/20/2009 02:02 PM
1,2-Dibromo-3-chloropropane	ND	3.2	10		µg/Kg	1	1/20/2009 02:02 PM
1,2-Dibromoethane	ND	0.97	5.0		µg/Kg	1	1/20/2009 02:02 PM
1,2-Dichlorobenzene	ND	2.1	5.0		µg/Kg	1	1/20/2009 02:02 PM
1,2-Dichloroethane	ND	1.8	5.0		µg/Kg	1	1/20/2009 02:02 PM
1,2-Dichloropropane	ND	1.6	5.0		µg/Kg	1	1/20/2009 02:02 PM
1,3,5-Trimethylbenzene	ND	0.78	5.0		µg/Kg	1	1/20/2009 02:02 PM
1,3-Dichlorobenzene	ND	1.7	5.0		µg/Kg	1	1/20/2009 02:02 PM
1,3-Dichloropropane	ND	0.32	5.0		µg/Kg	1	1/20/2009 02:02 PM
1,4-Dichlorobenzene	ND	1.8	5.0		µg/Kg	1	1/20/2009 02:02 PM
2,2-Dichloropropane	ND	0.48	5.0		µg/Kg	1	1/20/2009 02:02 PM
2-Chlorotoluene	ND	0.89	5.0		µg/Kg	1	1/20/2009 02:02 PM
4-Chlorotoluene	ND	1.1	5.0		µg/Kg	1	1/20/2009 02:02 PM
4-Isopropyltoluene	ND	1.1	5.0		µg/Kg	1	1/20/2009 02:02 PM
Benzene	ND	0.64	5.0		µg/Kg	1	1/20/2009 02:02 PM
Bromobenzene	ND	1.3	5.0		µg/Kg	1	1/20/2009 02:02 PM
Bromodichloromethane	ND	1.3	5.0		µg/Kg	1	1/20/2009 02:02 PM
Bromoform	ND	2.0	5.0		µg/Kg	1	1/20/2009 02:02 PM
Bromomethane	ND	0.68	5.0		µg/Kg	1	1/20/2009 02:02 PM
Carbon tetrachloride	ND	1.4	5.0		µg/Kg	1	1/20/2009 02:02 PM
Chlorobenzene	ND	0.65	5.0		µg/Kg	1	1/20/2009 02:02 PM
Chloroethane	ND	0.87	5.0		µg/Kg	1	1/20/2009 02:02 PM
Chloroform	ND	1.5	5.0		µg/Kg	1	1/20/2009 02:02 PM
Chloromethane	ND	0.38	5.0		µg/Kg	1	1/20/2009 02:02 PM
cis-1,2-Dichloroethene	ND	1.8	5.0		µg/Kg	1	1/20/2009 02:02 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT: Ardent Environmental Group
Lab Order: 103310
Project: Hudson Avenue, 100148002
Lab ID: 103310-015A

Client Sample ID: AB-15-5ft
Collection Date: 1/16/2009 1:00:00 PM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS4_090120A**	QC Batch: **K09VS017**				PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.75	5.0		µg/Kg	1	1/20/2009 02:02 PM
Dibromochloromethane	ND	0.72	5.0		µg/Kg	1	1/20/2009 02:02 PM
Dibromomethane	ND	1.2	5.0		µg/Kg	1	1/20/2009 02:02 PM
Dichlorodifluoromethane	ND	0.54	5.0		µg/Kg	1	1/20/2009 02:02 PM
Ethylbenzene	ND	0.32	5.0		µg/Kg	1	1/20/2009 02:02 PM
Hexachlorobutadiene	ND	2.2	5.0		µg/Kg	1	1/20/2009 02:02 PM
Isopropylbenzene	ND	0.57	5.0		µg/Kg	1	1/20/2009 02:02 PM
m,p-Xylene	ND	0.69	10		µg/Kg	1	1/20/2009 02:02 PM
Methylene chloride	ND	5.0	5.0		µg/Kg	1	1/20/2009 02:02 PM
n-Butylbenzene	ND	1.2	5.0		µg/Kg	1	1/20/2009 02:02 PM
n-Propylbenzene	ND	0.68	5.0		µg/Kg	1	1/20/2009 02:02 PM
Naphthalene	ND	2.5	5.0		µg/Kg	1	1/20/2009 02:02 PM
o-Xylene	ND	0.50	5.0		µg/Kg	1	1/20/2009 02:02 PM
sec-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/20/2009 02:02 PM
Styrene	ND	0.60	5.0		µg/Kg	1	1/20/2009 02:02 PM
tert-Butylbenzene	ND	1.0	5.0		µg/Kg	1	1/20/2009 02:02 PM
Tetrachloroethene	ND	1.0	5.0		µg/Kg	1	1/20/2009 02:02 PM
Toluene	1.0	0.56	5.0	J	µg/Kg	1	1/20/2009 02:02 PM
trans-1,2-Dichloroethene	ND	0.53	5.0		µg/Kg	1	1/20/2009 02:02 PM
Trichloroethene	ND	1.5	5.0		µg/Kg	1	1/20/2009 02:02 PM
Trichlorofluoromethane	ND	0.55	5.0		µg/Kg	1	1/20/2009 02:02 PM
Vinyl chloride	ND	0.42	5.0		µg/Kg	1	1/20/2009 02:02 PM
Surr: 1,2-Dichloroethane-d4	97.1	0	70-130		%REC	1	1/20/2009 02:02 PM
Surr: 4-Bromofluorobenzene	90.0	0	70-130		%REC	1	1/20/2009 02:02 PM
Surr: Dibromofluoromethane	94.3	0	70-130		%REC	1	1/20/2009 02:02 PM
Surr: Toluene-d8	83.0	0	70-130		%REC	1	1/20/2009 02:02 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-4-10ft
Lab Order:	103310	**Collection Date:**	1/16/2009 8:25:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-003A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GLYCOL ORGANICS BY GC/FID						
EPA 8015B				**EPA 8015**		
RunID: GC3_090122B QC Batch: 52370				PrepDate:	1/21/2009	Analyst: **CBR**
Ethylene Glycol	ND	200		mg/Kg	1	1/22/2009 05:03 PM
Propylene Glycol	ND	200		mg/Kg	1	1/22/2009 05:03 PM
NON-HALOGENATED ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC8_BACK_090122A QC Batch: 52360				PrepDate:	1/21/2009	Analyst: **CBR**
Texanol Ester Alcohol	ND	1.0		mg/Kg	1	1/22/2009 11:15 AM
HYDROCARBON CHAIN IDENTIFICATION						
EPA 3550B				**EPA 8015B(M)**		
RunID: GC16_090122A QC Batch: 52365				PrepDate:	1/21/2009	Analyst: **CBR**
T/R Hydrocarbons: C10-C12	ND	1.0		mg/Kg	1	1/22/2009 02:15 PM
T/R Hydrocarbons: C13-C15	ND	1.0		mg/Kg	1	1/22/2009 02:15 PM
T/R Hydrocarbons: C16-C22	ND	1.0		mg/Kg	1	1/22/2009 02:15 PM
T/R Hydrocarbons: C23-C32	ND	1.0		mg/Kg	1	1/22/2009 02:15 PM
T/R Hydrocarbons:>C32	ND	1.0		mg/Kg	1	1/22/2009 02:15 PM
Surr: p-Terphenyl	91.6	30-130		%REC	1	1/22/2009 02:15 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-5-10ft
Lab Order:	103310	**Collection Date:**	1/16/2009 8:45:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-004A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GLYCOL ORGANICS BY GC/FID						
EPA 8015B				**EPA 8015**		
RunID: GC3_090122B QC Batch: 52370				PrepDate:	1/21/2009	Analyst: **CBR**
Ethylene Glycol	ND	200		mg/Kg	1	1/22/2009 05:15 PM
Propylene Glycol	ND	200		mg/Kg	1	1/22/2009 05:15 PM
NON-HALOGENATED ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC8_BACK_090122A QC Batch: 52360				PrepDate:	1/21/2009	Analyst: **CBR**
Texanol Ester Alcohol	ND	1.0		mg/Kg	1	1/22/2009 11:28 AM
HYDROCARBON CHAIN IDENTIFICATION						
EPA 3550B				**EPA 8015B(M)**		
RunID: GC16_090122A QC Batch: 52365				PrepDate:	1/21/2009	Analyst: **CBR**
T/R Hydrocarbons: C10-C12	ND	1.0		mg/Kg	1	1/22/2009 02:07 PM
T/R Hydrocarbons: C13-C15	ND	1.0		mg/Kg	1	1/22/2009 02:07 PM
T/R Hydrocarbons: C16-C22	ND	1.0		mg/Kg	1	1/22/2009 02:07 PM
T/R Hydrocarbons: C23-C32	1.1	1.0		mg/Kg	1	1/22/2009 02:07 PM
T/R Hydrocarbons:>C32	ND	1.0		mg/Kg	1	1/22/2009 02:07 PM
Surr: p-Terphenyl	76.3	30-130		%REC	1	1/22/2009 02:07 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-6-10ft
Lab Order:	103310	**Collection Date:**	1/16/2009 9:15:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-005A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GLYCOL ORGANICS BY GC/FID						
EPA 8015B				**EPA 8015**		
RunID: GC3_090122B QC Batch: 52370				PrepDate:	1/21/2009	Analyst: **CBR**
Ethylene Glycol	ND	200		mg/Kg	1	1/22/2009 05:27 PM
Propylene Glycol	ND	200		mg/Kg	1	1/22/2009 05:27 PM
NON-HALOGENATED ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC8_BACK_090122A QC Batch: 52360				PrepDate:	1/21/2009	Analyst: **CBR**
Texanol Ester Alcohol	ND	1.0		mg/Kg	1	1/22/2009 11:40 AM
HYDROCARBON CHAIN IDENTIFICATION						
EPA 3550B				**EPA 8015B(M)**		
RunID: GC16_090122A QC Batch: 52365				PrepDate:	1/21/2009	Analyst: **CBR**
T/R Hydrocarbons: C10-C12	ND	1.0		mg/Kg	1	1/22/2009 12:16 PM
T/R Hydrocarbons: C13-C15	ND	1.0		mg/Kg	1	1/22/2009 12:16 PM
T/R Hydrocarbons: C16-C22	ND	1.0		mg/Kg	1	1/22/2009 12:16 PM
T/R Hydrocarbons: C23-C32	2.6	1.0		mg/Kg	1	1/22/2009 12:16 PM
T/R Hydrocarbons:>C32	ND	1.0		mg/Kg	1	1/22/2009 12:16 PM
Surr: p-Terphenyl	82.6	30-130		%REC	1	1/22/2009 12:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS
Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-7-10ft
Lab Order:	103310	**Collection Date:**	1/16/2009 9:45:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-006A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GLYCOL ORGANICS BY GC/FID						
EPA 8015B				**EPA 8015**		
RunID: GC3_090122B QC Batch: 52370				PrepDate:		1/21/2009 Analyst: **CBR**
Ethylene Glycol	ND	200		mg/Kg	1	1/22/2009 05:39 PM
Propylene Glycol	ND	200		mg/Kg	1	1/22/2009 05:39 PM
NON-HALOGENATED ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC8_BACK_090122A QC Batch: 52360				PrepDate:		1/21/2009 Analyst: **CBR**
Texanol Ester Alcohol	ND	1.0		mg/Kg	1	1/22/2009 11:53 AM
HYDROCARBON CHAIN IDENTIFICATION						
EPA 3550B				**EPA 8015B(M)**		
RunID: GC16_090122A QC Batch: 52365				PrepDate:		1/21/2009 Analyst: **CBR**
T/R Hydrocarbons: C10-C12	ND	1.0		mg/Kg	1	1/22/2009 02:24 PM
T/R Hydrocarbons: C13-C15	2.6	1.0		mg/Kg	1	1/22/2009 02:24 PM
T/R Hydrocarbons: C16-C22	1.6	1.0		mg/Kg	1	1/22/2009 02:24 PM
T/R Hydrocarbons: C23-C32	2.7	1.0		mg/Kg	1	1/22/2009 02:24 PM
T/R Hydrocarbons:>C32	ND	1.0		mg/Kg	1	1/22/2009 02:24 PM
Surr: p-Terphenyl	81.9	30-130		%REC	1	1/22/2009 02:24 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS
Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-8-10ft
Lab Order:	103310	**Collection Date:**	1/16/2009 10:15:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-007A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GLYCOL ORGANICS BY GC/FID						
EPA 8015B				**EPA 8015**		
RunID: GC3_090122B QC Batch: 52370				PrepDate:	1/21/2009	Analyst: **CBR**
Ethylene Glycol	ND	200		mg/Kg	1	1/22/2009 05:51 PM
Propylene Glycol	ND	200		mg/Kg	1	1/22/2009 05:51 PM
NON-HALOGENATED ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC8_BACK_090122A QC Batch: 52360				PrepDate:	1/21/2009	Analyst: **CBR**
Texanol Ester Alcohol	ND	1.0		mg/Kg	1	1/22/2009 12:05 PM
HYDROCARBON CHAIN IDENTIFICATION						
EPA 3550B				**EPA 8015B(M)**		
RunID: GC16_090122A QC Batch: 52365				PrepDate:	1/21/2009	Analyst: **CBR**
T/R Hydrocarbons: C10-C12	ND	1.0		mg/Kg	1	1/22/2009 12:44 PM
T/R Hydrocarbons: C13-C15	ND	1.0		mg/Kg	1	1/22/2009 12:44 PM
T/R Hydrocarbons: C16-C22	1.3	1.0		mg/Kg	1	1/22/2009 12:44 PM
T/R Hydrocarbons: C23-C32	6.6	1.0		mg/Kg	1	1/22/2009 12:44 PM
T/R Hydrocarbons:>C32	ND	1.0		mg/Kg	1	1/22/2009 12:44 PM
Surr: p-Terphenyl	82.1	30-130		%REC	1	1/22/2009 12:44 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS
Print Date: *23-Jan-09*

