



Genesis Project, Inc.

ENVIRONMENTAL SERVICES

December 4, 2013

Mr. Derrick Williams, Program Manager
Response & Remediation Program
Land Protection Branch
Suite 1054, East Tower
2 Martin Luther King, Jr. Drive SE
Atlanta, Georgia 30334

RE: Voluntary Remediation Program – Compliance Status Report
Former Vogue Cleaners
Tax Parcel ID *Map J 10, Parcel 079/087*
Columbia Square Shopping Center
Martinez, Georgia
HSI Site #10394

Dear Mr. Williams,

Genesis Project, Inc. is pleased to submit this Voluntary Remediation Program – Compliance Status Report (VRP-CSR) for the Former Vogue Cleaners located on Tax Parcel ID *Map J 10, Parcel 079/087 (Property)* within the Columbia Square Shopping Center in Martinez, Georgia. This VRP-CSR summarizes the existing soil, groundwater and vapor conditions on the subject Property and is submitted in lieu of the second 2013 Semi-Annual Progress Report and completes the Voluntary Remediation Program corrective action process per the application approved on March 21, 2011. Based on the findings to date:

1. The Property is in compliance with VRP Clean-up Criteria for soil;
2. Groundwater conditions have been delineated and fate and transport modeling of impacted groundwater illustrates no human or environmental receptors;
3. Site specific data demonstrates that vapor intrusion is not an exposure pathway with unacceptable risk to human health; and
4. No non-qualifying property is affected by the release from the Property.

On behalf of The AXA Equitable Life Insurance Company, Genesis Project respectfully requests the EPD delist this parcel from the Hazardous Site Inventory.

If you have any questions regarding this submittal, please do not hesitate to call.

Sincerely,
Genesis Project, Inc.

Mark D. Mitchell, P.G.
Principal

Cc: Mr. Robert Poole, Morgan Stanley
Mr. Doug Cloud, Kazmerek Mowrey Cloud Laseter, LLP

**Voluntary Compliance Status Report
Former Vogue Cleaners
Columbia Square Shopping Center
Martinez, Columbia County, Georgia
HSI No. 10394**

Submitted to:

Georgia Environmental Protection Division
Hazardous Sites Response Program
2 Martin Luther King Jr. Drive, Suite 1462
Atlanta, Georgia 30334

Prepared for:

The AXA Equitable Life Insurance Company

c/o Morgan Stanley Real Estate Advisor, Inc.
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Prepared by

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Genesis Project, Inc.

EXECUTIVE SUMMARY

On behalf of The AXA Equitable Life Insurance Company, Genesis Project, Inc. has prepared this Voluntary Remediation Program - Compliance Status Report (VRP-CSR) for the former Vogue Dry Cleaning operation located within the Columbia Square Shopping Center – Phase II (Property). The Property is located at 4018 Washington Road, in Martinez, Columbia County, Georgia as described in Appendix A (the "Property") and within land parcel number 079/087.

The property was placed on the State of Georgia, Hazardous Sites Inventory due to a release of tetrachloroethene to the environment. Over a period of 13 years, extensive assessment and remediation activities have been conducted at the Property to mitigate any risk to human health and the environment. These actions have included soil excavation, chemical treatment, dual-phase extraction events, air sparging of groundwater and soil vapor extraction within the vadose zone, which has resulted in a dramatic reduction of tetrachloroethene and associated chemicals at the Property.

The purpose of this report is to satisfy the requirements of the Georgia Voluntary Remediation Program (VRP). The objectives and findings of this VRP-CSR are summarized below:


- ◆ Investigation and remediation activities, including but not limited to the development of exposure scenarios and site-specific cleanup standards, were developed based on the optional standards and policies set forth in section 12-8-108 of the State of Georgia Voluntary Remediation Program Act.
- ◆ All soil sample analysis results collected from the Property are less than the calculated Voluntary Remediation Program (VRP) Cleanup Standards for on-site soil.
- ◆ Although exposure to groundwater has been classified as an incomplete pathway on the Property, groundwater-sampling results from the August 2013 groundwater-sampling event meet the Risk Reduction Criteria calculated for on-site groundwater in the source area and no impact is present at the point of demonstration.
- ◆ A Uniform Environmental Covenant is proposed for this parcel to confirm that future site use continue to eliminate any potential exposure risk to human health and the environment.

Based on the information provided, Genesis Project requests approval of the VRP-CSR, and proceed with activities to complete de-listing of the Property from the Hazardous Site Inventory.

CERTIFICATION OF COMPLIANCE

I certify under penalty of law that this report and all attachments were prepared under my direction in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Based on my review of the findings of this report, I have determined that former Vogue Cleaners previously located in the Columbia Square Shopping Center – Phase II (Tax Parcel ID *Map J 10, Parcel 079/087*) is in compliance with the Voluntary Remediation Program (VRP) cleanup standards developed for soil and groundwater as set forth in section 12-8-108 of the State of Georgia, Voluntary Remediation Program Act.

 12-04-2013

Signature

Date

The AXA Equitable Life Insurance Company
c/o Mr. Robert Poole
Morgan Stanley Real Estate Advisor, Inc.
3424 Peachtree Road
Suite 800 Floor 09
Atlanta GA 30326-1118

Genesis Project, Inc.

Registered Professional Geologist Certification

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport.

I further certify that this Voluntary Remediation Program - Compliance Status Report for Hazardous Site Inventory Site No. 10394 was prepared by me or by a subordinate working under my direction.

Name: Mark D. Mitchell, P. G.

Signature: 

Date: DEC. 4, 2013



Georgia Stamp or Seal

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1 INTRODUCTION

On behalf of AXA Equitable Life Insurance Company, Genesis Project, Inc. has prepared this Voluntary Remediation Program - Compliance Status Report (VRP-CSR) for the Property located at 4018 Washington Road, Martinez, Columbia County, Georgia. The purpose of this report is to satisfy the criteria of the State of Georgia, Voluntary Remediation Program Act and obtain a delisting of this Property from the State of Georgia Hazardous Sites Inventory under the Hazardous Sites Response Act. This VRP-CSR includes:

- A general description of site background and site characteristics;
- Presentation of the Conceptual Site Model and Exposure Pathways Analysis;
- A summary of the site soil and groundwater investigations; and
- Applicable VRP Cleanup Standard calculations.

Each of these investigation and remediation activities, including but not limited to the development of exposure scenarios and site-specific cleanup standards, were developed based on the optional standards and policies set forth in section 12-8-108 of the State of Georgia Voluntary Remediation Program Act.

2 SITE BACKGROUND

The former Vogue Cleaners facility is located in the Columbia Square Shopping Center – Phase II in Martinez, Columbia County, Georgia (Figure 1). The site is currently listed on the Georgia Hazardous Site Inventory (HSI No.10394), pursuant to the Hazardous Site Response Act (HSRA) program administered by the Georgia Environmental Protection Division (GAEPD), due to a release of tetrachloroethene (PCE) along with its associated degradation products (constituents of concern [COCs]). Several investigations were conducted and a HSRA Compliance Status Report was submitted to GAEPD in April 1999.

The AXA Equitable Life Insurance Company (formerly known as The Equitable Life Assurance Society of the United States) sold the site on September 14, 2001, retaining the right of access and with express permission for performance of corrective action.

In February 2007, Genesis Project Inc. submitted to GAEPD a Corrective Action Plan Addendum, which presented the results of a pilot test and recommended the use of ART technology as an appropriate remedial alternative. The approved ART remediation technology was fully implemented in October 2007.

On March 21, 2011, the GAEPD approved an application for this Property to enter into the Voluntary Remediation Program (VRP). Upon acceptance into the program, additional investigation and remediation activities were conducted at the Property until it was determined that conditions met the exposure scenarios and site-specific cleanup standards developed for the Property.

2.1 Property Description

The Property is located at 4018 Washington Road, Martinez, Georgia, and consists of a single story building constructed with steel beams, brick and concrete block on a concrete slab. Comprised of a 4.14 acres land, the parcel is located within Tax Parcel *Map J 10, Parcel 079/087*. The building is subdivided into several spaces leased by a variety of businesses. Vogue Cleaners was formerly located near the north end of the building (Figure 2). The Plat Map and Warranty Deed are included in Appendix A.

The current tenant of the space occupied by the former Vogue Cleaners is Quest Church. The church uses the space on Sundays and periodically during the week for meetings and gathering areas.

2.2 Surrounding Land Use

The Property is located in a commercial area and the surrounding area is comprised of:

- To the North – Commercial businesses, including the Monterrey Mexican Restaurant and Washington Road;
- To the East Commercial businesses, including the Columbia Car Care Center (HSI No. 10394);
- To the South – Columbia Square Shopping Center (current tenants are Cici's Pizza, Hair Obsession Portman's Music and Kings Crown Barber);
- To the West – Gerald Jones Automobile Dealerships.

2.3 Site History of Land Use and Operations

Vogue Cleaners performed dry cleaning operations at the Property from 1976 until September 1996. The store continued to operate as a drop-off and pick-up location until

December 1997. The dry-cleaning equipment was removed from the building sometime after June of 1997.

Since that time, a variety of commercial tenants have occupied the former Vogue Cleaners space. At this time, the Quest Church leases the space.

2.4 Source of Contamination

The source of the soil and groundwater contamination originated from the operation of Vogue Cleaners, a dry-cleaning facility formerly located at Columbia Square Shopping Center Phase II (Figure 2). The release originated from fluids (tetrachloroethene [PCE]) contained within storage containers and equipment used within the premises of the former Vogue Cleaners dry-cleaning facility. This conceptual site model is based on the results of shallow soil sampling, which confirms that the source of the impacts occurred immediately beneath the dry-cleaning equipment at the former Vogue Cleaners. There is no data to suggest that disposal of the source materials occurred outside of the confines of the facility.

2.5 Historic Corrective Action

Remedial activities have been ongoing at this site since May 2000. These activities have included the implementation of soil remediation (excavation) as well as active soil and groundwater remediation, including the use of chemical injection as well as air sparge and soil vapor extraction (SVE) via the use of ART™ remedial technology. A summary of these activities is as follows:

- **2000:** Williams Environmental Services initiated soil removal activities for the Former Vogue Cleaners facility. A total of 183.8 tons of soil and concrete were removed from areas within and around the former Vogue Cleaners facility.

- **2002 - 2006:** Two (2) firms, Williams Environmental Services and URS Corporation conducted corrective action activities, which included chemical injection of hydrogen release compound (HRC™) into the subsurface. The activities included both a pilot test and implementation of full-scale injections.
- **2007 – 2012:** Genesis Project submitted a Corrective Action Plan Addendum for the implementation of ART™ Technology at the site. . After entering the Voluntary Remediation Program (VRP) in 2011, soil vapor sampling was conducted in the interior of the building, and a soil vapor extraction system was installed within the building at the end of 2011. The ART™ / SVE system operated at the site until August 2013.
- **2012-2013:** Genesis Project conducted interim corrective actions due to an apparent new release of PCE into an onsite monitor well. Corrective actions included two (2) enhanced fluid recovery events (EFR), two (2) chemical injections events and replacement of impacted wells.

Active corrective action activities have been terminated at the Property. On-going site activities include monitoring the video surveillance system on a regular basis to identify any unauthorized activities within the remediation enclosure and tampering with on-site monitor wells.

2.6 Future Property Use

The future use of the Property will continue to be commercial development. A Georgia Uniform Environmental Covenant is proposed to ensure that future site use is protective to human health and the environment.

3 SITE CHARACTERISTICS

3.1 Physical Setting

The site is located on the southern edge of the Washington Slope District of the Piedmont Physiographic Province (Hetrick, 1992). The Piedmont Physiographic Province is characterized by rolling to hilly geographic regions and broad, smooth uplands. The local topography is approximately 385 feet above mean sea level (MSL) and relatively flat.

3.2 Regional Geology

Geologic formations within the Southern Piedmont Province are composed primarily of igneous and metamorphic rocks consisting of granite, gneiss, and schist. According to the *Georgia Geological Survey Bulletin 96* (1984), the site is within the Washington Slope District. The Washington Slope District is bounded, on the south, by the Fall Line and the Coastal Plane. Boring logs recorded at the site described the surface soils as predominantly sandy clays to sandy clay loams.

3.3 Regional Hydrogeology

According to the *Groundwater Pollution Susceptibility Map of Georgia* (Georgia Geological Survey, 1992), the site lies in an area of lower susceptibility for the migration of pollutants to drinking water supplies and is not located in a significant ground water recharge area.

Groundwater in this area occupies joints, fractures, and other secondary openings in the bedrock formations. Water recharges the water table via infiltration of precipitation.

3.4 Surface Water

The property is located in a lower groundwater pollution susceptibility area and the nearest surface water body to the subject property is a tributary to Reed Creek, which is located approximately 1,200 feet west-northwest of the Property.

3.5 Public/Private Water Wells Survey

A Well and Water Resources Survey was conducted within a 3-mile radius of the Property (Appendix B). This survey included a search of groundwater resource databases from the GA EPD and the United States Geological Survey (USGS), a search from the GAEPD water supply database, as well as a drive-by search of the immediate surrounding area. The survey identified thirty (30) water wells within three (3) miles of the Property. One (1) private water supply well was identified within one (1) mile of the Property. However, no wells were identified within a 0.25-mile radius of the site. While these wells were found to exist within the search radius, site-specific and regional data indicate that the on-site dissolved substance and the water wells are not hydrogeologically connected. In addition, an interview was conducted with a representative of the Columbia County Water Authority confirming the subject Property is being supplied by county water. Furthermore, recent potentiometric surface data indicate that the on-site direction of groundwater flow is to the north-northeast, and a majority (29 of 30) of the wells were located to the south, southeast of the Property. Previous investigations conducted at the Property indicate a high water table that most likely discharges into the creek. The nearest surface water body to the Property is 1,200 feet northwest from the site. The locations of all identified water wells are depicted on Figure 1 in Appendix B, along with the documentation of this survey.

3.6 Site Geology

The site geology is consistent with the regional geologic framework. Each of the soil borings contained sandy clays and sandy clay loam in the shallow subsurface. Two soil types are located in the local area including the Bibb silt loam originating from alluvium and the Wagram loamy sand, originating from marine sediments. These two soil types illustrates that the site is located near the contact between the Piedmont Physiographic Province and the Coastal Plan. All available boring logs are provided in Appendix E, and geologic cross-sections are presented as Figures 3a and 3b.

3.7 Site Hydrogeology

The investigation of site hydrogeology consisted of site-specific observations and a review of local hydrogeological data and published regional data. The occurrence of groundwater was determined by a review of historical soil boring logs as well as depth-to-water measurements recorded from all accessible, on-site temporary monitoring wells. The unconfined water-bearing zone at the site is approximately 6 feet below ground surface.

The observed on-site lithology as well as historical geological information suggests that the aquifers in this area are composed of unconsolidated sediments in the unconfined aquifer overlying a network of fractures and geologic discontinuities in non-porous metamorphic and igneous rock.

3.7.1 In-Situ Permeability Testing

In-situ-permeability testing was evaluated to calculate a hydraulic conductivity at the site. Hydraulic conductivity (K) was estimated using Bower and Rice methods from slug tests (rising head) in monitor wells MW-22 and POD-1 in September 2011. Estimated hydraulic conductivity values for these monitor wells are:

	$K_{(cm/sec)}$
MW-22 ¹	6.9×10^{-3}
MW-22 ²	7.1×10^{-3}
POD-1	2.4×10^{-2}

These values are representative of published K values for the Sandy Clays, Sandy Loams and Sandy Clay Loams identified in the study area and consistent with hydraulic conductivity values presented in the April 1999 Compliance Status Report prepared by Williams Environmental. The average hydraulic gradient was calculated to be approximately 0.0034 for the Property via three-point problem (MW-2R, MW-5, MW-7). Utilizing the geometric mean for the K value (1.27×10^{-2} cm/sec) and a 0.23 effective porosity for Sandy Loams, groundwater flow velocities were conservatively calculated at 194.2 ft./year for the site. Slug Test analysis results are included in Appendix C.