CLIENT: Ardent Environmental Group
Lab Order: 103310
Project: Hudson Avenue, 100148002
Lab ID: 103310-008A

Client Sample ID: AB-9-10ft
Collection Date: 1/16/2009 11:00:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GLYCOL ORGANICS BY GC/FID						
EPA 8015B				**EPA 8015**		
RunID: GC3_090122B QC Batch: 52370				PrepDate:		1/21/2009 Analyst: **CBR**
Ethylene Glycol	ND	200		mg/Kg	1	1/22/2009 06:03 PM
Propylene Glycol	ND	200		mg/Kg	1	1/22/2009 06:03 PM
NON-HALOGENATED ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC8_BACK_090122A QC Batch: 52360				PrepDate:		1/21/2009 Analyst: **CBR**
Texanol Ester Alcohol	ND	1.0		mg/Kg	1	1/22/2009 12:17 PM
HYDROCARBON CHAIN IDENTIFICATION						
EPA 3550B				**EPA 8015B(M)**		
RunID: GC16_090122A QC Batch: 52365				PrepDate:		1/21/2009 Analyst: **CBR**
T/R Hydrocarbons: C10-C12	ND	1.0		mg/Kg	1	1/22/2009 12:53 PM
T/R Hydrocarbons: C13-C15	2.9	1.0		mg/Kg	1	1/22/2009 12:53 PM
T/R Hydrocarbons: C16-C22	1.3	1.0		mg/Kg	1	1/22/2009 12:53 PM
T/R Hydrocarbons: C23-C32	2.3	1.0		mg/Kg	1	1/22/2009 12:53 PM
T/R Hydrocarbons:>C32	ND	1.0		mg/Kg	1	1/22/2009 12:53 PM
Surr: p-Terphenyl	89.0	30-130		%REC	1	1/22/2009 12:53 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-10-5ft
Lab Order:	103310	**Collection Date:**	1/16/2009
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-010A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GLYCOL ORGANICS BY GC/FID						
EPA 8015B				**EPA 8015**		
RunID: GC3_090122B QC Batch: 52370				PrepDate:	1/21/2009	Analyst: **CBR**
Ethylene Glycol	ND	200		mg/Kg	1	1/22/2009 06:15 PM
Propylene Glycol	ND	200		mg/Kg	1	1/22/2009 06:15 PM
NON-HALOGENATED ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC8_BACK_090122A QC Batch: 52360				PrepDate:	1/21/2009	Analyst: **CBR**
Texanol Ester Alcohol	ND	1.0		mg/Kg	1	1/22/2009 12:30 PM
HYDROCARBON CHAIN IDENTIFICATION						
EPA 3550B				**EPA 8015B(M)**		
RunID: GC16_090122A QC Batch: 52365				PrepDate:	1/21/2009	Analyst: **CBR**
T/R Hydrocarbons: C10-C12	ND	1.0		mg/Kg	1	1/22/2009 01:01 PM
T/R Hydrocarbons: C13-C15	1.4	1.0		mg/Kg	1	1/22/2009 01:01 PM
T/R Hydrocarbons: C16-C22	1.2	1.0		mg/Kg	1	1/22/2009 01:01 PM
T/R Hydrocarbons: C23-C32	4.7	1.0		mg/Kg	1	1/22/2009 01:01 PM
T/R Hydrocarbons:>C32	ND	1.0		mg/Kg	1	1/22/2009 01:01 PM
Surr: p-Terphenyl	72.8	30-130		%REC	1	1/22/2009 01:01 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-11-5ft
Lab Order:	103310	**Collection Date:**	1/16/2009 11:30:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-011A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GLYCOL ORGANICS BY GC/FID						
EPA 8015B				**EPA 8015**		
RunID: GC3_090122B QC Batch: 52370				PrepDate:		1/21/2009 Analyst: **CBR**
Ethylene Glycol	ND	200		mg/Kg	1	1/22/2009 06:27 PM
Propylene Glycol	ND	200		mg/Kg	1	1/22/2009 06:27 PM
NON-HALOGENATED ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC8_BACK_090122A QC Batch: 52360				PrepDate:		1/21/2009 Analyst: **CBR**
Texanol Ester Alcohol	ND	1.0		mg/Kg	1	1/22/2009 12:42 PM
HYDROCARBON CHAIN IDENTIFICATION						
EPA 3550B				**EPA 8015B(M)**		
RunID: GC16_090122A QC Batch: 52365				PrepDate:		1/21/2009 Analyst: **CBR**
T/R Hydrocarbons: C10-C12	ND	1.0		mg/Kg	1	1/22/2009 01:11 PM
T/R Hydrocarbons: C13-C15	ND	1.0		mg/Kg	1	1/22/2009 01:11 PM
T/R Hydrocarbons: C16-C22	1.9	1.0		mg/Kg	1	1/22/2009 01:11 PM
T/R Hydrocarbons: C23-C32	6.4	1.0		mg/Kg	1	1/22/2009 01:11 PM
T/R Hydrocarbons:>C32	ND	1.0		mg/Kg	1	1/22/2009 01:11 PM
Surr: p-Terphenyl	76.0	30-130		%REC	1	1/22/2009 01:11 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-14-5ft
Lab Order:	103310	**Collection Date:**	1/16/2009 11:50:00 AM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-012A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GLYCOL ORGANICS BY GC/FID						
EPA 8015B				**EPA 8015**		
RunID: GC3_090122B QC Batch: 52370				PrepDate:	1/21/2009	Analyst: **CBR**
Ethylene Glycol	ND	200		mg/Kg	1	1/22/2009 06:39 PM
Propylene Glycol	ND	200		mg/Kg	1	1/22/2009 06:39 PM
NON-HALOGENATED ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC8_BACK_090122A QC Batch: 52360				PrepDate:	1/21/2009	Analyst: **CBR**
Texanol Ester Alcohol	ND	1.0		mg/Kg	1	1/22/2009 12:55 PM
HYDROCARBON CHAIN IDENTIFICATION						
EPA 3550B				**EPA 8015B(M)**		
RunID: GC16_090122A QC Batch: 52365				PrepDate:	1/21/2009	Analyst: **CBR**
T/R Hydrocarbons: C10-C12	ND	1.0		mg/Kg	1	1/22/2009 01:20 PM
T/R Hydrocarbons: C13-C15	ND	1.0		mg/Kg	1	1/22/2009 01:20 PM
T/R Hydrocarbons: C16-C22	ND	1.0		mg/Kg	1	1/22/2009 01:20 PM
T/R Hydrocarbons: C23-C32	1.7	1.0		mg/Kg	1	1/22/2009 01:20 PM
T/R Hydrocarbons:>C32	ND	1.0		mg/Kg	1	1/22/2009 01:20 PM
Surr: p-Terphenyl	113	30-130		%REC	1	1/22/2009 01:20 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS
Print Date: *23-Jan-09*

CLIENT: Ardent Environmental Group
Lab Order: 103310
Project: Hudson Avenue, 100148002
Lab ID: 103310-013A

Client Sample ID: AB-12-5ft
Collection Date: 1/16/2009 12:25:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GLYCOL ORGANICS BY GC/FID						
EPA 8015B				**EPA 8015**		
RunID: GC3_090122B QC Batch: 52370				PrepDate:	1/21/2009	Analyst: **CBR**
Ethylene Glycol	ND	200		mg/Kg	1	1/22/2009 06:51 PM
Propylene Glycol	ND	200		mg/Kg	1	1/22/2009 06:51 PM
NON-HALOGENATED ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC8_BACK_090122A QC Batch: 52360				PrepDate:	1/21/2009	Analyst: **CBR**
Texanol Ester Alcohol	ND	1.0		mg/Kg	1	1/22/2009 01:07 PM
HYDROCARBON CHAIN IDENTIFICATION						
EPA 3550B				**EPA 8015B(M)**		
RunID: GC16_090122A QC Batch: 52365				PrepDate:	1/21/2009	Analyst: **CBR**
T/R Hydrocarbons: C10-C12	ND	1.0		mg/Kg	1	1/22/2009 01:29 PM
T/R Hydrocarbons: C13-C15	ND	1.0		mg/Kg	1	1/22/2009 01:29 PM
T/R Hydrocarbons: C16-C22	ND	1.0		mg/Kg	1	1/22/2009 01:29 PM
T/R Hydrocarbons: C23-C32	1.6	1.0		mg/Kg	1	1/22/2009 01:29 PM
T/R Hydrocarbons:>C32	ND	1.0		mg/Kg	1	1/22/2009 01:29 PM
Surr: p-Terphenyl	84.3	30-130		%REC	1	1/22/2009 01:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-13-5ft
Lab Order:	103310	**Collection Date:**	1/16/2009 12:45:00 PM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-014A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GLYCOL ORGANICS BY GC/FID						
EPA 8015B				**EPA 8015**		
RunID: GC3_090122B QC Batch: 52370				PrepDate:	1/21/2009	Analyst: **CBR**
Ethylene Glycol	ND	200		mg/Kg	1	1/22/2009 07:03 PM
Propylene Glycol	ND	200		mg/Kg	1	1/22/2009 07:03 PM
NON-HALOGENATED ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC8_BACK_090122A QC Batch: 52360				PrepDate:	1/21/2009	Analyst: **CBR**
Texanol Ester Alcohol	ND	1.0		mg/Kg	1	1/22/2009 01:20 PM
HYDROCARBON CHAIN IDENTIFICATION						
EPA 3550B				**EPA 8015B(M)**		
RunID: GC16_090122A QC Batch: 52365				PrepDate:	1/21/2009	Analyst: **CBR**
T/R Hydrocarbons: C10-C12	ND	1.0		mg/Kg	1	1/22/2009 01:40 PM
T/R Hydrocarbons: C13-C15	1.6	1.0		mg/Kg	1	1/22/2009 01:40 PM
T/R Hydrocarbons: C16-C22	1.2	1.0		mg/Kg	1	1/22/2009 01:40 PM
T/R Hydrocarbons: C23-C32	1.3	1.0		mg/Kg	1	1/22/2009 01:40 PM
T/R Hydrocarbons:>C32	ND	1.0		mg/Kg	1	1/22/2009 01:40 PM
Surr: p-Terphenyl	66.1	30-130		%REC	1	1/22/2009 01:40 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *23-Jan-09*

CLIENT:	Ardent Environmental Group	**Client Sample ID:**	AB-15-5ft
Lab Order:	103310	**Collection Date:**	1/16/2009 1:00:00 PM
Project:	Hudson Avenue, 100148002	**Matrix:**	SOIL
Lab ID:	103310-015A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GLYCOL ORGANICS BY GC/FID						
EPA 8015B				**EPA 8015**		
RunID: GC3_090122B QC Batch: 52370				PrepDate:	1/21/2009	Analyst: **CBR**
Ethylene Glycol	ND	200		mg/Kg	1	1/22/2009 07:15 PM
Propylene Glycol	ND	200		mg/Kg	1	1/22/2009 07:15 PM
NON-HALOGENATED ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B**		
RunID: GC8_BACK_090122A QC Batch: 52360				PrepDate:	1/21/2009	Analyst: **CBR**
Texanol Ester Alcohol	ND	1.0		mg/Kg	1	1/22/2009 01:33 PM
HYDROCARBON CHAIN IDENTIFICATION						
EPA 3550B				**EPA 8015B(M)**		
RunID: GC16_090122A QC Batch: 52365				PrepDate:	1/21/2009	Analyst: **CBR**
T/R Hydrocarbons: C10-C12	ND	1.0		mg/Kg	1	1/22/2009 01:49 PM
T/R Hydrocarbons: C13-C15	1.0	1.0		mg/Kg	1	1/22/2009 01:49 PM
T/R Hydrocarbons: C16-C22	1.0	1.0		mg/Kg	1	1/22/2009 01:49 PM
T/R Hydrocarbons: C23-C32	1.9	1.0		mg/Kg	1	1/22/2009 01:49 PM
T/R Hydrocarbons:>C32	ND	1.0		mg/Kg	1	1/22/2009 01:49 PM
Surr: p-Terphenyl	74.7	30-130		%REC	1	1/22/2009 01:49 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Ardent Environmental Group
Work Order: 103310
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_EGLY

Sample ID: **MB-52370** SampType: **MBLK** TestCode: **8015_S_EGL** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104659**
Client ID: **PBS** Batch ID: **52370** TestNo: **EPA 8015** **EPA 8015B** Analysis Date: **1/22/2009** SeqNo: **1638991**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylene Glycol	ND	200									
Propylene Glycol	ND	200									

Sample ID: **LCS-52370** SampType: **LCS** TestCode: **8015_S_EGL** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104659**
Client ID: **LCSS** Batch ID: **52370** TestNo: **EPA 8015** **EPA 8015B** Analysis Date: **1/22/2009** SeqNo: **1638992**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylene Glycol	1148.035	200	1000	0	115	70	130				
Propylene Glycol	1212.755	200	1000	0	121	70	130				

Sample ID: **103310-005AMS** SampType: **MS** TestCode: **8015_S_EGL** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104659**
Client ID: **AB-6-10ft** Batch ID: **52370** TestNo: **EPA 8015** **EPA 8015B** Analysis Date: **1/22/2009** SeqNo: **1638993**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylene Glycol	1067.998	200	1000	0	107	70	130				
Propylene Glycol	1105.148	200	1000	0	111	70	130				

Sample ID: **103310-005AMSD** SampType: **MSD** TestCode: **8015_S_EGL** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104659**
Client ID: **AB-6-10ft** Batch ID: **52370** TestNo: **EPA 8015** **EPA 8015B** Analysis Date: **1/22/2009** SeqNo: **1638994**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylene Glycol	1100.631	200	1000	0	110	70	130	1068	3.01	30	
Propylene Glycol	1152.965	200	1000	0	115	70	130	1105	4.24	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ardent Environmental Group
Work Order: 103310
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_ESTER

Sample ID: MB-52360	SampType: MBLK	TestCode: 8015_S_EST	Units: mg/Kg	Prep Date: 1/21/2009	RunNo: 104787
Client ID: PBS	Batch ID: 52360	TestNo: EPA 8015B	EPA 3550B	Analysis Date: 1/22/2009	SeqNo: 1639175

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Texanol Ester Alcohol	ND	1.0									

Sample ID: LCS-52360	SampType: LCS	TestCode: 8015_S_EST	Units: mg/Kg	Prep Date: 1/21/2009	RunNo: 104787
Client ID: LCSS	Batch ID: 52360	TestNo: EPA 8015B	EPA 3550B	Analysis Date: 1/22/2009	SeqNo: 1639176

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Texanol Ester Alcohol	3.683	1.0	5.000	0	73.7	70	130				

Sample ID: 103310-006AMS	SampType: MS	TestCode: 8015_S_EST	Units: mg/Kg	Prep Date: 1/21/2009	RunNo: 104787
Client ID: AB-7-10ft	Batch ID: 52360	TestNo: EPA 8015B	EPA 3550B	Analysis Date: 1/22/2009	SeqNo: 1639177

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Texanol Ester Alcohol	3.666	1.0	5.000	0	73.3	70	130				

Sample ID: 103310-006AMSD	SampType: MSD	TestCode: 8015_S_EST	Units: mg/Kg	Prep Date: 1/21/2009	RunNo: 104787
Client ID: AB-7-10ft	Batch ID: 52360	TestNo: EPA 8015B	EPA 3550B	Analysis Date: 1/22/2009	SeqNo: 1639178