4 CONCEPTUAL SITE MODEL

The primary objective of the Conceptual Site Model (CSM) is to identify complete and incomplete exposure pathways. A CSM describes the criteria necessary to have a completed exposure pathway including 1) contaminant sources, 2) release and transport mechanisms, 3) receiving media, 4) exposure media, 5) exposure routes and 6) potentially exposed populations. The three-dimensional CSM is presented in Figures 4a and 4b. Each component of the CSM is presented in detail in the following sections.

Based on the current and potential land/water use for the site, the primary exposure media of potential concern are:

- Soil;
- Groundwater;
- Soil Vapor originating from impacted soil and groundwater.

A site-specific exposure pathway will be considered complete “if there are no discontinuities on or impediments to constituent of concern movement, including without limitation controls, from the source of the release to the receptor”. Otherwise, the exposure pathway will be considered incomplete and no further evaluation is necessary (Section 12-8-108[2] VRP Act).

4.1 Soil Exposure Pathway

The potential for direct exposure of impacted soil at the Site is considered negligible since all impacted soils is covered by asphalt pavement or the commercial building.

The direct exposure to impacted subsurface soil would be possible in the case of future subsurface disturbance activities. As a result, the potential exposure scenario for this Property includes Construction and Utility Workers.

The potential exposure pathways for these individuals would include:

- Inhalation;
- Ingestion; and
- Dermal contact

Since there were no identified impediments or discontinuities to prevent exposure of impacted soils to future construction/utility workers, VRP Cleanup Standard calculations were prepared for this potentially completed pathway and are presented in Section 6.0.

4.2 Groundwater Exposure Pathway

Two (2) potential groundwater exposure pathways were evaluated and consisted of:

- 1) Direct exposure of impacted groundwater via discharge to a surface water body or drinking water well; and
- 2) Direct exposure to groundwater on-site.

The Property is located in an area of commercial development with no drinking water wells located within 1,000 feet or likely to be so in the foreseeable future. In addition, there are no surface water bodies within 1,000 feet of the Property.

The potential for direct exposure on-site groundwater is considered an incomplete pathway since asphalt pavement or the commercial building covers all impacted groundwater. In addition, the depth of groundwater is > 5 feet below grade, which is deeper than utility structures present in the local area.

As a result, the groundwater exposure pathway will only be considered a potentially complete pathway at the downgradient property boundary. This compliance point consists of the “point of

demonstration” well (POD-1), which is located within 6 feet of the downgradient property boundary (Figure 2).

4.2.1 Groundwater Fate and Transport Modeling

Genesis Project utilized BIOCHLOR in order to simulate contaminant fate and transport at the former Vogue Cleaners located in Martinez, Georgia. The objective of the modeling process was to determine the theoretical maximum concentration of tetrachloroethene (PCE) in the former source area, identified as monitor well MW-2R, which should not impact groundwater at the point of demonstration (POD) above the acceptable risk criteria for off-site groundwater. The point of demonstration consists of monitor well POD-1, which is located at the downgradient property boundary of the Columbia Square Shopping Center and the Monterrey Mexican Restaurant.

Three Constituents of Concern (COCs) were considered for this modeling effort and included:

- Tetrachloroethene;
- Trichloroethene; and
- Cis-1,2 dichloroethene.

The acceptable risk criteria for off-site groundwater (section 6.0), utilized in this model for the point of demonstration, are as follows:

Compound	Risk Criteria at Point of Demonstration
Tetrachloroethene	19 ug/L
Trichloroethene	5 ug/L
Cis-1,2 Dichloroethene	70 ug/L

The modeling process included calibration of the model to pre-remedial site conditions, followed by predictive modeling to determine the maximum source concentration that would not impact the point of demonstration well POD-1 above the allowable risk exposure criteria.

Based on that effort, site-specific Source Area Concentration Criteria, for each COC, were developed to predict the source concentration what would not impact groundwater above the acceptable risk criteria for off-site groundwater at the point of demonstration. The calculated Source Area Concentration Criteria are as follows:

Compound	Source Area Concentration Criteria
Tetrachloroethene	600 ug/L
Trichloroethene	150 ug/L
Cis-1,2 dichloroethene	2,000 ug/L

These Source Area Concentration Criteria are much greater than the highest concentrations currently present in the source area for tetrachloroethene (25 ug/L), Trichloroethene (16 ug/L) or cis-1,2 dichloroethene (5 ug/L). As a result, the concentration of COCs in the source area could not impact the point of demonstration (POD-1) above the acceptable risk criteria for off-site groundwater; therefore, on-site groundwater exposure is an incomplete pathway. A detailed description of this modeling effort is presented in Appendix C.

4.3 Surface Water Exposure Pathway

The nearest downgradient surface water body is approximately 1,200 feet west-northwest of the Property. The groundwater fate and transport modeling confirmed that COCs above the applicable acceptable risk criteria for off-site groundwater could not impact a hypothetical “point of exposure” 1,000 feet downgradient of the Property. Therefore, exposure to impacted groundwater at the nearest downgradient surface water body is an incomplete pathway.

4.4 Vapor Intrusion Exposure Pathway

The potential for exposure of impacted soil vapor at the Property is limited to the interior of the commercial building at Columbia Square Shopping Center. The potential for direct exposure to soil vapors (originating from impacted soil and/or groundwater) in the interior of the commercial building include:

- Commercial Workers and Visitors; and
- Utility/Construction Workers.

The potential exposure pathway is inhalation.

Based on this potential exposure pathway, a vapor intrusion assessment and associated modeling was completed to determine if this potential exposure pathway is complete.

4.4.1 Vapor Intrusion Assessment

The United States Environmental Protection Agency (USEPA) Vapor Intrusion Screening Level (VISL) Calculator (Ver.3.0, November 2012 RSLs), was used to develop the screening criteria for the vapor intrusion pathway at this site. The criteria for the screening included:

Parameter	Value	Description
Exposure Scenario	Commercial	Commercial Workers and Visitors
Target Risk for Carcinogens	1.0×10^{-5}	Established Cancer Risk Criteria
Hazard Quotient	1	Established Non-Cancer Hazard Quotient
GW Temperature	25°	Average Annual Groundwater Temperature

Based on these criteria, target indoor air concentrations were developed for COCs present at the site. From these baseline exposure criteria, the VISL calculator computes target concentrations for both sub-slab and exterior gas as well as target groundwater concentrations. However, these target concentrations

are calculated from very conservative attenuation factors for the sub-slab gas (0.1) and groundwater (0.001). Rather than utilizing unrealistic default attenuation factors, a site investigation was conducted to calculate an empirical attenuation factor for the building.

All soil gas samples were collected according to the procedures presented in the Appendix D (Field Methods).

4.4.2 Vapor Intrusion Attenuation Factor Calculation

The calculation for the development of a site-specific attenuation factor is as follows:

$$AF_{VI} = \frac{C_{IA-VI}}{C_{SV}}$$

Where:

AF_{VI} – Attenuation Factor (vapor intrusion)

C_{IA-VI} – Concentration in Indoor Air

C_{SV} – Concentration in sub slab soil vapor

In order to calculate an empirical site-specific attenuation factor, Genesis Project collected paired sub-slab soil gas and indoor air samples utilizing the conservative tracer radon. Radon was selected as the tracer since:

- Radon is naturally occurring in the vadose zone;
- Radon is not found in building materials nor can it be present due to any indoor sources;
- Radon is a conservative tracer because it is an inert noble gas and would not be expected to attenuate due to chemical or physical reactions with vadose zone soils or building materials;
- Radon is easily sampled and analyzed.

The basis for this investigation was taken from the technical paper “Use of Radon to Determine Attenuation between Subslab and Indoor Air for Vapor Intrusion Evaluation at Military Housing Units at Fort Wainwright, Alaska (King et al, 2010).

Three radon samples were collected from three locations in random locations within the former Vogue Cleaners. The results from each pair and associated attenuation factors are as follows:

Sample Designation	Sub-slab (SG) (pCi/L)	Indoor Air (IA) (pCi/L)	Attenuation Factor
SV-1	293	0.91	0.0031
SV-3	--\1	0.81	--
SV-5	258	0.71	0.0028
Average	275.5	0.81	0.003

\1 Sample could not be analyzed

The laboratory results for this investigation are presented in Appendix F.

Although this attenuation factor is significantly lower than the default values presented in the 2002 USEPA OSWER Draft Guidance Document (0.1) or the proposed USEPA Final Guidance document (0.03), these values are within the range of values presented in the USEPA’s Vapor Intrusion Database (USEPA 530-R-10-002).

Based on this data, the attenuation factor utilized to determine site-specific target sub-slab concentrations at this site is 0.0031. For the COCs at this site, these target concentrations are as follows:

Compound	Target Indoor Air Concentration^{VI} (ug/m³)	Attenuation Factor	Target Sub-slab Gas Concentration (ug/m³)
Tetrachloroethene	180	0.0031	58,065
Trichloroethene	8.8	0.0031	2,839
Cis-1,2 dichloroethene	NA	NA	NA

^{VI} EPA VISL Screening Criteria

These target sub-slab gas concentrations are considered conservative since they do not take into consideration commercial building air exchange rate, which would substantially increase these target levels for sub-slab soil.

5 EXTENT OF CONTAMINATION

In an effort to fulfill the requirements set forth by the VRP and prepare this CSR, all current and historical site assessments performed by the various environmental consulting firms were compiled, as necessary, to complete the characterization of soil and groundwater on the Property. A description of routine field methods is included in Appendix D.

5.1 Drilling and Soil Classification Procedures

Subsurface soils encountered during all investigations were classified using the Unified Soil Classification System and accepted standardized geologic practices for soil and rock descriptions. Soils encountered included sandy clays, sandy loams, and sandy clay loams.

5.2 Soil Investigation

Numerous soil investigations have been completed at the site over the last 13 years. The purpose of these investigations has been to delineate soil impacts to the approved delineation standards and determine whether soil impacts were present above the applicable VRP Clean-up Standards developed for the Property. The location of current and historical soil samples is depicted in Figure 5.

5.2.1 Vadose Zone Sampling

On May 2000, Williams Environmental Services initiated soil removal activities for the former Vogue Cleaners facility. Prior to soil excavation, the concrete foundation of the building was saw cut and removed. Soil was then removed within the vicinity of the former Vogue Cleaners facility and the excavation was extended to areas outside the building as designated by previously conducted sampling events. Soil excavation continued to depths ranging from 2 to 7

feet bgs until no visual or olfactory evidence of contamination was detected. Twelve (12) verification samples were collected during the soil excavation and confirmed the removal of potential source materials above delineation standards. A total of 183.8 tons of soil and concrete were removed from areas within and around the former Vogue Cleaners facility.

As a result, confirmation soil samples were collected during the implementation of the Preliminary Remediation Plan to validate that all soils are below the applicable VRP delineation standards and VRP Cleanup Standards developed for the site.

In October 2011, a total of five (5) discrete soil-boring locations were installed on-site to determine if soils had been fully delineated. Subsurface soil samples collected at each of these locations were from intervals ranging from (0-2') and (2-4') bgs. The soil samples were analyzed for total volatile organic compounds VOCs via Method 8260B. Analytical results verified that soils were not fully delineated to the west within the former Vogue Cleaners facility. Four (4) of the soil samples indicated concentrations exceeding the delineation standard for PCE of (0.5mg/kg). As discussed previously, Genesis Project completed additional corrective action within the building, via the addition of two (2) SVE wells, to address impacted soil.

Following the completion of corrective action, subsequent soil samples were collected within the interior of the former Vogue Cleaners to confirm delineation and soils were below applicable VRP Clean-up Standards. Three (3) soil locations were collected in May 2013, and are identified as SB-25, SB-26, and SB-27. All locations collected soil intervals ranging from (0-2) and (2-4') below ground surface. Soil samples indicated that all soils were below the delineation standard of (0.5 mg/kg). All delineation samples are depicted on Figure 5.

5.2.2 Soil Sample Laboratory Results

A summary of all recent and previously completed soil analytical results is provided in Table 1 and depicted in Figure 5. The laboratory analytical reports are presented in Appendix F.

The results of this extensive soil-sampling program have concluded that the site is defined to the appropriate delineation standards. As a result, there is no evidence of soil impacts in excess of delineation standards or above the applicable VRP Cleanup Standards at the Property.

5.3 Groundwater Investigation

The most recent groundwater-sampling event was completed on August 8-9, 2013 and August 23rd 2013. The second groundwater-monitoring event was completed for monitor wells MW-8R and MW-5 on August 23rd after redevelopment of these wells. The purpose of the investigation was to evaluate the current impacts to groundwater present at the Property.

5.3.1 Monitoring Wells

A total of thirty-one groundwater-monitoring wells were installed on and off-site during the history of site investigations completed on this Property. A majority of these wells have been properly abandoned, over time. As approved under the VRP application, monitor wells MW-1, MW-2R, MW-4, MW-5, MW-6, MW-7, MW-8R, MW-8D, MW-12D, MW-22 and POD-1 have been utilized in this investigation.

5.3.2 Water Level Measurements

Water level measurements were recorded from each of the designated monitor wells to calculate the gradient and groundwater flow direction across the Property. Based on survey results, groundwater flow direction is apparently to the north-northeast. The groundwater flow direction was determined based on updated survey data as well as the most recent groundwater level measurements. The hydrologic gradient was also calculated at this Property of 0.0034 via a three-point problem utilizing monitor wells MW-2R, MW-5 and MW-7. A summary of the

water level measurements from all accessible monitoring wells is provided in Table 2 and a potentiometric surface map is included in Figure 6.

5.3.3 Groundwater Sample Collection

Groundwater samples were collected utilizing both low-flow sampling techniques and traditional purging of 3-4 well volumes, prior to groundwater sample collection. In accordance with the US Environmental Protection Agency (US EPA) standard operating procedure (SOP) [*Low Stress (low-flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells*], water quality parameters such as pH, conductivity, temperature, and groundwater drawdown rate were evaluated during purging to ensure groundwater samples are representative of formational groundwater. Once the parameters were consistent for a minimum of three consecutive readings, the samples were collected within laboratory provided containers, placed in an ice-filled cooler, and submitted to Analytical Environmental Services (AES) for Total VOCs.

In addition, groundwater samples were collected from monitor wells MW-5 and MW-8R when it was determined that these wells needed to be redeveloped when it was suspected that the low-flow sampling procedures did not evacuate sufficient groundwater to collect a sample representative of formational groundwater. The samples were collected after purging each monitor well of 3-5 well volumes utilizing polyethylene bailers and placed into the appropriate sample containers for the analysis of Total VOCs via Method 8260B.

5.3.4 Groundwater Sample Laboratory Results

Groundwater analytical results revealed several constituents above laboratory reporting limits during the August 2013 sampling events. The constituents above laboratory limits are as follows:

- Cis-1,2-Dichloroethene;
- Tetrachloroethene; and
- Trichloroethene.

The results continued to confirm that impacts to groundwater have dropped substantially over the most recent period, especially in the source area. A summary of recent and historic groundwater analytical results are provided in Table 3 and Figures 7a and 7b. The laboratory analytical reports are presented in Appendix D.

5.4 Vapor Intrusion Investigation

Two sub-slab soil gas investigations have been completed at this Property. The purpose of these investigations was to determine if vapor intrusion is a completed pathway at this location. The initial investigation was completed in 2011 and the final investigation was completed in 2013.

5.4.1 Soil Gas Sampling

In 2011, an initial sub-slab soil gas survey was completed at the Property. The investigation included the installation of four (4) implants. Each implant was installed and sampled as discussed in the Field Protocols presented in Appendix D. The results of this investigation are presented on Table 4 and Figure 8a. Based on these results, additional corrective action was implemented within the interior of the building and included the installation of two (2) SVE wells. These SVE wells were incorporated into the existing remediation system and operated until July 2013.