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Texanol Ester Alcohol	4.292	1.0	5.000	0	85.8	70	130	3.666	15.8	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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CLIENT: Ardent Environmental Group
Work Order: 103310
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **K090119LC1** SampType: **LCS** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104609**
Client ID: **LCSS** Batch ID: **K09VS016** TestNo: **EPA 8260B** Analysis Date: **1/19/2009** SeqNo: **1636001**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	47.530	5.0	50.00	0	95.1	70	130				
Benzene	96.670	5.0	100.0	0	96.7	70	130				
Chlorobenzene	47.280	5.0	50.00	0	94.6	70	130				
MTBE	45.000	5.0	50.00	0	90.0	70	130				
Toluene	93.330	5.0	100.0	0	93.3	70	130				
Trichloroethene	48.350	5.0	50.00	0	96.7	70	130				
Surr: 1,2-Dichloroethane-d4	51.330		50.00		103	70	130				
Surr: 4-Bromofluorobenzene	48.940		50.00		97.9	70	130				
Surr: Dibromofluoromethane	50.720		50.00		101	70	130				
Surr: Toluene-d8	43.900		50.00		87.8	70	130				

Sample ID: **K090119MB2MS** SampType: **MS** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104609**
Client ID: **ZZZZZZ** Batch ID: **K09VS016** TestNo: **EPA 8260B** Analysis Date: **1/19/2009** SeqNo: **1636002**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	50.450	5.0	50.00	0	101	70	130				
Benzene	98.390	5.0	100.0	0	98.4	70	130				
Chlorobenzene	48.860	5.0	50.00	0	97.7	70	130				
Toluene	93.400	5.0	100.0	0	93.4	70	130				
Trichloroethene	48.370	5.0	50.00	0	96.7	70	130				
Surr: 1,2-Dichloroethane-d4	47.520		50.00		95.0	70	130				
Surr: 4-Bromofluorobenzene	44.010		50.00		88.0	70	130				
Surr: Dibromofluoromethane	45.740		50.00		91.5	70	130				
Surr: Toluene-d8	39.960		50.00		79.9	70	130				

Sample ID: **K090119MB2MSD** SampType: **MSD** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104609**
Client ID: **ZZZZZZ** Batch ID: **K09VS016** TestNo: **EPA 8260B** Analysis Date: **1/19/2009** SeqNo: **1636003**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	48.390	5.0	50.00	0	96.8	70	130	50.45	4.17	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

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CLIENT: Ardent Environmental Group
Work Order: 103310
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **K090119MB2MSD** SampType: **MSD** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104609**
Client ID: **ZZZZZZ** Batch ID: **K09VS016** TestNo: **EPA 8260B** Analysis Date: **1/19/2009** SeqNo: **1636003**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	97.020	5.0	100.0	0	97.0	70	130	98.39	1.40	20	
Chlorobenzene	52.010	5.0	50.00	0	104	70	130	48.86	6.25	20	
Toluene	94.040	5.0	100.0	0	94.0	70	130	93.40	0.683	20	
Trichloroethene	48.950	5.0	50.00	0	97.9	70	130	48.37	1.19	20	
Surr: 1,2-Dichloroethane-d4	47.290		50.00		94.6	70	130		0	20	
Surr: 4-Bromofluorobenzene	46.020		50.00		92.0	70	130		0	20	
Surr: Dibromofluoromethane	46.250		50.00		92.5	70	130		0	20	
Surr: Toluene-d8	40.790		50.00		81.6	70	130		0	20	

Sample ID: **K090119MB2** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104609**
Client ID: **PBS** Batch ID: **K09VS016** TestNo: **EPA 8260B** Analysis Date: **1/19/2009** SeqNo: **1636004**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ardent Environmental Group
Work Order: 103310
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **K090119MB2** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104609**
Client ID: **PBS** Batch ID: **K09VS016** TestNo: **EPA 8260B** Analysis Date: **1/19/2009** SeqNo: **1636004**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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CLIENT: Ardent Environmental Group
Work Order: 103310
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **K090119MB2** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104609**
Client ID: **PBS** Batch ID: **K09VS016** TestNo: **EPA 8260B** Analysis Date: **1/19/2009** SeqNo: **1636004**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	52.600		50.00		105	70	130				
Surr: 4-Bromofluorobenzene	48.730		50.00		97.5	70	130				
Surr: Dibromofluoromethane	53.050		50.00		106	70	130				
Surr: Toluene-d8	42.940		50.00		85.9	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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CLIENT: Ardent Environmental Group
Work Order: 103310
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **K090120LC1** SampType: **LCS** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104635**
Client ID: **LCSS** Batch ID: **K09VS017** TestNo: **EPA 8260B** Analysis Date: **1/20/2009** SeqNo: **1636461**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	47.970	5.0	50.00	0	95.9	70	130				
Benzene	95.410	5.0	100.0	0	95.4	70	130				
Chlorobenzene	47.520	5.0	50.00	0	95.0	70	130				
MTBE	46.850	5.0	50.00	0	93.7	70	130				
Toluene	91.380	5.0	100.0	0	91.4	70	130				
Trichloroethene	47.130	5.0	50.00	0	94.3	70	130				
Surr: 1,2-Dichloroethane-d4	48.120		50.00		96.2	70	130				
Surr: 4-Bromofluorobenzene	45.850		50.00		91.7	70	130				
Surr: Dibromofluoromethane	47.120		50.00		94.2	70	130				
Surr: Toluene-d8	39.950		50.00		79.9	70	130				

Sample ID: **K090120MB2MS** SampType: **MS** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104635**
Client ID: **ZZZZZZ** Batch ID: **K09VS017** TestNo: **EPA 8260B** Analysis Date: **1/20/2009** SeqNo: **1636462**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	47.980	5.0	50.00	0	96.0	70	130				
Benzene	95.800	5.0	100.0	0	95.8	70	130				
Chlorobenzene	47.390	5.0	50.00	0	94.8	70	130				
Toluene	92.620	5.0	100.0	0	92.6	70	130				
Trichloroethene	48.350	5.0	50.00	0	96.7	70	130				
Surr: 1,2-Dichloroethane-d4	49.800		50.00		99.6	70	130				
Surr: 4-Bromofluorobenzene	46.240		50.00		92.5	70	130				
Surr: Dibromofluoromethane	47.930		50.00		95.9	70	130				
Surr: Toluene-d8	42.130		50.00		84.3	70	130				

Sample ID: **K090120MB2MSD** SampType: **MSD** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104635**
Client ID: **ZZZZZZ** Batch ID: **K09VS017** TestNo: **EPA 8260B** Analysis Date: **1/20/2009** SeqNo: **1636463**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	48.970	5.0	50.00	0	97.9	70	130	47.98	2.04	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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CLIENT: Ardent Environmental Group
Work Order: 103310
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **K090120MB2MSD** SampType: **MSD** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104635**
Client ID: **ZZZZZZ** Batch ID: **K09VS017** TestNo: **EPA 8260B** Analysis Date: **1/20/2009** SeqNo: **1636463**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	95.680	5.0	100.0	0	95.7	70	130	95.80	0.125	20	
Chlorobenzene	48.040	5.0	50.00	0	96.1	70	130	47.39	1.36	20	
Toluene	93.320	5.0	100.0	0	93.3	70	130	92.62	0.753	20	
Trichloroethene	49.360	5.0	50.00	0	98.7	70	130	48.35	2.07	20	
Surr: 1,2-Dichloroethane-d4	47.130		50.00		94.3	70	130		0	20	
Surr: 4-Bromofluorobenzene	44.450		50.00		88.9	70	130		0	20	
Surr: Dibromofluoromethane	46.820		50.00		93.6	70	130		0	20	
Surr: Toluene-d8	40.270		50.00		80.5	70	130		0	20	

Sample ID: **K090120MB2** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104635**
Client ID: **PBS** Batch ID: **K09VS017** TestNo: **EPA 8260B** Analysis Date: **1/20/2009** SeqNo: **1636464**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ardent Environmental Group
Work Order: 103310
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **K090120MB2** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104635**
Client ID: **PBS** Batch ID: **K09VS017** TestNo: **EPA 8260B** Analysis Date: **1/20/2009** SeqNo: **1636464**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

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CLIENT: Ardent Environmental Group
Work Order: 103310
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: **K090120MB2** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **104635**
Client ID: **PBS** Batch ID: **K09VS017** TestNo: **EPA 8260B** Analysis Date: **1/20/2009** SeqNo: **1636464**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	50.470		50.00		101	70	130				
Surr: 4-Bromofluorobenzene	47.610		50.00		95.2	70	130				
Surr: Dibromofluoromethane	49.760		50.00		99.5	70	130				
Surr: Toluene-d8	42.060		50.00		84.1	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ardent Environmental Group
Work Order: 103310
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

BatchID: 52360

Sample ID: **MB-52360** SampType: **MBLK** TestCode: **8015_S_EST** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104787**
Client ID: **PBS** Batch ID: **52360** TestNo: **EPA 8015B** **EPA 3550B** Analysis Date: **1/22/2009** SeqNo: **1639175**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Texanol Ester Alcohol	ND	1.0									

Sample ID: **LCS-52360** SampType: **LCS** TestCode: **8015_S_EST** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104787**
Client ID: **LCSS** Batch ID: **52360** TestNo: **EPA 8015B** **EPA 3550B** Analysis Date: **1/22/2009** SeqNo: **1639176**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Texanol Ester Alcohol	3.683	1.0	5.000	0	73.7	70	130				

Sample ID: **103310-006AMS** SampType: **MS** TestCode: **8015_S_EST** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104787**
Client ID: **AB-7-10ft** Batch ID: **52360** TestNo: **EPA 8015B** **EPA 3550B** Analysis Date: **1/22/2009** SeqNo: **1639177**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Texanol Ester Alcohol	3.666	1.0	5.000	0	73.3	70	130				