In August 2013, a second sub-slab soil gas survey was completed at the Property. The objective of this investigation was to complete a survey of sub-slab soil gas concentrations and evaluate the effectiveness of the corrective action completed in this area. The investigation included the

installation of five (5) implants, with one (SV-3R) placed in the immediate vicinity of the highest level of impact at the Property. The results of this investigation are presented on Table 4 and Figure 8b.

5.4.2 Soil Gas Laboratory Results & Risk Calculations

The results of the sub-slab soil vapor survey confirmed that COCs are present in the sub-slab soil gas beneath the building. The results from both of the investigations also confirm that corrective action completed in the vadose zone underneath the building was successful in reducing COCs in the sub-slab soil gas.

The results from the 2013 investigation were utilized to complete risk calculations for sub-slab soil gas to evaluate whether the additional corrective action was necessary to eliminate the vapor intrusion exposure pathway. Using the risk criteria presented in section 4.4.1, the results from each sample location were input into the EPAs VISL spreadsheet (soil gas forward calculator) in order to calculate the risk criteria for each compound reported in the sub-slab soil gas (Appendix C). These results were placed in a spreadsheet to evaluate the cumulative risk associated with each of the COCs present in sub-slab soil gas samples. The two COCs present in sub-slab soil gas were PCE and TCE.

Several other compounds were reported in the laboratory results but are considered to represent laboratory artifacts since they have not been reported in soil or groundwater samples on the Property and are close to the method detection limit. Although these results are not considered representative of sub-slab soil gas, they were included in the cumulative risk calculations. In all cases, these compounds did not influence the cumulative risk calculations for the building.

In all sample locations, the calculated cumulative Cancer Risk for PCE and TCE were below the cancer risk criteria of 1.0×10^{-5} (Table 5). As a result, there is no cancer risk associated with the PCE and TCE present in sub-slab soil gas.

With the exception of soil gas sample SV-4R, the calculated cumulative Non-Cancer Hazard Quotient for COCs in each of the samples was also below the hazard Quotient of 1 (Table 5). In the case of SV-4R, this sample is located in the vicinity of the former dry cleaning equipment.

In order to determine if the sub-slab soil gas is a risk to indoor air, the results were evaluated on a surface-weighted average basis. Each of the samples were assigned space within the existing commercially delimited space and assigned a specific square footage of floor space (Figure 8b) as shown below:

Sample Designation	Square Footage	% Square Footage
SV-1R	2175	45%
SV-2R	1,223	25%
SV-3R/SV-5R	1,181	24%
SV-4R	312	6%

Since two (2) of the samples were collected in the same delimited space, the sample with the highest sub-slab soil gas concentration (SV-5R) was used in this evaluation. The calculated concentration of the COCs is presented on Table 5. Based on this evaluation, the non-cancer hazard quotient for the surface weighted average is below 1 and therefore not a risk to human health. It should be noted that this evaluation is considered to be a conservative assessment of the potential risks at the Property since the air exchange rate for the building was not considered in the calculated Indoor Air Concentration.

Based on this evaluation of sub-slab soil gas results and the associated potential risk of human exposure, it was determined that calculated indoor air concentrations of each of the COCs would not exceed the target indoor air concentration presented in the EPAs VISL Calculator.

6 VRP CLEAN-UP STANDARDS AND SITE COMPLIANCE

The Property is zoned as a “commercial” property. This property use will continue pursuant to the proposed Uniform Environmental Covenant. As a result, VRP Cleanup Standards were calculated based on this current and future use of the Property.

6.1 VRP Clean-up Standards for Soil

Based on the conceptual site model of this Property, the site-specific VRP Cleanup Standards for soil are based on construction worker exposure factors for subsurface soil (VRPA 12-8-108 [5][B]). As a result, the VRP Cleanup Standards were calculated for each of the COCs using RAGs equations 6 (carcinogenic) and 7 (non-carcinogenic) and are as follows:

Constituent of Concern	Calculated VRP Clean-up Standards
Tetrachloroethene	346 mg/kg
Trichloroethene	16.9 mg/kg
Cis 1,2 dichloroethene	1,550 mg/kg

The detailed calculations for these VRP Clean-up Standards are included in Appendix G.

These VRP Clean-up Standards are substantially higher than the concentrations currently present at the Property for Tetrachloroethene (0.430 mg/kg), Trichloroethene (0.060 mg/kg) or cis-1,2 dichloroethene (< 0.0036 mg/kg). As a result, the soil at the former Vogue Cleaners are in compliance with these VRP Cleanup Standards.

6.2 VRP Clean-up Standards for Groundwater

Although the groundwater exposure pathway is classified as an incomplete at the Property, acceptable risk criteria for off-site groundwater have been calculated for each of the COCs present on the Property. The point of compliance for groundwater is the point of demonstration

(POD-1), which is ~78 feet from source wells MW-2R and MW-8R. Under the VRP, the acceptable risk criteria for off-site groundwater at this point of compliance are as follows:

Constituent of Concern	Calculated VRP Clean-up Standards
Tetrachloroethene	19 ug/L
Trichloroethene	5 ug/L
Cis 1,2 dichloroethene	70 ug/L

A detailed presentation of these acceptable risk criteria for off-site groundwater are included in Appendix G.

Based on the incomplete exposure pathway to groundwater on the subject Property and the acceptable risk criteria for off-site groundwater at the point of demonstration, groundwater at the former Vogue Cleaners is in compliance with the VRP.

7 UNIFORM ENVIRONMENTAL COVENANT

A Uniform Environmental Covenant is proposed for this parcel. The covenant will include:

1. Restrictions on the use of groundwater; and
2. Limit property use to commercial uses only.

A copy of the proposed Uniform Environmental Covenant will be provided to EPD at a future date.

8 SITE CLOSURE

Upon EPDs concurrence that de-listing of the parcel (*ID Map J 10, Parcel 079/087*) from the HSI (HSI #10394) is appropriate, Genesis Project will implement closure activities at the site. Closure activities will include:

1. Decommissioning of the remediation system;
2. Abandonment of all on-site monitor wells and SVE wells; and
3. Removal of the video surveillance system.

A report will be submitted to EPD certifying that the system and all monitor/SVE wells have been properly abandoned. Upon approval of these closure activities, EPD will de-list parcel 079/087 from the HSI Site 10394.

9 PUBLIC NOTICE

As required by the Georgia Rules for the Voluntary Remediation Program, a Public Notice will be published in The Augusta Chronicle indicating that the public may submit comments to EPD on the VRP-CSR within thirty-(30) days of notification. A notice will also be submitted to Mr. Scott D. Johnson, Columbia County Administrator. In addition, an electronic copy of the VRP-CSR will be sent to the following current and adjacent property owners:

1. Columbia Square Investors
c/o Darren Meadows
Hull Barrett, PC
801 Broad Street
Augusta, GA 30901
2. Columbia Car Care Center
c/o Dr. Harindorjit Singh
3685 Wheeler Road
Suite 201
Augusta, GA 30909
3. Monterrey Restaurante Mexicano
4016 Washington Road
August, GA 30907

REFERENCES

- Georgia Department of Natural Resources, Environmental Protection Division (EPD), 1995a. *Guidance on Target Soil Concentrations for Type 1 and Type 3 Risk Reduction Standards*; dated March 9, 1995.
- Georgia Department of Natural Resources, Environmental Protection Division (EPD), 1985. *Hydrogeology of the Dublin and Midville Aquifer Systems of East Central Georgia*.
- Georgia Voluntary Remediation Program Act: OCGA 12-8-100
- Georgia Soil Survey, 2008: Columbia, McDuffie and Warren Counties, Georgia,
- Georgia Department of Natural Resources, Environmental Protection Division (EPD), 1995b. *Rules of EPD Chapter 391-3-19 Hazardous Site Response*; effective December 31, 1995.
- Georgia Geological Survey, 1992. *Groundwater Pollution Susceptibility Map of Georgia*.
- King, Shelton and Blei, 2010: *Use of Radon to Determine Attenuation between Subslab and Indoor Air for Vapor Intrusion Evaluation at Military Housing at Fort Wainwright, Alaska*
- United States Environmental Protection Agency, February 1993. *USEPA Contract Laboratory Program National Functional Guidelines For Organic Data Review*.
- United States Geological Survey, 2009. *Martinez, 7.5-Minute Topographic Quadrangle*.
- Williams Environmental Services, 2000: Report of Soil Removal Activities, Former Vogue Cleaners, Martinez, Georgia HSI No. 10394
- Williams Environmental Services, 4-1999: Compliance Status Report, Former Vogue Cleaners, Martinez, Georgia
- Williams Environmental Services, 10-1999: Compliance Status Report Addendum, Former Vogue Cleaners, Martinez, Georgia

TABLES

Table 1
Soil Analytica Results (mg/kg)
Columbia Square Shopping Center
Martinez, Georgia

Sample I.D.	Sample Depth (ft bls)	Sample Date			
			PCE	TCE	DCE
EA-1	2.5-3	Feb-00	0.061	0.064	NA
EA-3	2.5-3	Feb-00	<0.230	<0.230	NA
EA-4	2.5-3	Feb-00	<0.250	<0.250	NA
EA-5	2.5-3	Feb-00	0.430	<0.240	NA
EA-6	2.5-3	Feb-00	<0.240	<0.240	NA
ESB-1	4-5	May-00	0.043	<0.022	NA
ESB-4	4-5	May-00	0.038	<0.022	NA
ESB-8	4-5	May-00	<0.250	<0.250	NA
ESB-9	4-5	May-00	0.170	0.044	NA
ESB-10	4-5	May-00	0.029	0.008	NA
D-8\1	4-5	May-00	0.003	0.019	NA
E-10\1	4-5	May-00	0.017	0.031	NA
F-6\1	4-5	May-00	0.008	< 0.500	NA
SB-6	0-2'	Jul-11	0.044	< 0.0028	< 0.0028
SB-13W	0-2'	Jul-11	0.110	< 0.0033	< 0.0033
SB-15	0-2'	Jul-11	0.018	< 0.0033	< 0.0033
SB-17	0-2	Jul-11	0.019	< 0.0030	< 0.0030
SB-25	0-2'	May-13	< 0.30	< 0.0036	< 0.0036
SB-25	2-4'	May-13	< 0.0035	< 0.0035	< 0.0035
SB-26	0-2'	May-13	0.041	< 0.0035	< 0.0035
SB-26	2-4'	May-13	0.011	< 0.0027	< 0.0027
SB-27	0-2'	May-13	< 0.0031	< 0.0031	< 0.0031
SB-27	2-4'	May-13	0.025	< 0.0033	< 0.0033

I.D. Identification
 Ft bls feet below land surface
 VOCs Volatile Organic Compounds
 mg/kg milligrams per kilograms
 DCE dichloroethene
 PCE tetrachloroethene
 TCE trichloroethene
 <5.0 Below Laboratory Detection Limit
 NA Not Analyzed
 U = Sample below laboratory detection limits
 J = Estimated concentration, analyte below quantitation limits
 \1 = Data Presented in 11/14/2000 Williams Report but not on table or in analytical results
 NA = Not Analyzed
Bold values Above Delineation Standards

Table 2.
Summary of Groundwater Elevations
Vogue Cleaners
Martinez, Georgia

Sample ID	Sample Date	Top of Casing Elevation	Depth to Water (feet bls)	Corrected Groundwater Elevation
MW-1	09/20/06	363.61	5.40	358.21
	01/23/07		5.41	358.20
	06/27/07		NA	NA
	10/08/07		5.51	358.10
	01/14/08		5.57	358.04
	04/01/08		5.32	358.29
	07/22/08		NA	NA
	10/07/08		NA	NA
	01/28/09		NA	NA
	07/02/09		5.38	358.23
	01/12/10		NA	NA
	08/03/10		5.21	358.40
	01/19/11		NA	NA
	07/26/11		5.43	358.18
	02/22/12		5.54	358.07
	08/15/12		5.53	358.08
	02/26/13		5.49	358.12
	08/07/13	356.91	5.21	351.70
MW-2	09/20/06	363.54	5.61	357.93
	01/23/07		5.55	357.99
	06/27/07		5.56	357.98
	10/08/07		5.69	357.85
	01/14/08		5.71	357.83
	04/01/08		5.58	357.96
	07/22/08		5.60	357.94
	10/07/08		5.70	357.84
	01/28/09		5.62	357.92
	07/02/09		5.61	357.93
	01/12/10		5.52	358.02
	08/03/10		5.50	358.04
	01/19/11		5.66	357.88
	07/26/11		5.55	357.99
	02/22/12		5.71	357.83
	08/15/12		5.73	357.81
			ABANDONED	
MW-2R	02/26/12	363.50	5.67	357.83
	08/08/13	356.39	5.53	350.86
MW-3	01/27/09	362.47	4.31	358.16
	07/02/09		4.29	358.18
	01/12/10		NA	NA
	08/03/10		4.21	358.26
	02/22/12		ABANDONED	
MW-4	09/20/06	362.89	4.95	357.94
	01/23/07		4.80	358.09
	06/27/07		4.88	358.01
	10/08/07		4.96	357.93
	01/14/08		5.05	357.84
	04/01/08		4.91	357.98
	07/22/08		4.95	357.94
	10/07/08		5.09	357.80
	01/27/09		4.95	357.94
	07/02/09		4.96	357.93
	01/12/10		4.51	358.38
	08/03/10		4.87	358.02
	01/19/11		5.08	357.81
	07/26/11		4.99	357.90
	02/22/12		5.03	357.86
	08/15/12		5.04	357.85
	02/26/13		5.00	357.89
	08/07/13	355.74	4.90	350.84

Table 2.
Summary of Groundwater Elevations
Vogue Cleaners
Martinez, Georgia

Sample ID	Sample Date	Top of Casing Elevation	Depth to Water (feet bls)	Corrected Groundwater Elevation
MW-5	09/20/06	363.37	5.74	357.63
	01/23/07		5.70	357.67
	06/26/07		5.55	357.82
	10/09/07		5.81	357.56
	01/14/08		5.80	357.57
	04/01/08		5.75	357.62
	07/22/08		5.76	357.61
	10/07/08		5.83	357.54
	01/27/09		5.85	357.52
	07/02/09		5.75	357.62
	01/12/10		5.75	357.62
	08/03/10		5.75	357.62
	01/19/11		5.84	357.53
	07/26/11		5.78	357.59
	02/22/12		5.80	357.57
	08/15/12		5.82	357.55
	02/26/13		5.77	357.60
	08/07/13	356.26	5.71	350.55
MW-5D	09/20/06	365.66	7.65	358.01
	01/23/07		11.12	354.54
	06/26/07		6.72	358.94
	10/09/07		8.44	357.22
	01/14/08		7.19	358.47
	04/01/08		10.28	355.38
	07/22/08		8.42	357.24
	10/07/08		5.83	359.83
	01/27/09		6.52	359.14
	07/02/09		5.39	360.27
	01/12/10		4.39	361.27
	08/03/10		6.90	358.76
	01/19/11		7.79	357.87
	07/26/11		7.80	357.86
	02/22/12		NA	NA
	08/15/12		NA	NA
	02/26/13		NA	NA
	08/07/13		NA	NA
MW-6	09/20/06	363.71	6.01	357.70
	01/23/07		5.95	357.76
	06/26/07		6.00	357.71
	10/08/07		6.10	357.61
	01/14/08		6.06	357.65
	04/01/08		6.02	357.69
	07/22/08		6.08	357.63
	10/07/08		6.12	357.59
	01/27/09		6.03	357.68
	07/02/09		6.67	357.04
	01/12/10		5.99	357.72
	08/03/10		5.96	357.75
	01/19/11		6.09	357.62
	07/26/11		6.08	357.63
	02/22/12		6.08	357.63
	08/15/12		6.07	357.64
	02/26/13		6.00	357.71
	08/07/13	356.53	5.86	350.67