Sample ID: **103310-006AMSD** SampType: **MSD** TestCode: **8015_S_EST** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104787**
Client ID: **AB-7-10ft** Batch ID: **52360** TestNo: **EPA 8015B** **EPA 3550B** Analysis Date: **1/22/2009** SeqNo: **1639178**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Texanol Ester Alcohol	4.292	1.0	5.000	0	85.8	70	130	3.666	15.8	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ardent Environmental Group
Work Order: 103310
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

BatchID: 52365

Sample ID: **MB-52365** SampType: **MBLK** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104748**
Client ID: **PBS** Batch ID: **52365** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **1/22/2009** SeqNo: **1638390**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	1.0									
Surr: p-Terphenyl	2.059		2.670		77.1	30	130				

Sample ID: **LCS-52365** SampType: **LCS** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104748**
Client ID: **LCSS** Batch ID: **52365** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **1/22/2009** SeqNo: **1638391**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	32.299	1.0	33.00	0	97.9	35	124				
Surr: p-Terphenyl	2.024		2.670		75.8	30	130				

Sample ID: **103310-004AMS** SampType: **MS** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104748**
Client ID: **AB-5-10ft** Batch ID: **52365** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **1/22/2009** SeqNo: **1638395**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	26.846	1.0	33.00	2.826	72.8	12	125				
Surr: p-Terphenyl	1.845		2.670		69.1	30	130				

Sample ID: **103310-004AMSD** SampType: **MSD** TestCode: **8015_S_DSL** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104748**
Client ID: **AB-5-10ft** Batch ID: **52365** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **1/22/2009** SeqNo: **1638398**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	28.420	1.0	33.00	2.826	77.6	12	125	26.85	5.69	20	
Surr: p-Terphenyl	2.100		2.670		78.6	30	130		0	0	

Sample ID: **MB-52365** SampType: **MBLK** TestCode: **HC_S_SEMI_** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104748**
Client ID: **PBS** Batch ID: **52365** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **1/22/2009** SeqNo: **1638469**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C12+ to C22	ND	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ardent Environmental Group
Work Order: 103310
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

BatchID: 52365

Sample ID: MB-52365	SampType: MBLK	TestCode: HC_S_SEMI_	Units: mg/Kg	Prep Date: 1/21/2009	RunNo: 104748
Client ID: PBS	Batch ID: 52365	TestNo: EPA 8015B(M	EPA 3550B	Analysis Date: 1/22/2009	SeqNo: 1638469

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C13-C22	ND	1.0									
C18-C36	ND	1.0									
C22+ to C40	ND	1.0									
C23-C39	ND	1.0									
T/R Hydrocarbons: C8-C10	ND	1.0									
T/R Hydrocarbons: C8-C12	ND	1.0									
T/R Hydrocarbons: C8-C26	ND	1.0									
T/R Hydrocarbons: C9-C25	ND	1.0									
T/R Hydrocarbons: C10-C12	ND	1.0									
T/R Hydrocarbons: C11-C22	ND	1.0									
T/R Hydrocarbons: C10-C28	ND	1.0									
T/R Hydrocarbons: C12-C16	ND	1.0									
T/R Hydrocarbons: C12-C40	ND	1.0									
T/R Hydrocarbons: C13-C15	ND	1.0									
T/R Hydrocarbons: C13-C22	ND	1.0									
T/R Hydrocarbons: C13-C23	ND	1.0									
T/R Hydrocarbons: C16-C20	ND	1.0									
T/R Hydrocarbons: C16-C22	ND	1.0									
T/R Hydrocarbons: C20-C24	ND	1.0									
T/R Hydrocarbons: C23-C32	ND	1.0									
T/R Hydrocarbons: C23-C40	ND	1.0									
T/R Hydrocarbons: C24-C28	ND	1.0									
T/R Hydrocarbons: C24-C40	ND	1.0									
T/R Hydrocarbons: C28-C32	ND	1.0									
T/R Hydrocarbons: C28-C36	ND	1.0									
T/R Hydrocarbons: C32-C36	ND	1.0									
T/R Hydrocarbons: C33-C40	ND	1.0									
T/R Hydrocarbons: C36-C40	ND	1.0									
T/R Hydrocarbons: C6-C12	ND	1.0									
T/R Hydrocarbons:>C23	ND	1.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Advanced Technology Laboratories 3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Ardent Environmental Group
Work Order: 103310
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

BatchID: 52365

Sample ID: **MB-52365**	SampType: **MBLK**	TestCode: **HC_S_SEMI_** Units: **mg/Kg**	Prep Date: **1/21/2009**	RunNo: **104748**
Client ID: **PBS**	Batch ID: **52365**	TestNo: **EPA 8015B(M EPA 3550B**	Analysis Date: **1/22/2009**	SeqNo: **1638469**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons:>C32	ND	1.0									
T/R Hydrocarbons:>C40	ND	1.0									
Surr: p-Terphenyl	2.059		2.670		77.1	30	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Ardent Environmental Group
Work Order: 103310
Project: Hudson Avenue, 100148002

ANALYTICAL QC SUMMARY REPORT

BatchID: 52370

Sample ID: **MB-52370** SampType: **MBLK** TestCode: **8015_S_EGL** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104659**
Client ID: **PBS** Batch ID: **52370** TestNo: **EPA 8015** **EPA 8015B** Analysis Date: **1/22/2009** SeqNo: **1638991**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylene Glycol	ND	200									
Propylene Glycol	ND	200									

Sample ID: **LCS-52370** SampType: **LCS** TestCode: **8015_S_EGL** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104659**
Client ID: **LCSS** Batch ID: **52370** TestNo: **EPA 8015** **EPA 8015B** Analysis Date: **1/22/2009** SeqNo: **1638992**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylene Glycol	1148.035	200	1000	0	115	70	130				
Propylene Glycol	1212.755	200	1000	0	121	70	130				

Sample ID: **103310-005AMS** SampType: **MS** TestCode: **8015_S_EGL** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104659**
Client ID: **AB-6-10ft** Batch ID: **52370** TestNo: **EPA 8015** **EPA 8015B** Analysis Date: **1/22/2009** SeqNo: **1638993**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylene Glycol	1067.998	200	1000	0	107	70	130				
Propylene Glycol	1105.148	200	1000	0	111	70	130				

Sample ID: **103310-005AMSD** SampType: **MSD** TestCode: **8015_S_EGL** Units: **mg/Kg** Prep Date: **1/21/2009** RunNo: **104659**
Client ID: **AB-6-10ft** Batch ID: **52370** TestNo: **EPA 8015** **EPA 8015B** Analysis Date: **1/22/2009** SeqNo: **1638994**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylene Glycol	1100.631	200	1000	0	110	70	130	1068	3.01	30	
Propylene Glycol	1152.965	200	1000	0	115	70	130	1105	4.24	30	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562.989.4045* *Fax: 562.989.4040*

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#:

Logged By: Date: 1/19/09

Method of Transport: Client ☑ ATL ☐ CA OverN ☐ FEDEX ☐ Other:

Sample Condition Upon Receipt:
1. CHILLED 2-4 Y☑ N☐ 4. SEALED Y☐ N☑
2. HEADSPACE (VOA) Y☐ N☐ N/A 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☐ N☑

Client: Ardent Environmental Group
Attn: Paul Roberts
Address: 1141 Pomona Rd Suite E
City Corona State Ca Zip Code 92882
TEL: (951) 736 5338
FAX: (951) 736-7560

Project Name: Hudson Avenue
Project #: 100148002
Sampler: (Printed Name) Connie Lizarraga (Signature) Connie Lizarraga

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Connie Lizarraga	1/16/08	15:00		1/16/09	1500

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Paul Roberts 1/16/08
Print Name Date
Signature

Send Report To:
Attn: Paul Roberts
Co: Ardent Environmental
Address 1141 Pomona Rd Suite E
City Corona State Ca Zip 92882

Bill To:
Attn: Paul Roberts
Co: Ardent Environmental
Address 1141 Pomona Rd Suite E
City Corona State Ca Zip 92882

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	TPH as C10-C32 (8015)	ethylene glycol (8015)	propylene glycol (8015)	ester alcohol	SOIL	WATER	GROUND WATER	WASTEWATER			TAT	Container(s) #	Type	PRESERVATION	REMARKS
	103310 - 1	AB-3-15ft	1/16	7:25			X											X						E	1	T P		
	2	AB-2-15ft	1/16	7:45			X																		1			
	3	AB-4-10ft	1/16	8:25			X							X	X	X	X								1			
	4	AB-5-10ft	1/16	8:45			X							X	X	X	X								1			
	5	AB-6-10ft	1/16	9:15			X							X	X	X	X								1			
	6	AB-7-10ft	1/16	9:45			X							X	X	X	X								1			
	7	AB-8-10ft	1/16	10:15			X							X	X	X	X								1			
	8	AB-9-10ft	1/16	11:00			X							X	X	X	X								1			
	9	AB-9-25ft	1/16	11:15			X																		1			
	10	AB-10-5ft					X							X	X	X	X								1			

• TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____

Logged By: _____ Date: _____

Method of Transport: Client ☑ ATL ☐ CA OverN ☐ FEDEX ☐ Other: _____

Sample Condition Upon Receipt:
1. CHILLED 2°C Y☑ N☐ 4. SEALED Y☐ N☑
2. HEADSPACE (VOA) Y☐ N☐ N/A 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☐ N☑

Client: Ardent Environmental Group
Attn: Paul Roberts PRoberts@ArdentEnv.com
Address: 1141 Pomona Road Suite E
City: Corona State: CA Zip Code: 92882
TEL: (951) 736-5334
FAX: (951) 736-7560