Table 2.
Summary of Groundwater Elevations
Vogue Cleaners
Martinez, Georgia

Sample ID	Sample Date	Top of Casing Elevation	Depth to Water (feet bls)	Corrected Groundwater Elevation
MW-7	09/20/06	364.43	5.11	359.32
	01/23/07		5.68	358.75
	06/26/07		5.68	358.75
	10/08/07		5.82	358.61
	01/14/08		5.81	358.62
	04/01/08		5.75	358.68
	07/22/08		5.76	358.67
	10/07/08		5.83	358.60
	01/27/09		5.73	358.70
	07/02/09		5.78	358.65
	01/12/10		5.70	358.73
	08/03/10		5.98	358.45
	01/19/11		5.80	358.63
	07/26/11		5.76	358.67
	02/22/12		5.79	358.64
	08/15/12		5.76	358.67
	02/26/13		5.72	358.71
	08/07/13	356.26	5.64	350.62
MW-8	09/20/06	364.01	6.21	357.80
	01/23/07		6.15	357.86
	06/27/07		6.21	357.80
	10/09/07		6.09	357.92
	01/14/08		6.32	357.69
	04/01/08		6.22	357.79
	07/22/08		6.23	357.78
	10/07/08		6.32	357.69
	01/28/09		6.22	357.79
	07/02/09		5.62	358.39
	01/12/10		6.15	357.86
	08/03/10		6.18	357.83
	01/19/11		6.27	357.74
	07/26/11		6.28	357.73
	02/22/12		6.33	357.68
	08/15/12		6.30	357.71
	08/30/12		5.76	358.25
	10/02/12		5.68	358.33
	10/30/12		NM	NM
			ABANDON	
MW-8R	02/26/13	363.1	6.52	356.58
	08/08/13	360.93	10.20	350.73
MW-8D	09/20/06	363.90	5.96	357.94
	01/23/07		6.04	357.86
	06/27/07		6.31	357.59
	10/09/07		6.32	357.58
	01/14/08		6.59	357.31
	04/01/08		6.33	357.57
	07/22/08		6.14	357.76
	10/07/08		2.67	361.23
	01/28/09		5.64	358.26
	07/02/09		6.29	357.61
	01/12/10		6.62	357.28
	08/03/10		6.74	357.16
	01/19/11		6.01	357.89
	07/26/11		6.18	357.72
	02/22/12		7.85	356.05
	08/15/12		6.23	357.67
	02/26/13		6.52	357.38
	08/08/13	356.75	5.87	350.88

Table 2.
Summary of Groundwater Elevations
Vogue Cleaners
Martinez, Georgia

Sample ID	Sample Date	Top of Casing Elevation	Depth to Water (feet bls)	Corrected Groundwater Elevation
MW-12D	09/20/06	363.58	15.09	348.49
	01/23/07		15.30	348.28
	06/26/07		14.64	348.94
	10/09/07		14.93	348.65
	01/14/08		16.82	346.76
	04/01/08		17.23	346.35
	07/22/08		17.23	346.35
	10/07/08		17.90	345.68
	01/27/09		18.26	345.32
	07/02/09		18.73	344.85
	01/12/10		17.99	345.59
	08/03/10		17.09	346.49
	01/19/11		17.79	345.79
	07/26/11		15.70	347.88
	02/22/12		10.30	353.28
	08/15/12		10.18	353.40
	02/26/13		0.15	363.43
	08/07/13	356.45	14.50	341.95
MW-13	01/14/08	363.99	6.20	357.79
	04/01/08		6.06	357.93
	07/22/08		6.10	357.89
	10/07/08		6.73	357.26
	01/27/09		6.10	357.89
	07/02/09		6.19	357.80
	01/12/10		5.78	358.21
	08/03/10		5.94	358.05
	01/19/11		6.13	357.86
	07/26/11		6.48	357.51
	02/22/12		6.18	357.81
	08/15/12		6.16	357.83
	02/26/13		5.91	358.08
	08/08/13	356.99	5.97	351.02

Table 2.
Summary of Groundwater Elevations
Vogue Cleaners
Martinez, Georgia

Sample ID	Sample Date	Top of Casing Elevation	Depth to Water (feet bls)	Corrected Groundwater Elevation
MW-15	10/09/07	365.57	7.45	358.12
	01/04/08		7.35	358.22
	07/22/08		7.41	358.16
	10/07/08		7.58	357.99
	02/02/09		7.41	358.16
	07/02/09		NA	NA
	01/12/10		NA	NA
	08/03/10		7.36	358.21
	01/19/11		7.47	358.10
	07/26/11		7.44	358.13
	02/22/12		ABANDONED	
MW-16	01/27/09	362.65	4.75	357.90
	07/02/09		5.06	357.59
	01/12/10		NA	NA
	08/03/10		5.70	356.95
	01/19/11		3.78	358.87
	07/26/11		NA	NA
	02/22/12		ABANDONED	
MW-18	01/14/08	364.55	6.76	357.79
	04/01/08		6.71	357.84
	07/22/08		6.78	357.77
	10/07/08		6.79	357.76
	01/27/09		6.70	357.85
	07/02/09		6.83	357.72
	01/12/10		6.65	357.90
	08/03/10		6.65	357.90
	01/19/11		6.72	357.83
	07/26/11		NA	NA
	02/22/12		ABANDONED	
MW-22	07/26/11	363.1	5.49	357.61
	02/22/12		5.55	357.55
	08/15/12		5.55	357.55
	02/26/13		5.50	357.60
	08/07/13		5.41	350.64
POD-1	07/26/11	362.86	5.55	357.31
	02/22/12		5.60	357.26
	08/15/12		5.59	357.27
	02/26/13		5.54	357.32
	08/07/13		5.45	350.61

Notes:
 NA Not Accessible
 ft bls: Feet Below Land Surface

Table 3
Summary of Groundwater Analytical Results
Vogue Cleaners
Martinez, Georgia

Sample ID	Sample Date	Screened Interval (ft bls)	VOCs (ug/L)							
			cis-1,2-DCE	PCE	TCE	Vinyl Chloride	trans-1,2-DCE	Benzene	Toluene	Xylenes
MW-1	10/17/06	2.05 - 12.05	<5	<5	<5	<2	<5	<5	<5	<10
	01/01/07	2.05 - 12.05	3J	19	3J	<2	<5	8	<5	<10
	06/07/07	2.05 - 12.05	NA	NA	NA	NA	NA	NA	NA	NA
	10/10/07	2.05 - 12.05	<5	< 5	< 5	< 10	NA	9	BDL	BDL
	01/01/08	2.05 - 12.05	<1	1	<1	<1	<1	9	<1	<2
	04/01/08	2.05 - 12.05	< 5	< 5	< 5	< 2	< 5	14	< 5	<10
	07/01/08	2.05 - 12.05	NS	NS	NS	NS	NS	NS	NS	NS
	10/08/08	2.05 - 12.05	NS	NS	NS	NS	NS	NS	NS	NS
	01/09/09	2.05 - 12.05	NS	NS	NS	NS	NS	NS	NS	NS
	07/02/09	2.05 - 12.05	NS	NS	NS	NS	NS	NS	NS	NS
	01/13/10	2.05 - 12.05	NS	NS	NS	NS	NS	NS	NS	NS
	08/03/10	2.05 - 12.05	< 5	< 5	< 5	< 2	< 5	6	< 5	< 10
	01/19/11	2.05 - 12.05	NS	NS	NS	NS	NS	NS	NS	NS
	07/27/11	2.05 - 12.05	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	02/23/12	2.05 - 12.05	< 5	< 5	< 5	< 2	< 5	13	< 5	< 10
	08/15/12	2.05 - 12.05	<5	<5	<5	<2	<5	<5	<5	<10
	02/28/13	2.05 - 12.05	<5	<5	<5	<2	<5	<5	<5	<10
	08/07/13	2.05 - 12.05	<5	<5	<5	<2	<5	<5	<5	<10
MW-2	10/17/06	3.25 - 13.25	708	1,980	360	<2	<5	11	<5	<10
	01/01/07	3.25 - 13.25	1,340	7,820	947	<2	<5	10	<5	<10
	06/07/07	3.25 - 13.25	600	6,400	110	<10	<10	12	<10	<20
	10/01/07	3.25 - 13.25	109	1,100	35	< 2	< 5	< 5	< 5	<10
	01/01/08	3.25 - 13.25	93	1,500	35	<1	<1	<1	<1	<2
	04/01/08	3.25 - 13.25	130	1,570	37	< 2	< 5	4J	< 5	<10
	07/08/08	3.25 - 13.25	34	575	14	< 2	< 5	5	< 5	< 10
	10/09/08	3.25 - 13.25	25	403	9	< 2	< 5	< 5	< 5	< 10
	01/09/09	3.25 - 13.25	24	166	14	< 2	< 5	< 5	< 5	< 10
	07/02/09	3.25 - 13.25	110	68	37	< 1	< 1	< 1	< 1	< 2
	01/13/10	3.25 - 13.25	26	18	8	< 2	< 5	< 5	< 5	< 15
	08/03/10	3.25 - 13.25	8	100	< 5	< 2	< 5	< 5	< 5	< 15
	01/19/11	3.25 - 13.25	6	210	14	< 2	< 5	< 5	< 5	< 10
	07/27/11	3.25 - 13.25	<5	420	32	< 2	< 5	< 5	< 5	< 10
	09/01/11	3.25 - 13.25	< 5	97	9.7	< 2	< 5	< 5	< 5	< 10
	01/12/12	3.25 - 13.25	8.5	160	11.0	< 2	< 5	< 5	< 5	< 10
	02/23/12	3.25 - 13.25	< 5	360	30.0	< 2	< 5	< 5	< 5	< 10
	08/16/12	3.25 - 13.25	<5	<5	<5	<2	<5	<5	<5	<10
	10/11/12	3.25 - 13.25	5	8	5	<2	<5	<5	<5	<10
ABANDON WELL										
MW-2R	02/28/13	2.00-22.05	<5	<5	<5	<2	<5	<5	<5	<10
	08/07/13	2.00-22.05	5.4	25	16	<2	<5	<5	<5	<10
MW-4	10/17/06	2.6 - 13.12	<5	5	<5	<2	<5	<5	<5	<10
	01/01/07	2.6 - 13.12	<5	3J	<5	<2	<5	3J	<5	<10
	06/07/07	2.6 - 13.12	<1	<1	<1	<1	<1	<1	<1	<2
	10/01/07	2.6 - 13.12	< 5	< 5	< 5	< 2	< 5	6.0	< 15	<10
	01/01/08	2.6 - 13.12	<1	2	<1	<1	<1	7	<1	<2
	04/01/08	2.6 - 13.12	< 5	< 5	< 5	< 2	< 5	9	< 5	<10
	07/08/08	2.6 - 13.12	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	10/08/08	2.6 - 13.12	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	01/09/09	2.6 - 13.12	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	07/02/09	2.6 - 13.12	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2
	01/13/10	2.6 - 13.12	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 15
	08/03/10	2.6 - 13.12	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 15
	01/19/11	2.6 - 13.12	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	07/27/11	2.6 - 13.12	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	02/23/12	2.6 - 13.12	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	08/16/12	2.6 - 13.12	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	02/27/13	2.6 - 13.12	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	08/07/13	2.6 - 13.12	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
MW-5	10/17/06	3.08 - 13.08	<5	<5	<5	<2	<5	<5	<5	<10
	01/01/07	3.08 - 13.08	27	231	26	<2	<5	<5	<5	<10
	06/07/07	3.08 - 13.08	3	10	5	<1	<1	<1	<1	<2
	10/01/07	3.08 - 13.08	77	557	99	< 2	< 5	< 5	< 5	<10
	01/01/08	3.08 - 13.08	7	170	3	<1	<1	<1	<1	<2
	04/01/08	3.08 - 13.08	< 5	8	< 5	< 2	< 5	< 5	< 5	<10
	07/08/08	3.08 - 13.08	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	10/08/08	3.08 - 13.08	< 5	13	< 5	< 2	< 5	< 5	< 5	< 10
	01/09/09	3.08 - 13.08	< 5	22	< 5	< 2	< 5	< 5	< 5	< 10
	07/02/09	3.08 - 13.08	< 1	5	< 1	< 1	< 1	< 1	< 1	< 2
	01/13/10	3.08 - 13.08	< 5	160	< 5	< 2	< 5	< 5	< 5	< 15
	08/03/10	3.08 - 13.08	< 5	90	< 5	< 2	< 5	< 5	< 5	< 15
	01/19/11	3.08 - 13.08	6	11	< 5	< 2	< 5	6	< 5	< 10
	07/27/11	3.08 - 13.08	< 5	8.8	< 5	< 2	< 5	< 5	< 5	< 10
	02/23/12	3.08 - 13.08	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	08/15/12	3.08 - 13.08	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	02/27/13	3.08 - 13.08	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	08/07/13	3.08 - 13.08	9.2	820	180	< 2	< 5	< 5	< 5	< 10
	08/23/13	3.08 - 13.08	< 5	140	26	< 2	< 5	< 5	< 5	< 10

Table 3
Summary of Groundwater Analytical Results
Vogue Cleaners
Martinez, Georgia

Sample ID	Sample Date	Screened Interval (ft bls)	VOCs (ug/L)							
			cis-1,2-DCE	PCE	TCE	Vinyl Chloride	trans-1,2-DCE	Benzene	Toluene	Xylenes
MW-8R	02/28/13	2.00-19.05	17	2,600	840	< 2	< 5	< 5	< 5	< 10
	08/07/13	2.00-19.05	43	1,800	1,300	< 2	< 5	< 5	< 5	< 10
	08/23/13	2.00-19.05	< 5	16	< 5	< 2	< 5	< 5	< 5	< 10
MW-8D	10/17/06	29.42 - 39.42	<5	12	<5	<2	<5	<5	<5	<10
	01/01/07	29.42 - 39.42	<5	11	<5	<2	<5	<5	<5	<10
	06/01/07	29.42 - 39.42	<1	<1	<1	<1	<1	<1	<1	<2
	10/01/07	29.42 - 39.42	<5	<5	<5	<2	<5	<5	<5	<10
	01/01/08	29.42 - 39.42	<1	51	<1	<1	<1	<1	<1	<2
	04/01/08	29.42 - 39.42	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	07/08/08	29.42 - 39.42	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	10/08/08	29.42 - 39.42	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	01/09/09	29.42 - 39.42	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	07/02/09	29.42 - 39.42	< 1	1	< 1	< 1	< 1	< 1	< 1	< 2
	01/13/10	29.42 - 39.42	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 15
	08/03/10	29.42 - 39.42	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 15
	01/19/11	29.42 - 39.42	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	07/27/11	29.42 - 39.42	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	02/23/13	29.42 - 39.42	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	08/07/13	29.42 - 39.42	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
MW-12D	10/17/06	28.47 - 38.47	99	340	19	<2	<5	7	8	<10
	01/01/07	28.47 - 38.47	44	752	19	<2	<5	3J	12	<10
	06/01/07	28.47 - 38.47	32	540	12	<1	<1	5	7	<2
	10/01/07	28.47 - 38.47	21	338	9	< 2	< 5	4J	5	<10
	01/01/08	28.47 - 38.47	8	99	2	<1	<1	6	2	<2
	04/01/08	28.47 - 38.47	8	118	< 5	< 2	< 5	< 5	< 5	<10
	07/08/08	28.47 - 38.47	5	118	< 5	< 2	< 5	< 5	< 5	<10
	10/08/08	28.47 - 38.47	5	72	< 5	< 2	< 5	< 5	< 5	<10
	01/09/09	28.47 - 38.47	117	16	< 5	< 2	< 5	< 5	< 5	<10
	07/02/09	28.47 - 38.47	120	52	10	< 1	< 1	2	1	< 2
	01/13/10	28.47 - 38.47	160	15	< 5	< 2	< 5	< 5	< 5	< 15
	08/03/10	28.47 - 38.47	120	12	6	< 2	< 5	8	< 5	< 15
	01/19/11	28.47 - 38.47	150	8	< 5	< 2	< 5	7	< 5	< 10
	07/27/11	28.47 - 38.47	120	<5	< 5	< 2	< 5	5.9	< 5	< 10
	02/23/12	28.47 - 38.47	54	<5	< 5	< 2	< 5	< 5	< 5	< 10
08/15/12	28.47 - 38.47	13	12	< 5	< 2	< 5	< 5	< 5	< 10	
02/27/13	28.47 - 38.47	11	<5	< 5	< 2	< 5	< 5	< 5	< 10	
	08/07/13	28.47 - 38.47	< 5	19	< 5	< 2	< 5	< 5	< 5	< 10
MW-22	07/08/11	3.6 - 13.6	14	8	< 5	< 2	< 5	< 5	< 5	< 10
	07/27/11	3.6 - 13.6	11	11	< 5	< 2	< 5	< 5	< 5	< 10
	01/12/12	3.6 - 13.6	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	02/23/12	3.6 - 13.6	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	08/16/12	3.6 - 13.6	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	02/27/13	3.6 - 13.6	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	08/07/13	3.6 - 13.6	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
POD-1	07/08/11	3.1 - 13.1	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	07/27/11	3.1 - 13.1	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	02/23/12	3.1 - 13.1	< 5	22	< 5	< 2	< 5	< 5	< 5	< 10
	08/15/12	3.1 - 13.1	< 5	12	< 5	< 2	< 5	< 5	< 5	< 10
	10/29/12	3.1 - 13.1	< 5	6	< 5	< 2	< 5	< 5	< 5	< 10
	02/27/13	3.1 - 13.1	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10
	08/07/13	3.1 - 13.1	< 5	< 5	< 5	< 2	< 5	< 5	< 5	< 10

Notes:

VOCs Volatile Organic Compounds
ug/L micrograms per Liter
ft bls feet below land surface
DCE dichloroethene
PCE tetrachloroethene
TCE trichloroethene
<5 Below Laboratory Detection Limit

Table 4
Summary of Sub-slab Soil Gas Analytical Results
Vogue Cleaners
Martinez, Georgia

Sample ID	Sample Date	VOCs (mg/m ³)							
		cis-1,2-DCE	PCE	TCE	Vinyl Chloride	trans-1,2-DCE	Benzene	Toluene	Xylenes
SV-2	07/11/11	< 40	15,000	< 55	< 26	< 80	110	280	140
SV-3	07/11/11	1300	420,000	10,000	< 260	< 800	< 320	< 380	< 44
SV-4	07/11/11	< 400	66,000	770	< 260	< 800	< 320	< 380	< 880
SV-1R	06/12/13	< 8.0	2,300	< 11	< 5.2	< 16	< 6.5	7.8	< 18
SV-2R	06/12/13	< 4.0	480	< 5.5	< 2.6	< 8.0	< 3.2	11	31.2
SV-3R	06/12/13	< 20	7,800	100	< 13	< 40	< 16	< 19	< 66
SV-4R	06/12/13	130	47,000	1,400	< 26	< 80	< 32	< 38	< 88
SV-5R	06/12/13	< 40	29,000	680	< 26	< 80	< 30	< 38	< 132

Notes:

VOCs Volatile Organic Compounds
ug/m³ micrograms per cubic meter of air
DCE dichloroethene
PCE tetrachloroethene
TCE trichloroethene
<5 Below Laboratory Detection Limit

TABLE 5: Cumulative Risk Calculations - Vogue Cleaners

Allowed Indoor Air Values from the EPA Regional Screening Values Updated April 2012

Sub-slab Soil Gas Data

		SV-1		SV-2		SV-3		SV-4		SV-5		Surface Weighted Average			
Compound	Soil Gas Screening Value* ug/m3	Measured Conc ug/m3	Calculated Risk		Measured Conc ug/m3	Calculated Risk		Measured Conc ug/m3	Calculated Risk		Measured Conc ug/m3	Calculated Risk		Calculated Conc ug/m3	Calculated Risk
Cancer Risk															
Tetrachloroethylene (PCE)	156,667	2300	1.5E-07		480	3.20E-08		7800	5.10E-07		47000	3.10E-06		10935	7.20E-07
Trichloroethene (TCE)	10,000	11	1.1E-08		5.5	5.70E-09		100	1.00E-07		1400	1.50E-06		254	2.60E-07
Cumulative Risk			1.61E-07			3.77E-08			6.10E-07			4.60E-06			9.80E-07
Non-Cancer Hazard Quotient (HQ)															
Acetone	46,666,667	84	1.9E-06		69	1.6E-06		120	2.7E-06		240	5.5E-06		127	2.4E-06
Toluene	7,333,333	7.8	1.1E-06		11	1.6E-06		19	2.7E-06		38	5.4E-06		18	2.0E-06
Tetrachloroethylene (PCE)	58,065	2300	4.1E-02		480	8.5E-03		7800	1.4E-01		47000	8.3E-01		10935	1.9E-01
Trichloroethylene (TCE)	2,933	11	3.9E-03		5.5	1.9E-03		100	3.5E-02		1400	5.0E-01		254	9.2E-02
4-Methyl-2-Pentanone (MIBK)	4,333,333	17	4.0E-06		12	2.8E-06		41	9.7E-06		83	2.0E-05		36	6.6E-06
Xylenes	146,667	26.8	1.9E-04		31.2	2.2E-04		66	4.7E-04		132	9.3E-04		59	3.4E-04
1,2,4-Trimethylbenzene	10,333	10	1.0E-03		20	2.0E-03		25	2.5E-03		50	5.1E-03		25	2.5E-03
Cumulative Hazard Quotient			0.046			0.013			0.178			1.336			0.285

11 - Results below the detection limit. Value presented in the reporting limit

* As discussed in text, sub-slab screening level = commercial indoor air RSL/ Attenuation Factor or = RSL/0.0031

Default Values Used in These Calculations:

Soil gas attenuation factor of 0.0031 (based on empirical data)

Assume commercial room ventilation rate of 1 room exchange/hour or twice the residential rate

FIGURES

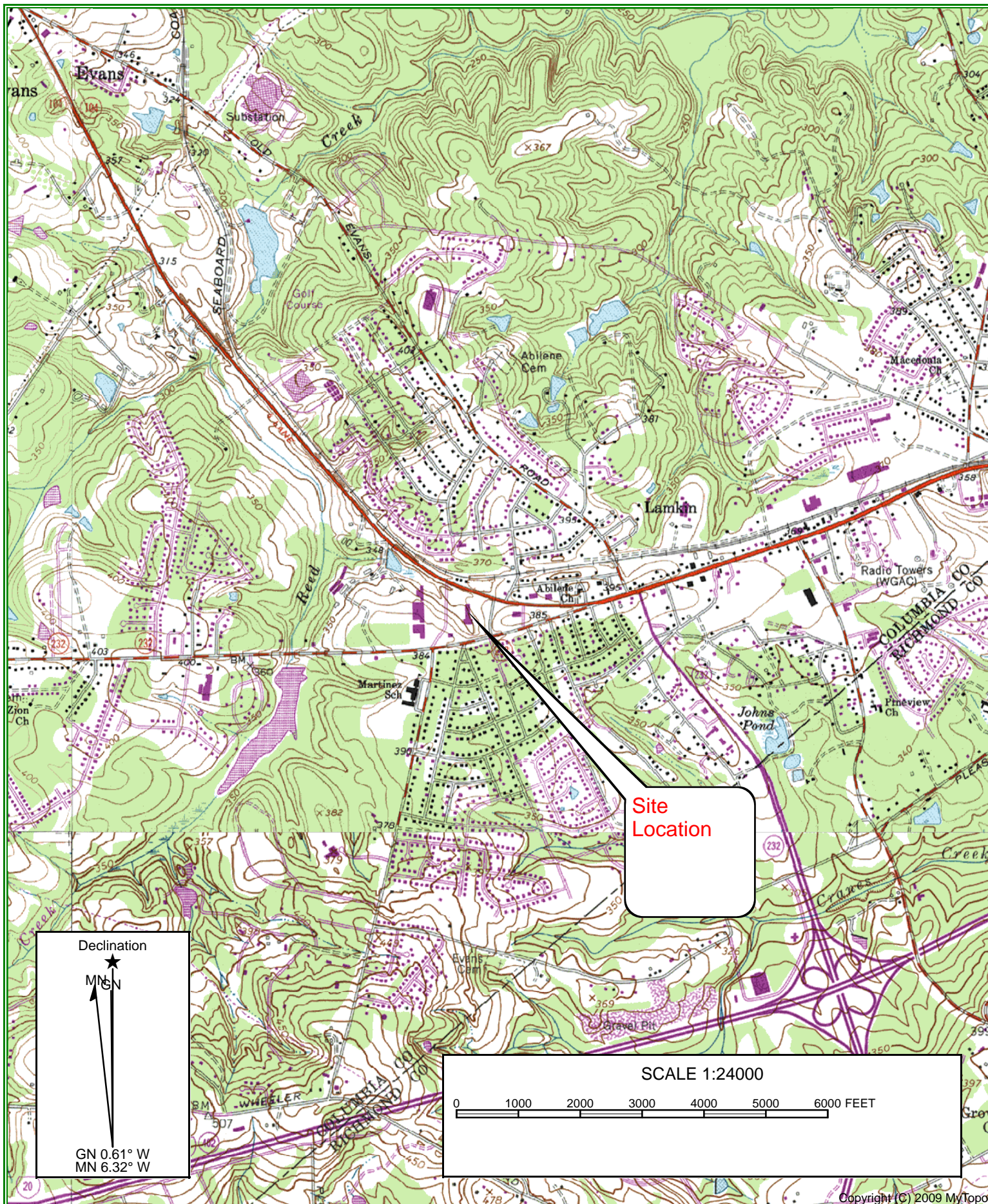


Figure 1: Site Location Map
Former Vogue Cleaners
Martinez, Georgia

Map: MARTINEZ QUAD



Genesis Project, Inc.
ENVIRONMENTAL SERVICES

Genesis Project, Inc.
1258 Concord Rd
Smyrna, Georgia 30080
Telephone: 770-319-7217
Fax: 770-319-7219

FIGURE 3A
SUBSURFACE DIAGRAM
A-A'

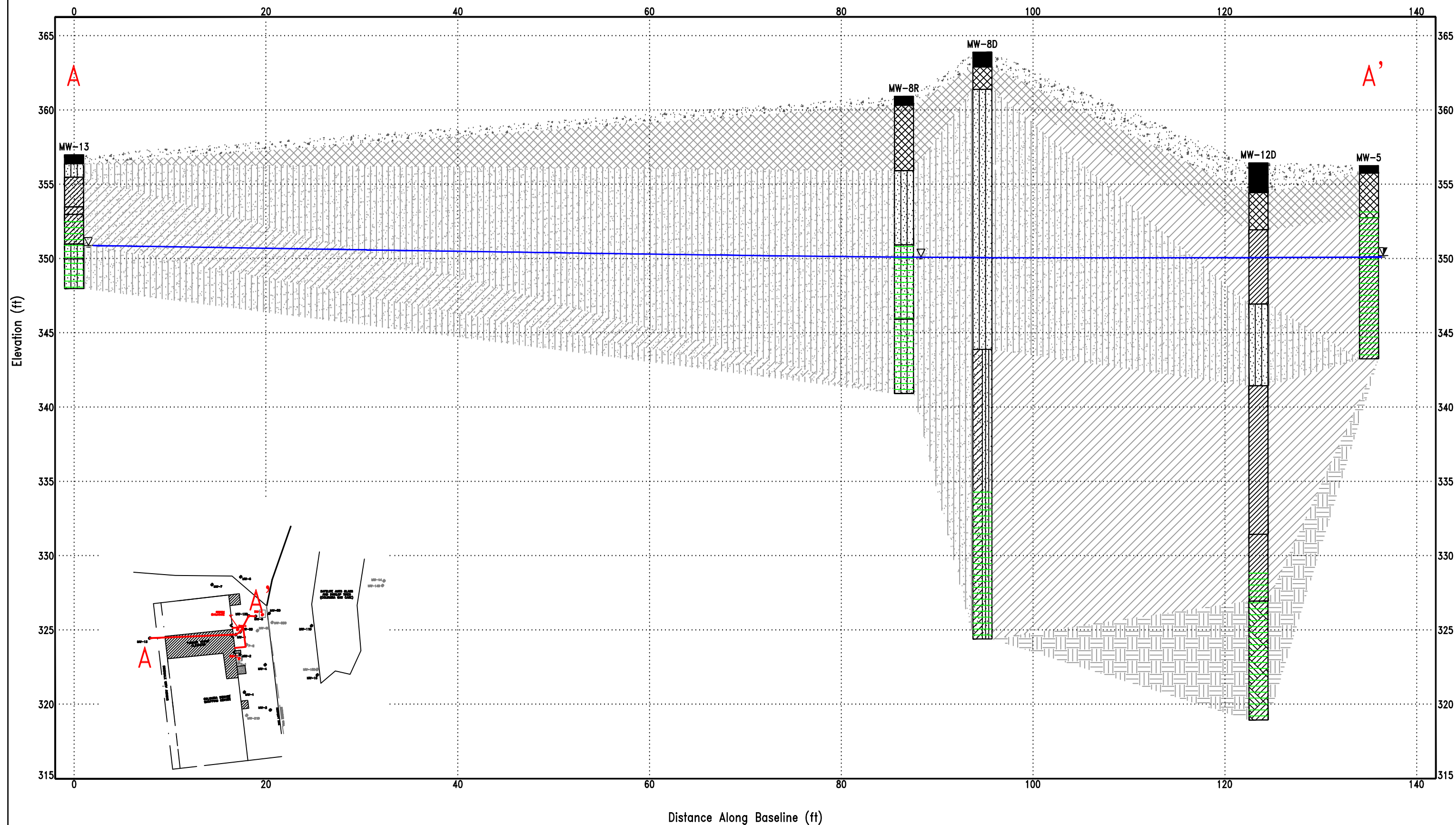
- | | | |
|------------------|--------------------|--------------------------------|
| Asphalt | Fill (made ground) | USCS Low Plasticity Clay |
| USCS Silty Sand | Bedrock | USCS Low Plasticity Sandy Clay |
| USCS Clayey Sand | | |