Project Name: Hudson Avenue Project #: 100148002 Sampler: (Printed Name) Connie Lizarraga (Signature) Connie Lizarraga

Relinquished by: (Signature and Printed Name) Connie Lizarraga Connie Lizarraga Date: 1/16/08 Time: 15:00 Received by: (Signature and Printed Name) [illegible] Date: 1/16/08 Time: 1500

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Paul Roberts 1/16/08
Print Name Date
Signature

Send Report To:
Attn: Paul Roberts
Co: Ardent Environmental
Address: 1141 Pomona Rd Suite E
City: Corona State: Ca Zip: 92882

Bill To:
Attn: Paul Roberts
Co: Ardent
Address: 1141 Pomona Rd Suite E
City: Corona State: Ca Zip: 92882

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	TPHcc C10-C32 (8015)	Ethylene glycol (8015)	Propylene glycol (8015)	Ester alcohol	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	103310 - 11	AB-11-5ft	1/16	11:30			X							X	X	X	X	X				E	1	T	P	
	12	AB-14-5ft	↓	11:50			X							X	X	X	X	↓				↓	↓	↓	↓	
	13	AB-12-5ft	↓	12:25			X							X	X	X	X	↓				↓	↓	↓	↓	
	14	AB-13-5ft	↓	12:45			X							X	X	X	X	↓				↓	↓	↓	↓	
	15	AB-15-5ft	↓	1:00			X							X	X	X	X	↓				↓	↓	↓	↓	

Q A / Q C
RTNE ☐
CT ☐
SWRCB ☐
Logcode _____
OTHER _____

• TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

APPENDIX B

RISK ASSESSMENT DOCUMENTATION

Chemicals and Soil Gas Concentrations in µg/m^3

Location	BENZENE	ETHYLBENZENE	M,P-XYLENES	O-XYLENES	TETRACHLOROETHYLENE	TOLUENE	
SG-1-5	120.00	100.00	530.00	100.00	720.00	630.00	
SG-2-5	170.00	100.00	640.00	230.00	150.00	810.00	
SG-3-5	100.00	100.00	660.00	240.00	140.00	960.00	
SG-4-5	150.00	210.00	760.00	280.00	290.00	830.00	
SG-5-5	360.00	210.00	750.00	300.00	100.00	1000.00	
SG-6-5	50.00	100.00	620.00	240.00	50.00	690.00	
SG-7-5	190.00	100.00	640.00	240.00	50.00	780.00	
SG-8-5	260.00	100.00	650.00	240.00	120.00	890.00	
SG-9-5	50.00	100.00	640.00	260.00	50.00	720.00	
SG-10-5	280.00	200.00	750.00	290.00	50.00	1100.00	
SG-11-5	160.00	100.00	720.00	280.00	50.00	870.00	
SG-12-5	120.00	100.00	250.00	100.00	50.00	250.00	
Descriptive Statistics and Representative Exposure Concentrations in µg/m^3							
Minimum	50.00	100.00	250.00	100.00	50.00	250.00	
Maximum	360.00	210.00	760.00	300.00	720.00	1100.00	
Mean	167.50	126.67	634.17	233.33	151.67	794.17	
95% UCL	215.89	152.61	701.61	266.36	393.99	906.83	**Totals**
ECR	5.79E-07	NA	NA	NA	1.86E-07	NA	**7.65E-07**
HI	1.86E-03	3.53E-05	1.65E-03	6.84E-04	2.52E-03	7.76E-04	**7.53E-03**

Primary Input Parameters		Site-Specific Evaluation	Basis for Site-Specific Parameter
C_{sg}	Soil gas concentrations**	95% UCL approximation	-
θ_t	Soil total porosity	Sandy Loam default	-
θ_w	Soil volumetric water content	Sandy Loam default	-
θ_a	Soil volumetric air content	Sandy Loam default	-
ρ_s	Soil bulk density	Sandy Loam default	-
θ_{tcap}	Capillary zone total porosity	Sandy Loam default	-
θ_{wcap}	Capillary zone volumetric water content	Sandy Loam default	-
θ_{acap}	Capillary zone volumetric air content	Sandy Loam default	Calculate from θ_{wcap}
L_{cap}	Thickness of the capillary fringe	Sandy Loam default	-
k	Soil permeability	Sandy Loam default	-
f_{oc}	Soil fraction organic carbon	Sandy Loam default	-
° T	Soil temperature	Default	-
ΔP	Indoor – outdoor pressure differential#	40 g/cm-s2	USEPA, 2002
η	Crack-to-total area ratio#	0.005	Johnson, 2002
E_b	Indoor air exchange rate - commercial	1.0 / hour	DTSC (2005)
L_{crack}	Foundation slab thickness	Default	-
L_b, W_b, H_b	Building dimensions#	Site-specific	-
L_f	Foundation depth below grade – building with no basement	15 cm	USEPA, 2002
L_t	Distance from foundation to source	5 feet	-

SG-SCREEN
PA Version 2.0; 04/

Reset to Defaults

DTSC
Vapor Intrusion Guidance
Interim Final 12/04
(last modified 1/21/05)

ENTER Chemical CAS No. (numbers only, no dashes)	Soil Gas Concentration Data: ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
71432	2.16E+02			Benzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	152.4	24	SIL		

MORE ↓

ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
SIL	1.49	0.439	0.18	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (°C)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (°K)	Critical temperature, T_C (°K)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
8.80E-02	9.80E-06	5.54E-03	25	7.342	353.24	562.16	2.9E-05	3.0E-02	78.11

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
137.4	0.259	0.307	2.89E-09	0.798	2.30E-09	4,000	2.16E+02	6.78E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	5.00E-03	15	7,977	5.29E-03	2.17E-01	1.80E-04	5.08E-03	137.4

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(P_e')$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	2.16E+02	1.25	8.33E+01	5.08E-03	5.00E+03	1.77E+14	3.78E-04	8.16E-02

Unit risk factor, URF ($\mu g/m^3$)$^{-1}$	Reference conc., RfC (mg/m^3)
2.9E-05	3.0E-02

END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
5.8E-07	1.9E-03

MESSAGE SUMMARY BELOW:

END

DATA E . SHEET

SG-SCREEN
PA Version 2.0; 04/

Reset to Defaults

DTSC
Vapor Intrusion Guidance
Interim Final 12/04
(last modified 1/21/05)

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
108883	9.07E+02			Toluene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	152.4	24	SIL		

MORE ↓

ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
SIL	1.49	0.439	0.18	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (°C)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (°K)	Critical temperature, T_C (°K)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
8.70E-02	8.60E-06	6.62E-03	25	7,930	383.78	591.79	0.0E+00	3.0E-01	92.14

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{ra} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
137.4	0.259	0.307	2.89E-09	0.798	2.30E-09	4,000	9.07E+02	6.78E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} ($atm\text{-}m^3/mol$)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	5.00E-03	15	9,001	6.29E-03	2.58E-01	1.80E-04	5.02E-03	137.4

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(P_e')$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	9.07E+02	1.25	8.33E+01	5.02E-03	5.00E+03	2.58E+14	3.75E-04	3.40E-01

Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	3.0E-01

END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	7.8E-04

MESSAGE SUMMARY BELOW:

END

DATA E / SHEET

SG-SCREEN
PA Version 2.0; 04/

Reset to Defaults

DTSC
Vapor Intrusion Guidance
Interim Final 12/04
(last modified 1/21/05)

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
100414	1.53E+02			Ethylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	152.4	24	SIL		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
SIL	1.49	0.439	0.18	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (°C)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (°K)	Critical temperature, T_C (°K)	Unit risk factor, URF ($(\mu g/m^3)^{-1}$)	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.50E-02	7.80E-06	7.86E-03	25	8,501	409.34	617.20	0.0E+00	1.0E+00	106.17

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
137.4	0.259	0.307	2.89E-09	0.798	2.30E-09	4,000	1.53E+02	6.78E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	5.00E-03	15	9,994	7.43E-03	3.05E-01	1.80E-04	4.33E-03	137.4

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(P_e')$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	1.53E+02	1.25	8.33E+01	4.33E-03	5.00E+03	5.22E+16	3.37E-04	5.15E-02

Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	1.0E+00

END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	3.5E-05

MESSAGE SUMMARY BELOW:

END

DATA L .Y SHEET

SG-SCREEN
PA Version 2.0; 04/

Reset to Defaults

DTSC
Vapor Intrusion Guidance
Interim Final 12/04
(last modified 1/21/05)

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
106423	7.02E+02			p-Xylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	152.4	24	SIL		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
SIL	1.49	0.439	0.18	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (°C)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (°K)	Critical temperature, T_C (°K)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.69E-02	8.44E-06	7.64E-03	25	8.525	411.52	616.20	0.0E+00	1.0E-01	106.17

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{ra} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
137.4	0.259	0.307	2.89E-09	0.798	2.30E-09	4,000	7.02E+02	6.78E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	5.00E-03	15	10,083	7.22E-03	2.96E-01	1.80E-04	4.44E-03	137.4

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(P_e')$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	7.02E+02	1.25	8.33E+01	4.44E-03	5.00E+03	2.01E+16	3.44E-04	2.41E-01

Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	1.0E-01

END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	1.7E-03

MESSAGE SUMMARY BELOW:

END

SG-SCREEN
PA Version 2.0; 04/

Reset to Defaults

DTSC
Vapor Intrusion Guidance
Interim Final 12/04
(last modified 1/21/05)

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
95476	2.66E+02			o-Xylene

MORE

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	152.4	24	SIL		

MORE

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
SIL	1.49	0.439	0.18	5

MORE

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm \cdot m^3/mol$)	Henry's law constant reference temperature, T_R (°C)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (°K)	Critical temperature, T_C (°K)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
8.70E-02	1.00E-05	5.18E-03	25	8,661	417.60	630.30	0.0E+00	1.0E-01	106.17