CLIENT Morgan Stanley

PROJECT NAME Former Vogue Cleaners

PROJECT NUMBER _____

PROJECT LOCATION Martinez, Georgia



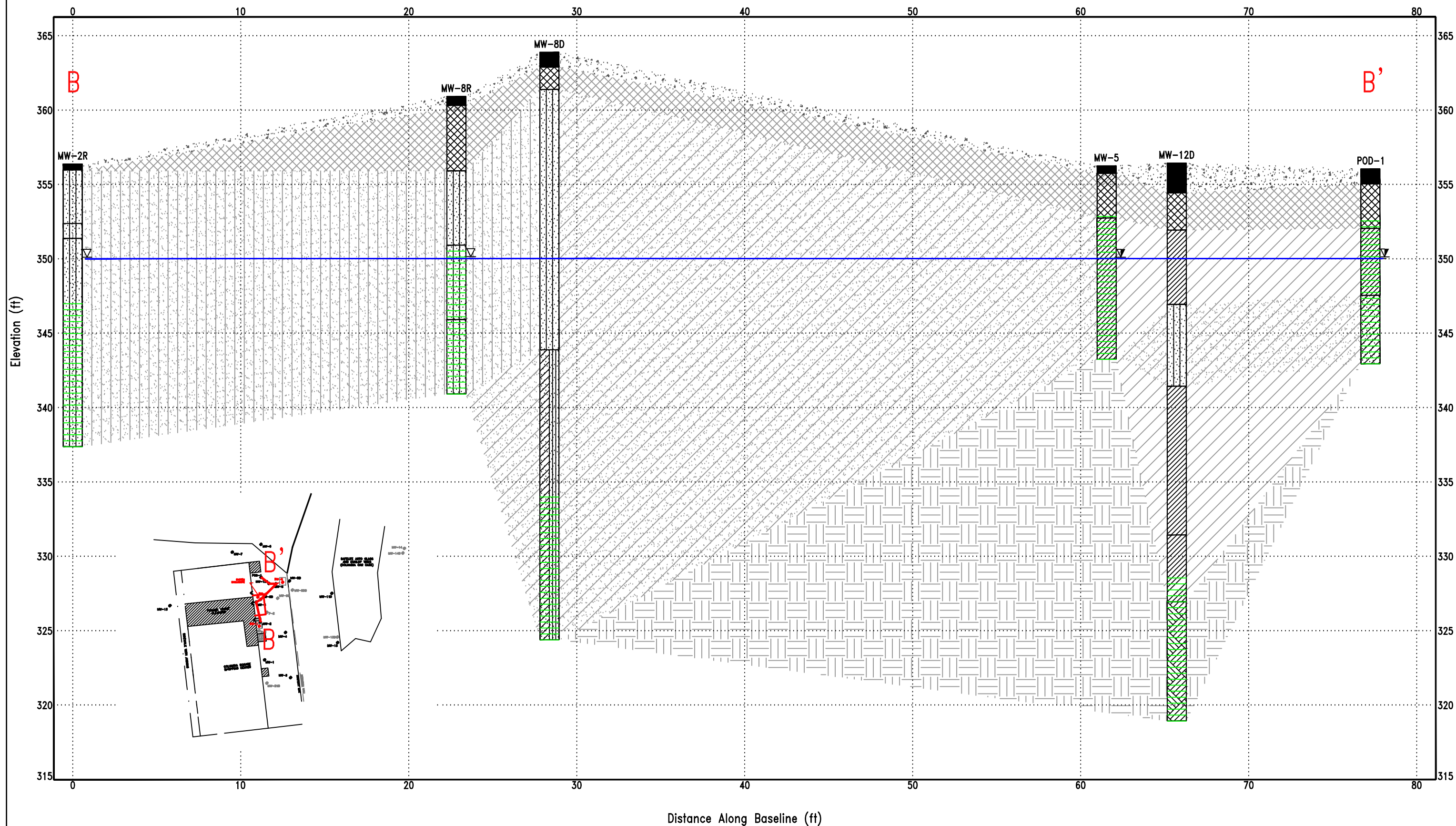
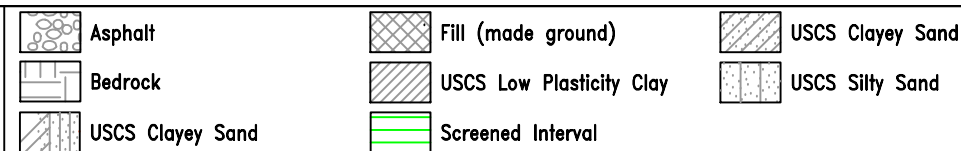


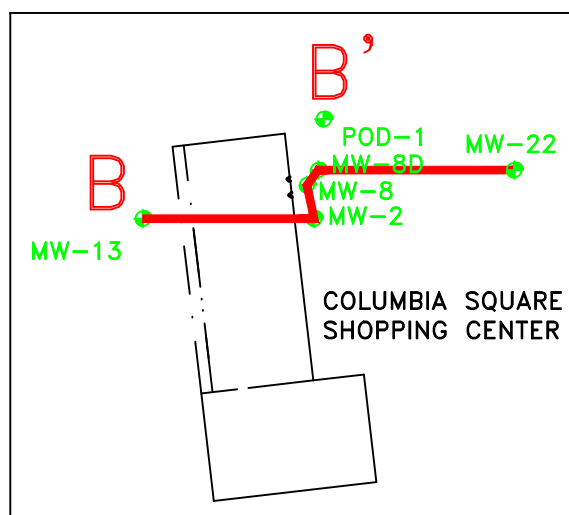
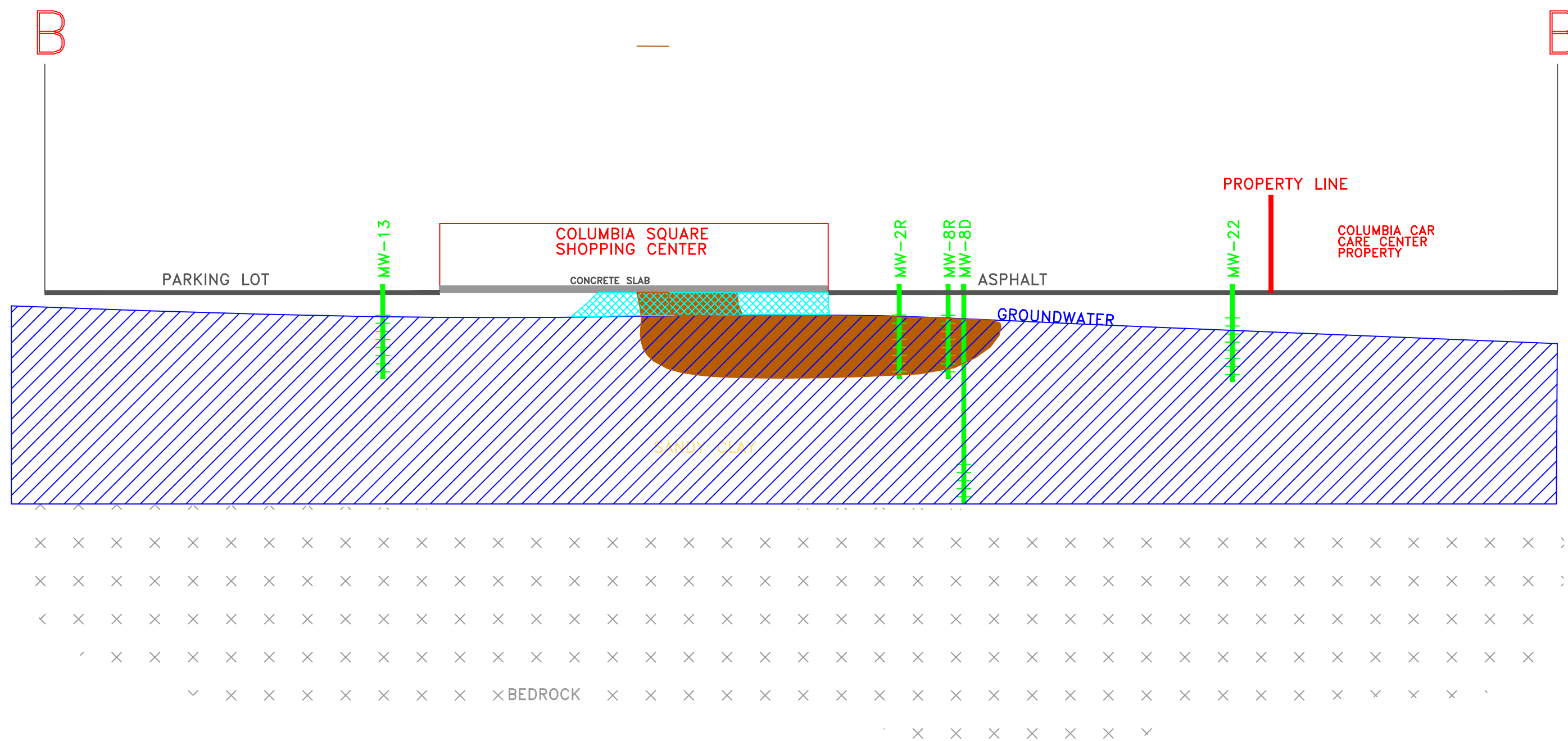
Genesis Project, Inc.
1258 Concord Rd
Smyrna, Georgia 30080
Telephone: 770-319-7217
Fax: 770-319-7219

CLIENT Morgan Stanley
PROJECT NUMBER _____

PROJECT NAME Former Vogue Cleaners
PROJECT LOCATION Martinez, Georgia




FIGURE 3B
SUBSURFACE DIAGRAM B-B'
AUGUST 23, 2013

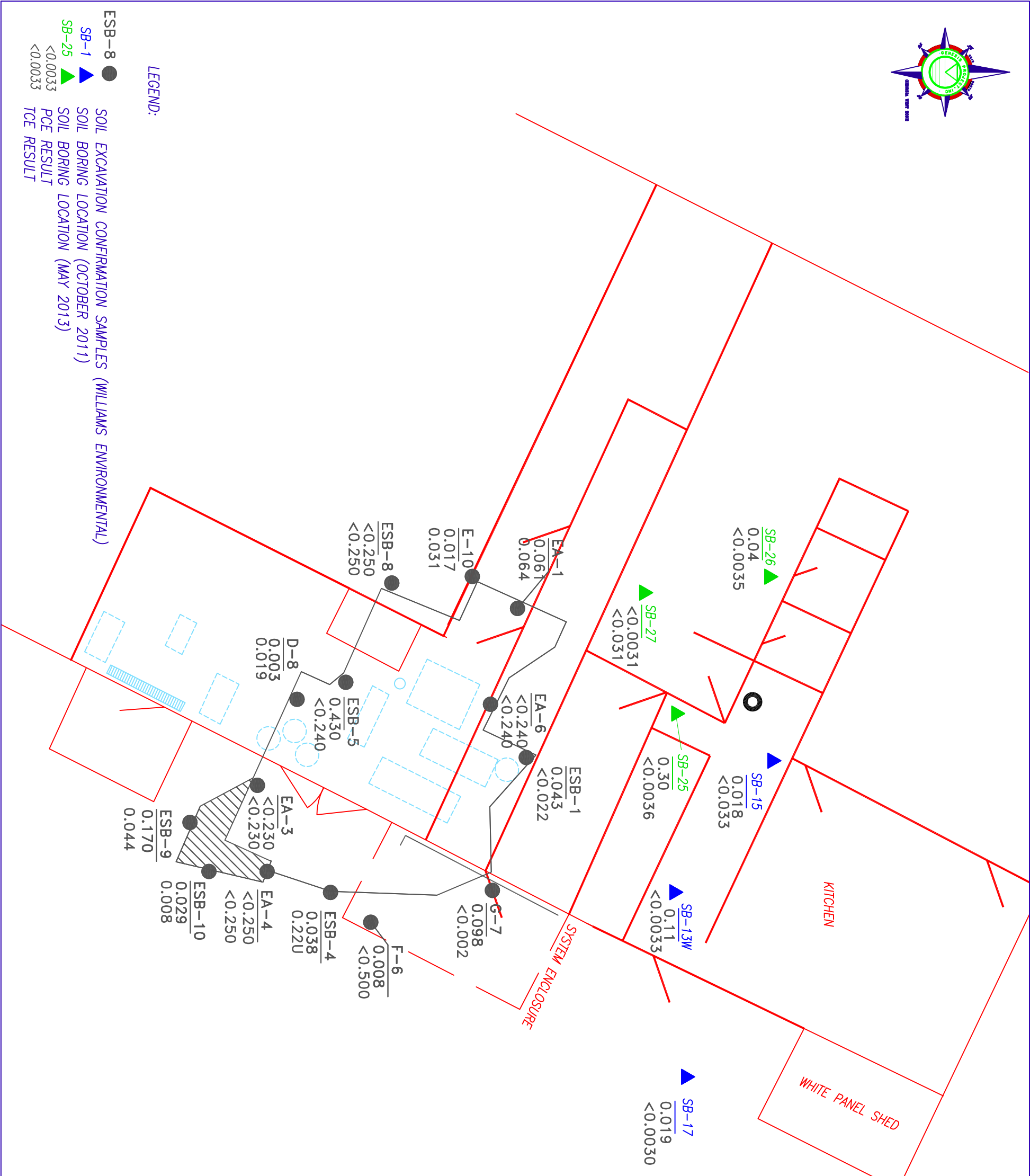
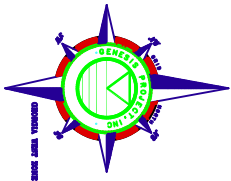




LEGEND:

- IMPACTED SOIL
- POTENTIALLY IMPACTED SOIL VAPOR
- IMPACTED GROUNDWATER
- GROUNDWATER
- SCREENED INTERVAL

	--	--	--	JAT	MDM	MDM	
REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW	
SCALE			<div><div>025</div><div></div><div>SCALE IN FEET</div></div>				
CONCEPTUAL SITE MODEL FORMER VOGUE CLEANERS COLUMBIA SQUARE SHOPPING CENTER MARTINEZ, GEORGIA							
 <div>Genesis Project, Inc. ENVIRONMENTAL SERVICES</div> <div>Atlanta, Ga</div>			PROJECT No.		CSS	FILE No.	--
			DESIGN	JAT	9/17/12	SCALE AS SHOWN	REV. --
			CADD	JAT	9/17/12	<div>Figure 4B</div>	
			CHECK	MDM	9/17/12		
			REVIEW	MDM	9/17/12		



△	--	--		--		JAT	MDM	MDM	
REV	DATE	DES	REVISION DESCRIPTION			CAOD	CHK	RW	
SCALE									
<div><div>0510</div><div>SCALE</div><div>FEET</div></div>									
SUMMARY OF SOIL ANALYTICAL RESULTS									
FORMER VOGUE CLEANERS									
MARTINEZ, GEORGIA									
PROJECT No.		--	FILE No.		AS SHOWN	REV.	--		
DESIGN	JAT	3/7/12	SCALE						
CAOD	JAT	3/7/12							
CHECK	MDM	3/7/12							
REVIEW	MDM	3/7/12							



ATLANTA, GA



Genesis Project, Inc.
1258 Concord Rd
Smyrna, Georgia 30080
Telephone: 770-319-7217
Fax: 770-319-7219

CLIENT Morgan Stanley

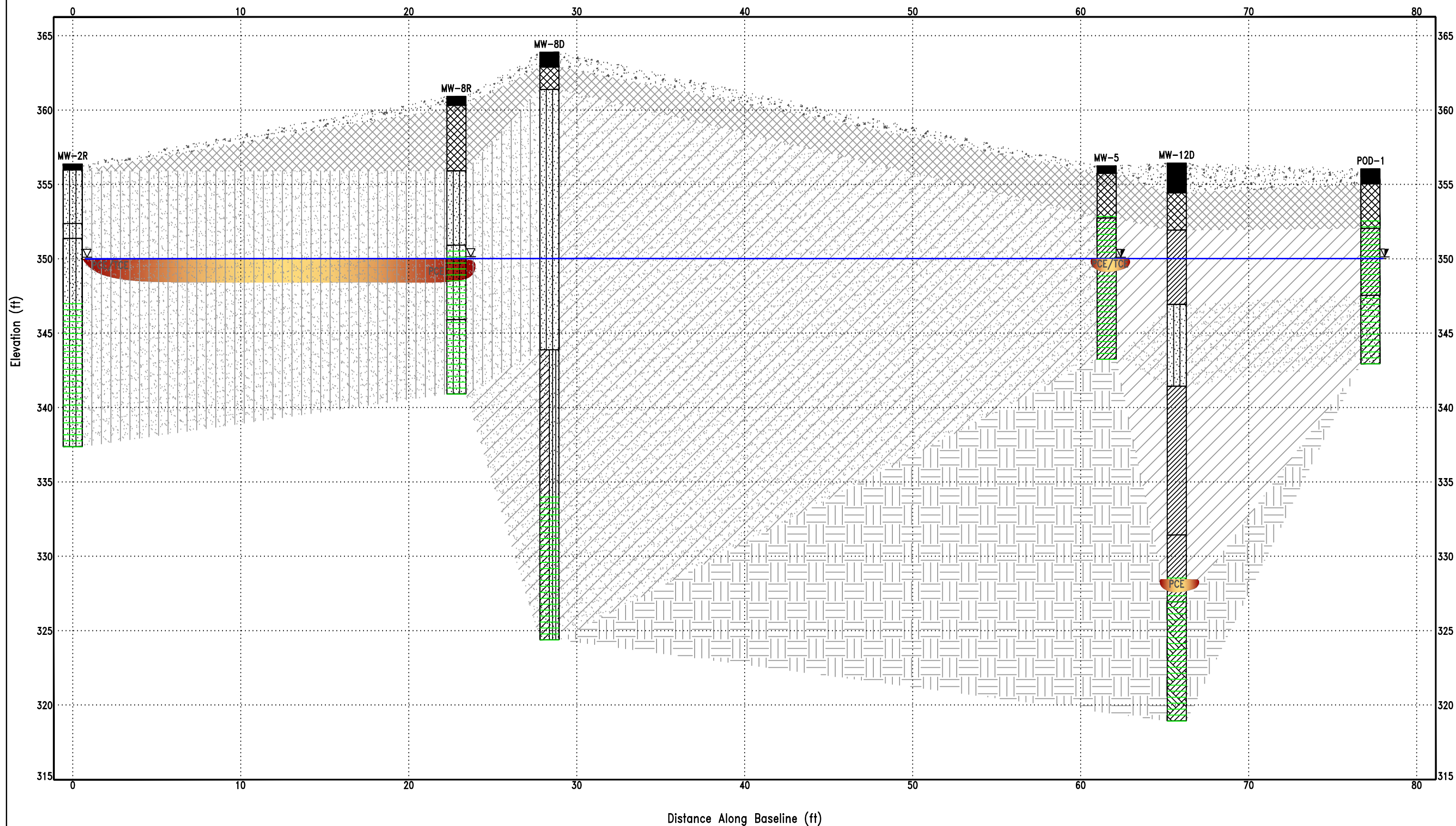
PROJECT NUMBER _____

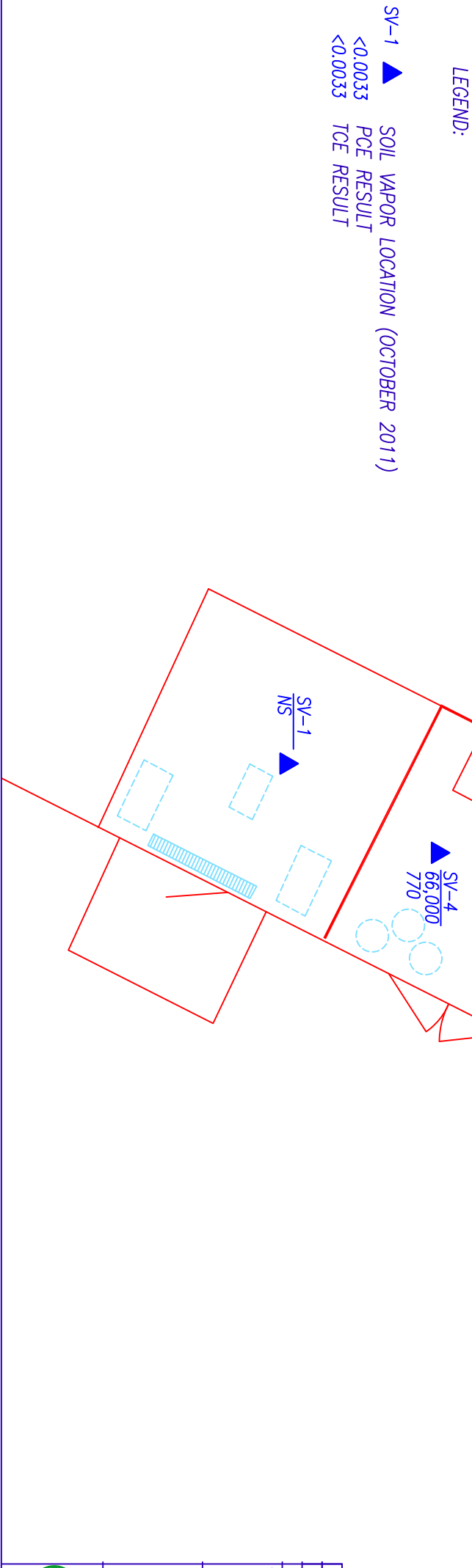
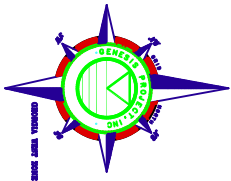
PROJECT NAME Former Vogue Cleaners

PROJECT LOCATION Martinez, Georgia

FIGURE 7B
PCE/TCE RESULTS
AUGUST 23, 2013

- | | | |
|------------------|--------------------------|------------------|
| Asphalt | Fill (made ground) | USCS Clayey Sand |
| Bedrock | USCS Low Plasticity Clay | USCS Silty Sand |
| USCS Clayey Sand | Screened Interval | |

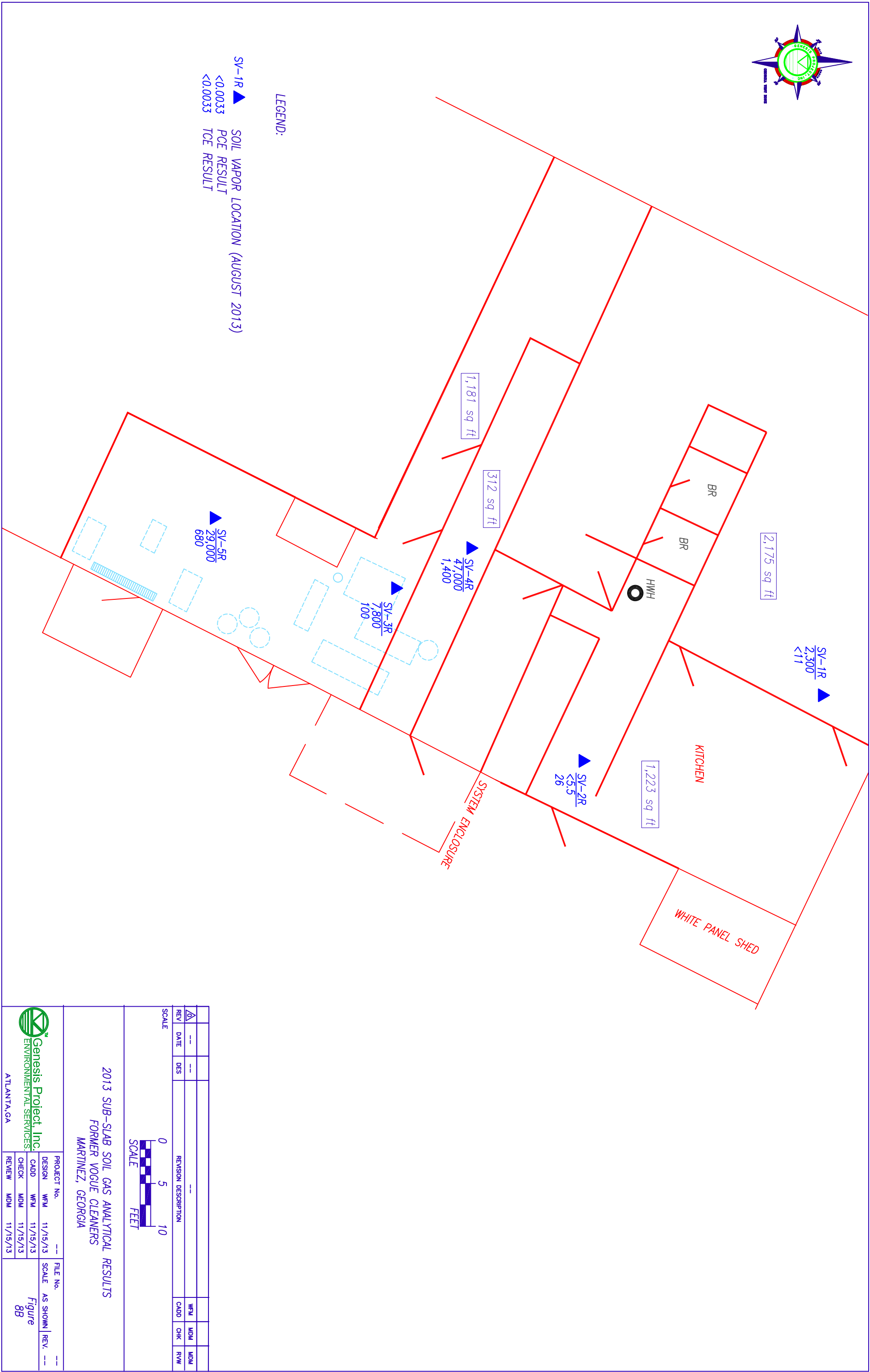





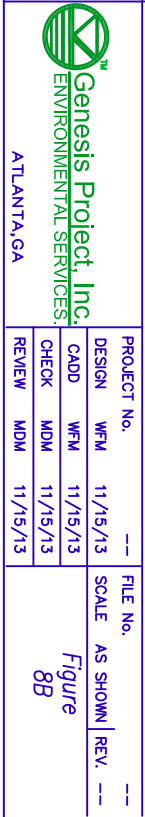
▲	--	--	--		JAT	MDM	MDM
REV	DATE	DES	REVISION DESCRIPTION		CAOD	CHK	R/W
SCALE				0 5 10 SCALE FEET			
2011 SUB-SLAB SOIL GAS ANALYTICAL RESULTS FORMER VOGUE CLEANERS MARTINEZ, GEORGIA							
PROJECT No. --				FILE No. --			
DESIGN JAT 3/7/12		SCALE AS SHOWN		REV. --			
CADD JAT 3/7/12							
CHECK MDM 3/7/12				Figure 8A			
REVIEW MDM 3/7/12							


Genesis Project, Inc.
ENVIRONMENTAL SERVICES

ATLANTA, GA



 Genesis Project, Inc. ENVIRONMENTAL SERVICES ATLANTA, GA	PROJECT NO.	--	FILE NO.	--			
	DESIGN	WFM	11/15/13	SCALE	AS SHOWN	REV.	--
	CADD	WFM	11/15/13	<i>Figure 8B</i>			
	CHECK	MDM	11/15/13				
	REVIEW	MDM	11/15/13				



 Genesis Project, Inc. ENVIRONMENTAL SERVICES ATLANTA, GA	PROJECT NO.	---	FILE NO.	---		
	DESIGN	WFM	11/15/13	SCALE	AS SHOWN	REV. ---
	CADD	WFM	11/15/13	<i>Figure 8B</i>		
	CHECK	MDM	11/15/13			
	REVIEW	MDM	11/15/13			

APPENDIX A
LEGAL DESCRIPTION OF PROPERTY

Vogue Cleaners-Columbia Square

4020 Washington Road
Augusta, GA 30907

Inquiry Number: 2777972.1
June 01, 2010

The EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

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The EDR Environmental LienSearch™ Report

TARGET PROPERTY INFORMATION

ADDRESS

4020 Washington Road
Vogue Cleaners-Columbia Square
Augusta, GA 30907

RESEARCH SOURCE

Source 1:

Columbia Clerk of Court
Columbia, GA

PROPERTY INFORMATION

Deed 1:

Type of Deed: Limited Warranty Deed
Title is vested in: Columbia Square Investors, LLC
Title received from: The Equitable Life Assurance Society of the United
Deed Dated: 11/20/2001
Deed Recorded: 12/4/2001
Book: 2879
Page: 123
Volume: NA
Instrument: NA
Docket: NA
Land Record Comments:
Miscellaneous Comments:

Legal Description: see exhibit

Legal Current Owner: Columbia Square Investors, LLC

Property Identifiers: 079-087

Comments: see exhibit

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

The EDR Environmental LienSearch™ Report

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

AULs: Found ☒ Not Found ☐

If found:

1st Party: NA
2nd Party: NA
Dated: 9/18/2006
Recorded: 9/18/2006
Book: 5636
Page: 289
Docket: NA
Volume: NA
Instrument: NA
Comments:
Miscellaneous Comments:

Deed Exhibit 1

Georgia, Columbia County

This is to certify that \$ 1758.00

Georgia Real Estate Transfer Tax

was paid on 12-4-01

Cindy Mason

Clerk Superior Court

123
Filed In This Office
Columbia County

2001 DEC -4 AM 10:46

Cindy Mason
Clerk Superior Court

Upon recording, return to:

SCOTT J. HEDGECOCK & ASSOCIATES
7 GEORGE C. WILSON COURT
AUGUSTA, GEORGIA 30608
(706) 863-2258

Filed BOOK 2879 PAGE 123-127

CLERK OF SUPERIOR COURT
COLUMBIA COUNTY, GEORGIA 19477
CINDY MASON, CLERK

LIMITED WARRANTY DEED

STATE OF GEORGIA

COUNTY OF FULTON

THIS INDENTURE, made this 20th day of November, 2001, between THE EQUITABLE LIFE ASSURANCE SOCIETY OF THE UNITED STATES, a New York corporation, (herein collectively called "Grantor") and COLUMBIA SQUARE INVESTORS, LLC, a Georgia limited liability company, (herein called "Grantee").

WITNESSETH: That Grantor, for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration, in hand paid at and before the sealing and delivery of these presents, the receipt and sufficiency of which are hereby acknowledged, has granted, bargained, sold, aliened, conveyed and confirmed and by these presents does grant, bargain, sell, alien, convey and confirm unto Grantee all that tract or parcel of land described on Exhibit A attached hereto and made a part hereof (the "Land").

TO HAVE AND TO HOLD the Land, together all buildings, structures and improvements thereon and with all and singular the rights, easements, members and appurtenances thereof, (the Land, together with the foregoing, is hereinafter referred to as the "Property") to the same being, belonging or in any wise appertaining, to the only proper use, benefit and behoof of Grantee, forever, IN FEE SIMPLE.

This Deed and the warranty of title contained herein are made expressly subject to the items set forth on Exhibit B attached hereto and made a part hereof (the "Permitted Exceptions").

Except for the Permitted Exceptions, Grantor will warrant and forever defend the right and title to the Property unto Grantee against the lawful claims of all persons owning, holding or claiming by, through or under Grantor, but not otherwise.

(The words "Grantor" and "Grantee" include all genders, plural and singular, and their respective heirs, successors and assigns where the context requires or permits.)

Equitable/Deed

EXHIBIT A
Legal Description

All that tract or parcel of land lying and being in Columbia County, Georgia, and being more particularly described as follows:

From the Northeast intersection of the right-of-way of Columbia Road (150 foot right-of-way) and the right-of-way of Flowing Wells Road (80 foot right-of-way), go North 38°35' East along the Easterly right-of-way of Flowing Wells Road a distance of 107.8 feet to a point; thence continue along said right-of-way around a curve a lineal distance of 97.59 feet (said lineal distance being the arc of a curve having a radius of 421.9 feet) to an iron pin and the POINT OF BEGINNING; thence continue along said right-of-way following the curvature thereof a lineal distance of 176.21 feet (said lineal distance being the arc of a curve having a radius of 421.9 feet) to an iron pin; thence continue along said right-of-way North 1°23' East a distance of 294.68 feet to an iron pin; thence South 88°32'30" East a distance of 204.65 feet to an iron pin; thence North 1°27'30" East a distance of 168.35 feet to an iron pin lying on the Southerly right-of-way line of Washington Road (100 foot right-of-way); thence South 65°33'45" East along said right-of-way a distance of 32.59 feet to an iron pin; thence South 1°27'30" West a distance of 150.0 feet to an iron pin; thence South 66°22' East a distance of 70.00 feet to an iron pin; thence South 87°52' East 53.50 feet to an iron pin; thence South 44°43'20" East 53.16 feet to an iron pin; thence South 1°23' West a distance of 142.93 feet to an iron pin; thence South 46°59' East a distance of 60.21 feet to an iron pin; thence South 1°23' West a distance of 135.0 feet to an iron pin; thence South 80°42' West a distance of 175.0 feet to an iron pin; thence South 9°18' East a distance of 146.49 feet to an iron pin set on the Northerly right-of-way line of Columbia Road (150 foot right-of-way); thence South 79°12' West along said right-of-way a distance of 30.01 feet to an iron pin; thence North 9°18' West a distance of 147.27 feet to an iron pin; thence South 80°42' West a distance of 150.0 feet to an iron pin; thence South 80°42' West a distance of 125.73 feet to an iron pin and the POINT OF BEGINNING, said tract containing 4.14 acres as shown by Plat for Columbia Square Corporation by Baldwin & Cranston Associates, Inc., dated June 10, 1977.