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{ra} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
137.4	0.259	0.307	2.89E-09	0.798	2.30E-09	4,000	2.66E+02	6.78E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	5.00E-03	15	10,245	4.88E-03	2.00E-01	1.80E-04	5.02E-03	137.4

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(P_e')$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	2.66E+02	1.25	8.33E+01	5.02E-03	5.00E+03	2.57E+14	3.75E-04	9.99E-02

Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	1.0E-01

END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	6.8E-04

MESSAGE SUMMARY BELOW:

END

DATA L . SHEET

SG-SCREEN
PA Version 2.0; 04/

Reset to Defaults

DTSC
Vapor Intrusion Guidance
Interim Final 12/04
(last modified 1/21/05)

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
127184	3.94E+02			Tetrachloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	152.4	24	SIL		

MORE ↓

ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
SIL	1.49	0.439	0.18	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (°C)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (°K)	Critical temperature, T_C (°K)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.20E-02	8.20E-06	1.84E-02	25	8,288	394.40	620.20	5.9E-06	3.5E-02	165.83

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{ra} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
137.4	0.259	0.307	2.89E-09	0.798	2.30E-09	4,000	3.94E+02	6.78E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	5.00E-03	15	9,410	1.74E-02	7.14E-01	1.80E-04	4.16E-03	137.4

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(P_e^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	3.94E+02	1.25	8.33E+01	4.16E-03	5.00E+03	2.60E+17	3.27E-04	1.29E-01

Unit risk factor, URF ($\mu g/m^3$)$^{-1}$	Reference conc., RfC (mg/m^3)
5.9E-06	3.5E-02

END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
1.9E-07	2.5E-03

MESSAGE SUMMARY BELOW:

END

APPENDIX C

BORING LOGS

Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-1

CLIENT Richards Watson & Gershon
PROJECT NAME
PROJECT NUMBER 100148002
PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DATE STARTED 1/15/09 **COMPLETED** 1/15/09 **GROUND ELEVATION**

DRILLING CONTRACTOR **DRILLING METHOD** Hand Auger

LOGGED BY CCL **CHECKED BY** PAR **NOTES**

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
0				SM		(SM) Dark yellowish brown (10YR 4/2), moist, silty fine SAND; no petroleum hydrocarbon odor or staining noted in cuttings or sample.
5	AB-1-5		<1			5.0 Backfilled with native soil. Bottom of borehole at 5.0 feet.

GENERAL BH / TP / WELL - GINT STD US.GDT - 1/23/09 12:41 - C:\PROGRAM FILES\GINT\PROJECTS\100148002 BL.GPJ

Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-2

CLIENT Richards Watson & Gershon
PROJECT NAME
PROJECT NUMBER 100148002
PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DATE STARTED 1/16/09 **COMPLETED** 1/16/09 **GROUND ELEVATION**

DRILLING CONTRACTOR Core Probe International **DRILLING METHOD** Direct Push

LOGGED BY CCL **CHECKED BY** PAR **NOTES**

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
0						0.3 Asphalt Approximately 2 inches. (SM) Moderate olive brown (5Y 4/4), moist, silty fine SAND.
				SM		Becomes olive gray (5Y 3/2), moist, fine sandy silt at 2 feet.
			<1			4.5 (ML) Olive gray (5Y 3/2), moist, fine sandy SILT.
5						
10			<1	ML		
						Becomes clayey silt at 14 feet.
15	AB-2-15		<1			
						Becomes moderate yellowish brown (10YR 4/2) at 16 feet.
20			<1			20.0

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GENERAL BH / TP / WELL - GINT STD US.GDT - 1/23/09 12:41 - C:\PROGRAM FILES\GINT\PROJECTS\100148002 BL.GPJ

Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-2

CLIENT Richards Watson & Gershon

PROJECT NAME

PROJECT NUMBER 100148002

PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
						No odor or staining noted. Backfilled with granular bentonite on 1/16/09. Bottom of borehole at 20.0 feet.

Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-3

CLIENT Richards Watson & Gershon
PROJECT NAME
PROJECT NUMBER 100148002
PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DATE STARTED 1/16/09 **COMPLETED** 1/16/09 **GROUND ELEVATION**

DRILLING CONTRACTOR Core Probe International **DRILLING METHOD** Direct Push

LOGGED BY CCL **CHECKED BY** PAR **NOTES**

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
0						0.3 Asphalt Approximately 3 inches.
			<1	SM		(SM) Moderate olive brown (5Y 4/4), moist, silty medium SAND.
5			<1			
10			<1			
15	AB-3-15		<1			16.0
				ML		(ML) Dark yellowish brown (10YR 4/2) with orange mottling, moist, fine sandy SILT.
20			<1			20.0

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Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-3

CLIENT Richards Watson & Gershon

PROJECT NAME

PROJECT NUMBER 100148002

PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
						No odor or staining noted. Backfilled with granular bentonite on 1/16/09. Bottom of borehole at 20.0 feet.

GENERAL BH / TP / WELL - GINT STD US.GDT - 1/23/09 12:41 - C:\PROGRAM FILES\GINT\PROJECTS\100148002 BL.GPJ

Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-4

CLIENT Richards Watson & Gershon
PROJECT NAME
PROJECT NUMBER 100148002
PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DATE STARTED 1/16/09 **COMPLETED** 1/16/09 **GROUND ELEVATION**

DRILLING CONTRACTOR Core Probe International **DRILLING METHOD** Direct Push

LOGGED BY CCL **CHECKED BY** PAR **NOTES**

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
0						0.3 Concrete Approximately 4 inches. (ML) Olive gray (5Y 3/2), moist, fine sandy SILT.
			<1	ML		
5			<1			6.0
						(SM) Moderate olive brown (5Y 4/4), moist, silty fine SAND. Becomes grayish olive (10Y4/2) at 7 feet.
10	AB-4-10		<1			
				SM		
15			<1			
20			<1			20.0

GENERAL BH / TP / WELL - GINT STD US.GDT - 1/23/09 12:41 - C:\PROGRAM FILES\GINT\PROJECTS\100148002 BL.GPJ

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Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-4

CLIENT Richards Watson & Gershon **PROJECT NAME**

PROJECT NUMBER 100148002 **PROJECT LOCATION** 111 North Hudson Avenue, City of Industry, California

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
						No odor or staining noted. Backfilled with granular bentonite on 1/16/09. Bottom of borehole at 20.0 feet.

GENERAL BH / TP / WELL - GINT STD US.GDT - 1/23/09 12:42 - C:\PROGRAM FILES\GINT\PROJECTS\100148002 BL.GPJ

Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-5

CLIENT Richards Watson & Gershon
PROJECT NAME
PROJECT NUMBER 100148002
PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DATE STARTED 1/16/09 **COMPLETED** 1/16/09 **GROUND ELEVATION**

DRILLING CONTRACTOR Core Probe International **DRILLING METHOD** Direct Push

LOGGED BY CCL **CHECKED BY** PAR **NOTES**

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
			<1			0.3 Concrete Approximately 4 inches. (ML) Olive gray (5Y 3/2), moist, fine sandy SILT.
				ML		
5			<1			
						7.0 (SM) Moderate yellowish brown (10YR 5/4), moist, silty fine SAND.
10	AB-5-10		<1			
				SM		Becomes moderate olive brown (5Y 4/4) at 13 feet.
15			<1			
20			<1			20.0

GENERAL BH / TP / WELL - GINT STD US.GDT - 1/23/09 12:42 - C:\PROGRAM FILES\GINT\PROJECTS\100148002 BL.GPJ

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Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-5

CLIENT Richards Watson & Gershon

PROJECT NAME

PROJECT NUMBER 100148002

PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
						No odor or staining noted. Backfilled with granular bentonite on 1/16/09. Bottom of borehole at 20.0 feet.

Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-6

CLIENT Richards Watson & Gershon
PROJECT NAME
PROJECT NUMBER 100148002
PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DATE STARTED 1/16/09 **COMPLETED** 1/16/09 **GROUND ELEVATION**

DRILLING CONTRACTOR Core Probe International **DRILLING METHOD** Direct Push

LOGGED BY CCL **CHECKED BY** PAR **NOTES**

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
0						0.3 Concrete Approximately 4 inches.
			<1	ML		(ML) Olive gray (5Y 3/2), moist, fine sandy SILT.
5			<1			
						6.0 (SM) Yellowish gray (5Y 7/2), moist, silty fine SAND.
10	AB-6-10		<1	SM		
						Becomes dark ywllowish brown (10YR 4/2) with orange mottling at 13 feet.
15			<1			15.5 (ML) Dark yellowish brown (10YR 4/2), moist, clayey SILT.
				ML		17.0 (SM) Moderate olive brown (5Y 4/4), moist, silty fine SAND.
				SM		
20			<1			20.0

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Ardent Environmental Group, Inc.
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Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-6

CLIENT Richards Watson & Gershon

PROJECT NAME

PROJECT NUMBER 100148002

PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
						No odors or staining noted. Backfilled with granular bentonite on 1/16/09. Bottom of borehole at 20.0 feet.

GENERAL BH / TP / WELL - GINT STD US.GDT - 1/23/09 12:42 - C:\PROGRAM FILES\GINT\PROJECTS\100148002 BL.GPJ

Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-7

CLIENT Richards Watson & Gershon
PROJECT NAME
PROJECT NUMBER 100148002
PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DATE STARTED 1/16/09 **COMPLETED** 1/16/09 **GROUND ELEVATION**

DRILLING CONTRACTOR Core Probe International **DRILLING METHOD** Direct Push

LOGGED BY CCL **CHECKED BY** PAR **NOTES**

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
0						0.3 Concrete Approximately 4 inches.
			<1	ML		(ML) Olive gray (5y 3/2), moist, fine sandy SILT.
5			<1			
						6.0 (SM) Moderate olive brown (5Y 4/4), moist, silty fine SAND.
10	AB-7-10		<1	SM		Becomes yellowish gray (5Y 7/2) at 11 feet.
15			<1			Becomes moderate olive brown (5Y 4/4) at 15 feet.
20			<1			20.0

GENERAL BH / TP / WELL - GINT STD US.GDT - 1/23/09 12:42 - C:\PROGRAM FILES\GINT\PROJECTS\100148002 BL.GPJ

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Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-7

CLIENT Richards Watson & Gershon

PROJECT NAME

PROJECT NUMBER 100148002

PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
						No odors or staining. Backfilled with bentonite on 1/16/09. Bottom of borehole at 20.0 feet.

Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-8

CLIENT Richards Watson & Gershon
PROJECT NAME
PROJECT NUMBER 100148002
PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DATE STARTED 1/16/09 **COMPLETED** 1/16/09 **GROUND ELEVATION**

DRILLING CONTRACTOR Core Probe International **DRILLING METHOD** Direct Push

LOGGED BY CCL **CHECKED BY** PAR **NOTES**

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
			<1	ML		0.3 Concrete Approximately 4 inches. (ML) Olive gray (5Y 3/2), moist, fine sandy SILT.
5			<1			
						6.0 (SM) Yellowish gray (5Y 7/2), moist, silty fine SAND.
10	AB-8-10		2.2	SM		Becomes moderate olive brown (5Y 4/4) at 11 feet.
15			<1			
20			7.4			20.0

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Ardent Environmental Group, Inc.
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Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-8

CLIENT Richards Watson & Gershon

PROJECT NAME

PROJECT NUMBER 100148002

PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
						No odor or staining noted. Backfilled with granular bentonite on 1/16/09. Bottom of borehole at 20.0 feet.

Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-9

CLIENT Richards Watson & Gershon
PROJECT NAME
PROJECT NUMBER 100148002
PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DATE STARTED 1/16/09 **COMPLETED** 1/16/09 **GROUND ELEVATION**

DRILLING CONTRACTOR Core Probe International **DRILLING METHOD** Direct Push

LOGGED BY CCL **CHECKED BY** PAR **NOTES**

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
0						0.3 Concrete Approximately 4 inches.
			<1	ML		(ML) Olive gray (5Y 3/2), moist, fine sandy SILT.
5			35			5.5
				SM		(SM) Moderate yellowish brown (10YR 5/4), moist, silty fine SAND.
10	AB-9-10		142			
						Becomes yellowish gray at 11 feet.
15			425			16.0
				ML		(ML) Moderate olive brown (5Y 4/4), moist, clayey SILT.
20						

GENERAL BH / TP / WELL - GINT STD US.GDT - 1/23/09 12:42 - C:\PROGRAM FILES\GINT\PROJECTS\100148002 BL.GPJ

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Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-9

CLIENT Richards Watson & Gershon **PROJECT NAME**

PROJECT NUMBER 100148002 **PROJECT LOCATION** 111 North Hudson Avenue, City of Industry, California

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
20			225	ML		(ML) Moderate olive brown (5Y 4/4), moist, clayey SILT. *(continued)*
						21.0
				SM		(SM) Moderate olive brown (5Y 4/4) with orange mottling, moist, silty fine SAND with some coarse GRAVEL.
25	AB-9-25		852			
30			1.7			30.0
						Petroleum hydrocarbon odors were noted in samples collected from 15 feet to 25 feet. No staining was noted in the samples collected. Backfilled with granular bentonite on 1/16/09. Bottom of borehole at 30.0 feet.

GENERAL BH / TP / WELL - GINT STD US.GDT - 1/23/09 12:42 - C:\PROGRAM FILES\GINT\PROJECTS\100148002 BL.GPJ

Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-10

CLIENT Richards Watson & Gershon
PROJECT NAME
PROJECT NUMBER 100148002
PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DATE STARTED 1/16/09 **COMPLETED** 1/16/09 **GROUND ELEVATION**

DRILLING CONTRACTOR Core Probe International **DRILLING METHOD** Direct Push

LOGGED BY CCL **CHECKED BY** PAR **NOTES**

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
0						0.3 Concrete Approximately 2 inches. (ML) Olive gray (5Y 3/2), moist, fine sandy SILT.
				ML		
5	AB-10-5		<1			5.5 (SM) Moderate yellowish brown (10YR 5/4), moist, silty fine SAND with trace coarse GRAVEL.
				SM		
10			4			10.0 No odors or staining noted. Backfilled with granular bentonite on 1/16/09. Bottom of borehole at 10.0 feet.

GENERAL BH / TP / WELL - GINT STD US.GDT - 1/23/09 12:41 - C:\PROGRAM FILES\GINT\PROJECTS\100148002 BL.GPJ

Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-11

CLIENT Richards Watson & Gershon
PROJECT NAME
PROJECT NUMBER 100148002
PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DATE STARTED 1/16/09 **COMPLETED** 1/16/09 **GROUND ELEVATION**

DRILLING CONTRACTOR Core Probe International **DRILLING METHOD** Direct Push

LOGGED BY CCL **CHECKED BY** PAR **NOTES**

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
0						0.3 Concrete Approximately 4 inches.
				ML		(ML) Olive gray (5Y 3/2), moist, fine sandy SILT.
5	AB-11-5		86			5.5
				SM		(SM) Moderate yellowish brown (10YR 5/4), moist, silty fine SAND.
10			<1			10.0 No staining noted. Backfilled with granular bentonite on 1/16/09. Bottom of borehole at 10.0 feet.

GENERAL BH / TP / WELL - GINT STD US.GDT - 1/23/09 12:41 - C:\PROGRAM FILES\GINT\PROJECTS\100148002 BL.GPJ

Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-12

CLIENT Richards Watson & Gershon
PROJECT NAME
PROJECT NUMBER 100148002
PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DATE STARTED 1/16/09 **COMPLETED** 1/16/09 **GROUND ELEVATION**

DRILLING CONTRACTOR Core Probe International **DRILLING METHOD** Direct Push

LOGGED BY CCL **CHECKED BY** PAR **NOTES**

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
0						0.3 Concrete Approximately 4 inches. (ML) Olive gray (5Y 3/2), moist, fine sandy SILT.
				ML		
5	AB-12-5		15.8			5.5 (SM) Moderate yellowish brown (10YR 5/4), moist, silty fine SAND.
				SM		
10			1.2			10.0 No staining noted. Backfilled with granular bentonite on 1/16/09. Bottom of borehole at 10.0 feet.

GENERAL BH / TP / WELL - GINT STD US.GDT - 1/23/09 12:41 - C:\PROGRAM FILES\GINT\PROJECTS\100148002 BL.GPJ

Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-13

CLIENT Richards Watson & Gershon
PROJECT NAME
PROJECT NUMBER 100148002
PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DATE STARTED 1/16/09 **COMPLETED** 1/16/09 **GROUND ELEVATION**

DRILLING CONTRACTOR Core Probe International **DRILLING METHOD** Direct Push

LOGGED BY CCL **CHECKED BY** PAR **NOTES**

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
0						0.3 Concrete Approximately 4 inches.
				ML		(ML) Olive gray (5Y 3/2), moist, fine sandy SILT.
5	AB-13-5		3.2			
						6.0
				SM		(SM) Moderate yellowish brown (10YR 5/4), moist, silty fine SAND.
10			<1			10.0 No odors or staining noted. Backfilled with granular bentonite on 1/16/09. Bottom of borehole at 10.0 feet.

GENERAL BH / TP / WELL - GINT STD US.GDT - 1/23/09 12:41 - C:\PROGRAM FILES\GINT\PROJECTS\100148002 BL.GPJ

Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-14

CLIENT Richards Watson & Gershon
PROJECT NAME
PROJECT NUMBER 100148002
PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DATE STARTED 1/16/09 **COMPLETED** 1/16/09 **GROUND ELEVATION**

DRILLING CONTRACTOR Core Probe International **DRILLING METHOD** Direct Push

LOGGED BY CCL **CHECKED BY** PAR **NOTES**

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
0						0.3 Concrete Approximately 4 inches. (ML) Olive gray (5Y 3/2), moist, fine sandy SILT.
				ML		
5	AB-14-5		68			5.5 (SM) Moderate yellowish brown (10YR 5/4) with orange mottling, moist, silty fine SAND.
				SM		
10			<1			10.0 No staining noted. Backfilled with granular bentonite on 1/16/09. Bottom of borehole at 10.0 feet.

GENERAL BH / TP / WELL - GINT STD US.GDT - 1/23/09 12:41 - C:\PROGRAM FILES\GINT\PROJECTS\100148002 BL.GPJ

Ardent Environmental Group, Inc.
1141 Pomona Road
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER AB-15

CLIENT Richards Watson & Gershon
PROJECT NAME
PROJECT NUMBER 100148002
PROJECT LOCATION 111 North Hudson Avenue, City of Industry, California

DATE STARTED 1/16/09 **COMPLETED** 1/16/09 **GROUND ELEVATION**

DRILLING CONTRACTOR Core Probe International **DRILLING METHOD** Direct Push

LOGGED BY CCL **CHECKED BY** PAR **NOTES**

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ORGANIC VAPORS (ppm)	CLASSIFICATION (U.S.C.S.)	GRAPHIC LOG	MATERIAL DESCRIPTION
0						0.3 Concrete Approximately 4 inches.
				ML		(ML) Olive gray (5Y 3/2), moist, fine sandy SILT.
5	AB-15-5		1.4			
				SM		6.0 (SM) Moderate yellowish brown (10YR 5/4), moist, silty fine SAND.
10			<1			10.0 No staining or odors noted. Backfilled with granular bentonite on 1/16/09. Bottom of borehole at 10.0 feet.

GENERAL BH / TP ... LL - GINT STD US.GDT - 1/23/09 12:41 - C:\PROGRAM FILES\GINT\PROJECTS\100148002 BL.GPJ