Equitable/Deed

124

IN WITNESS WHEREOF, Grantor has caused this Indenture to be executed and sealed the day and year first above written.

Signed, sealed and delivered in the presence of:

[Signature]
Witness

Ann B. Coker
Notary Public
My commission expires: 2/13/05
[NOTARY SEAL]
Notary Public, Fulton County, Georgia
My Commission Expires February 13, 2005

THE EQUITABLE LIFE ASSURANCE
SOCIETY OF THE UNITED STATES

By: [Signature]
Name: Mark Hillis
Investment Officer
Title: Mark Hillis
Investment Officer [SEAL]

EXHIBIT B

PERMITTED TITLE EXCEPTIONS

1. All taxes for the year 2001 and subsequent years, not yet due and payable.
2. Taxes or special assessments which are not shown as existing liens by the public records.
3. Easement from Mrs. Charles Abraham to Georgia Power Company, dated July 12, 1937, recorded in Deed Book 19, page 71(b), Columbia County Records.
4. Right-of-Way Deed to State Highway Department of Georgia, dated January 7, 1946, recorded at Deed Book 25, Page 473, Columbia County Records.
5. Easement from Nelson Cash to Georgia Power Company, dated November 7, 1946, recorded at Deed Book 26, page 336(a), Columbia County Records.
6. Easement from Nelson Cash to Georgia Power Company, dated December 11, 1946, recorded at Deed Book 26, page 470(a), Columbia County Records.
7. Easement from Nelson Cash to Georgia Power Company, dated October 28, 1963, recorded at Deed Book 70, page 67(b), Columbia County Records.
8. Right-of-Way Deed from Timothy J. O'Neill, et. al., to Columbia County, dated August 10, 1973, recorded at Deed Book 143, page 817, Columbia County Records, as affected or modified by Right-of-Way Deed from Timothy J. O'Neill to Columbia County, dated August 30, 1973, recorded at Deed Book 144, page 693, Columbia County Records.
9. Memorandum of Lease to Roses Stores, Inc., dated July 19, 1973, recorded at Deed Book 145, page 255, as amended by instrument recorded at Deed Book 160, page 26, Columbia County Records.
10. Easements and Restrictions contained in Deed to First Federal Savings, dated July 23, 1974, recorded at Deed Book 155, page 36, Columbia County Records.
11. Declaration of Covenants, dated December 20, 1974, recorded at Deed Book 159, page 713, Columbia County Records.
12. Easements contained in Warranty Deed dated December 30, 1974, recorded at Deed Book 159, page 794, Columbia County Records.
13. Easement from Hadco, Inc. to Georgia Power Company, dated March 11, 1974, recorded at Deed Book 160, page 454, Columbia County Records.
14. Easements granted in Warranty Deed recorded at Deed Book 163, page 603, and as shown on Plat recorded at Plat Book 5, page 88, Columbia County Records.
15. Easement Agreement, dated October 16, 1975, recorded at Deed Book 171, page 583, Columbia County Records, as corrected, supplemented and modified by Easement dated August 16, 1977, recorded at Deed Book 201, page 35, Columbia County Records.

16. Easement Agreement, dated June 6, 1976, recorded at Deed Book 179, page 770, Columbia County Records, as re-recorded to add Exhibit "B" at Deed Book 181, page 447, Columbia County Records.
17. Easement from Columbia Square Co., Inc. to Georgia Power Company, dated October 13, 1976, recorded at Deed Book 194, page 551, Columbia County Records.
18. Easement to Columbia County recorded at Deed Book 195, page 658, Columbia County Records, and supporting Plat recorded at Plat Book 7, page 41, Columbia County Records.
19. Easement from The Equitable Life Assurance Society of the United States to Georgia Power Company, filed April 30, 1980, recorded at Deed Book 247, page 642, Columbia County Records.
20. Matters shown on that certain ALTA/ACSM Land Title Survey for The Equitable Life Assurance Society of the United States, Lend Lease Real Estate Investments, Inc., Chicago Title Insurance Company, Anthony E. Jones, Automall of Georgia, LLC and Columbia Square Investors, LLC, prepared by East Metro Surveyors & Engineers, Inc., dated November 15, 2001, sealed by E.G. Davis, Georgia RLS No. 2363.

PLAT CABINET D
SLIDE 138 NO. 8

ACTIVITY AND USE LIMITATIONS (AULS) EXHIBITS

CLERK OF SUPERIOR COURT
COLUMBIA COUNTY, GEORGIA

Recorded 09/18/2006 03:45PM

Georgia Intangible Tax Paid: \$0.00

CINDY MASON

Clerk Superior Court, Columbia County
B 05636 P 0289-0294

Deed

Doc: AFF

2006 SEP 18 PM 3:45

CINDY MASON, CLERK

PLEASE Darren G. Meadows
 RETURN TO: Hull, Towill, Norman, Barrett & Salley P.C.
 P. O. Box 1564
 Augusta, GA 30903

STATE OF GEORGIA
 COUNTY OF COLUMBIA

AFFIDAVIT PURSUANT TO THE GEORGIA
 HAZARDOUS SITE RESPONSE ACT
 O.C.G.A. '12-8-97(c) and O.C.G.A. '44-2-20

RE: Property of the **COLUMBIA SQUARE INVESTORS, LLC** described as all that tract or parcel of land lying and being in Columbia County, Georgia, and being more particularly described as follows:

From the Northeast intersection of the right-of-way of Columbia Road (150 foot right-of-way) and the right-of-way of Flowing Wells Road (80 foot right-of-way), go North 38°35' East along the Easterly right-of-way of Flowing Wells Road a distance of 107.8 feet to a point; thence continue along said right-of-way around a curve a lineal distance of 97.59 feet (said lineal distance being the arc of a curve having a radius of 421.9 feet) to an iron pin and the POINT OF BEGINNING; thence continue along said right-of-way following the curvature thereof a lineal distance of 176.21 feet (said lineal distance being the arc of a curve having a radius of 421.9 feet) to an iron pin; thence continue along said right-of-way North 1°23' East a distance of 294.68 feet to an iron pin; thence South 88°32'30" East a distance of 204.65 feet to an iron pin; thence North 1°27'30" East a distance of 168.35 feet to an iron pin lying on the Southerly right-of-way line of Washington Road (100 foot right-of-way); thence South 65°33'45" East along said right-of-way a distance of 32.59 feet to an iron pin; thence South 1°27'30" West a distance of 150.0 feet to an iron pin; thence South 66°22' East a distance of 70.00 feet to an iron pin; thence South 87°52' East 53.50 feet to an iron pin; thence South 44°43'20" East 53.16 feet to an iron pin; thence South 1°23' West a distance of 142.93 feet to an iron pin; thence South 46°59' East a distance of 60.21 feet to an iron pin; thence South 1°23' West a distance of 135.0 feet to an iron pin; thence South 80°42' West a distance of 175.0 feet to an iron pin; thence South 9°18' East a distance of 146.49 feet to an iron pin set on the Northerly right-of-way line of Columbia Road (150 foot right-of-way); thence South 79°12' West along said right-of-way a distance of 30.01 feet to an iron pin; thence North 9°18' West a distance of 147.27 feet to an iron pin; thence South 80°42' West a distance of 150.0 feet to an iron pin; thence South 80°42' West a distance of 125.73 feet to an iron pin and the POINT OF BEGINNING, said tract containing 4.14 acres as shown by Plat for Columbia Square Corporation by Baldwin & Cranston Associates, Inc., dated June 10, 1977, recorded in Deed Book 2879, Pages 123-127.

Vogue Cleaners Site, Georgia HSI #10394

April 26, 2006

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

Columbia Square Investors, LLC
c/o Scott Klosinski, P.C.
#7 George C. Wilson Court
Augusta, GA 30909

Re: Reclassification of Site from Class II to Class V
Hazardous Site Inventory, Site No. 10394
Vogue Cleaners Martinez, Columbia County, Georgia

Dear Mr. Klosinski:

Because corrective action is being performed at the above referenced property in accordance with an approved corrective action plan, EPD is hereby reclassifying it from Class II to Class V and designating it as needing corrective action as provided for in Section 391-3-19-.06(6) of the Rules for Hazardous Site Response.

Within 45 days of this letter, you are required by Section 12-8-97(c) of the Hazardous Site Response Act to file an affidavit stating that your property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. This affidavit is to be filed with the clerk of the superior court of each county in which your property or any part thereof lies and recorded in the clerk's deed records pursuant to O.C.G.A. § 44-2-20 [full copy attached].

Section 12-8-97(f) of the Hazardous Site Response Act also requires that you place the following notice in any deed, mortgage, deed to secure debt, lease, rental agreement or other instrument given or caused to be given by the property owner which creates an interest in or grants a use of the property:

"This property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this property. This notice is provided in compliance with the Georgia Hazardous Site Response Act."

Within 30 days of recording the affidavit, please send a copy of the receipt of the recorded affidavit to the Hazardous Sites Response Program, Georgia Environmental Protection Division, 2 Martin Luther King Jr. Drive, SE, Suite 1462 East, Atlanta, GA 30334.


Section 12-8-97(f) of the Hazardous Site Response Act provides that the requirements for property record notices at O.C.G.A. §12-8-97(b) & (c) shall be stayed by the filing of a petition for a hearing within 30 days of this letter.

Scott Klosinski
April 26, 2006
Page 2

EPD will also publish a notice in the Columbia News-Times and the Augusta Chronicle no sooner than thirty days from the date of this letter announcing that your property has been designated as needing corrective action.

If you have any questions regarding this matter, please contact Amanda Howell at (404) 657-8600.

Sincerely,

A handwritten signature in black ink, appearing to read "Carol A. Couch". The signature is fluid and cursive, with the first name "Carol" being more prominent.

Carol A. Couch, Ph.D.
Director

CAC:ah

Encl: O.C.G.A. §44-2-20 (2 pages)

c: Mr. Robert Poole, Morgan Stanley

File: HSI No. 10394

44-2-20. Recorded affidavits relating to land as notice of facts cited therein; admissibility of such affidavits in evidence; presumption as to facts recited; filing and recording.

(a) Recorded affidavits shall be notice of the facts therein recited, whether taken at the time of a conveyance of land or not, where such affidavits show:

- (1) The relationship of parties or other persons to conveyances of land;
- (2) The relationship of any parties to any conveyance with other parties whose names are shown in the chain of title to lands;
- (3) The age or ages of any person or persons connected with the chain of title;
- (4) Whether the land embraced in any conveyance or any part of such land or right therein has been in the actual possession of any party or parties connected with the chain of title;
- (5) The payment of debts of an unadministered estate;
- (6) The fact or date of death of any person connected with such title;
- (7) Where such affidavits relate to the identity of parties whose names may be shown differently in chains of title;
- (8) Where such affidavits show the ownership or adverse possession of lands or that other persons have not owned such lands nor been in possession of same; or
- (9) Where such affidavits state any other fact or circumstance affecting title to land or any right, title, interest in, or lien or encumbrance upon land.

Any such affidavits may be made by any person, whether connected with the chain of title or not.

44-2-20

PROPERTY

44-2-20

(b) In any litigation over any of the lands referred to and described in any of the affidavits referred to in subsection (a) of this Code section in any court in this state or in any proceedings in any such court involving the title to such lands wherein the facts recited in such affidavits may be material, the affidavits or certified copies of the record thereof shall be admissible in evidence and there shall be a rebuttable presumption that the statements in said affidavits are true. The affidavits or certified copies thereof shall only be admissible as evidence in the event the parties making the affidavits are deceased; they are nonresidents of the state; their residences are unknown to the parties offering the affidavits; or they are too old, infirm, or sick to attend court.

(c) Affidavits referred to in subsections (a) and (b) of this Code section shall be filed by the clerk of the superior court of the county where the land is located and shall contain a caption referring to the current owner and to a deed or other recorded instrument in the chain of title of the affected land. The clerk of the superior court shall record such affidavits, shall enter on the deed or other recorded instrument so referred to the book and page number on which such affidavit may be recorded, and shall index same in the name of the purported owner as shown by such caption in both grantor and grantee indexes in deed records as conveyances of lands are recorded and indexed; and he shall receive the same compensation therefor as for recording deeds to lands. (Ga. L. 1955, p. 614, §§ 1-3; Ga. L. 1982, p. 3, § 44.)

Law reviews. — For article, "Some Re-scission Problems in Truth-In-Lending, as Viewed From Georgia," see 7 Ga. St. B.J. 315 (1971).

JUDICIAL DECISIONS

Section will be strictly construed by the court. *Dollar v. Thompson*, 212 Ga. 831, 96 S.E.2d 493 (1957).

Contents of affidavit. — Properly recorded affidavit "shall" contain a caption showing the information enumerated in this section. This is made mandatory by the use of the word "shall," rather than permissive language. *Dollar v. Thompson*, 212 Ga. 831, 96 S.E.2d 493 (1957).

Section provides an exception to both the hearsay rule and to § 24-9-1, relating to competency of witnesses. *King v. King*, 238 Ga. 268, 232 S.E.2d 549 (1977).

Affidavit admissible only if affiant unavailable. — Affidavits shall be admissible only when the person making them is not available as a witness for stated reasons. *Dollar v. Thompson*, 212 Ga. 831, 96 S.E.2d 493 (1957).

Cited in *Parker v. Adamson*, 109 Ga. App. 172, 135 S.E.2d 487 (1964); *Jones v. Van Vleck*, 224 Ga. 796, 164 S.E.2d 724 (1968); *Crane v. Gaddis*, 224 Ga. 804, 164 S.E.2d 844 (1968); *Minor v. Ray*, 122 Ga. App. 531, 177 S.E.2d 842 (1970).



APPENDIX B
PUBLIC /PRIVATE DRINKING WATER WELL SURVEY

Well and Water Resources Survey Results

**Former Vogue Cleaners
4020 Washington Road
Martinez, Columbia County, Georgia
HSI # 10394**

Latitude: 33° 30' 35.69"
Longitude: 82° 06' 13.07"

A well and water resources survey was conducted to identify any public and non-public water supply sources within a 3-mile radius of the subject property. The survey included:

1. A search by the United States Geological Survey (USGS) from the Ground Water Database;
2. A search of the GAEPD water supply database;
3. A field reconnaissance within the vicinity of the subject site;
4. Interviews with local official.

The field reconnaissance included a drive-by search for wells within the 0.25-mile radius of the subject site as well as a specific search for each of the wells found in the USGS Database. No wells were observed within or reported within a 0.25-mile radius of the site. One (1) private water supply well was observed and reported within a one (1)-mile radius of the Subject Property. The nearest surface water body to the Subject Property is 1,444 feet north-west from the subject site.

WITHIN 3-MILE RADIUS

FACILITY NAME	NUMBER OF WELLS	WELL ID	ADDRESS	CURRENT USE	LOCATION
Annie Anderson	1	unknown	114 Shaw Street	Unknown	0.56 Miles NE
Unidentified	1	25BB25	Unknown	Unknown	2.77 Miles SW
Unidentified	1	28BB15	Unknown	Unknown	2.96 Miles South
Unidentified	1	28BB18	Unknown	Unknown	2.85 Miles South
Unidentified	1	28BB26	Unknown	Unknown	2.99 Miles SW
Unidentified	1	29BB43	Unknown	Unknown	2.98 Miles South
Unidentified	1	28BB28	Unknown	Unknown	2.92 Miles SW
Unidentified	1	29BB44	Unknown	Unknown	2.88 Miles SW
Unidentified	1	29BB54	Unknown	Unknown	2.90 Miles South
Unidentified	1	29BB42	Unknown	Unknown	2.82 Miles SW
Unidentified	1	29BB21	Unknown	Unknown	2.72 Miles South
Unidentified	1	29BB46	Unknown	Unknown	2.71 Miles South
Unidentified	1	29BB93	Unknown	Unknown	2.72 Miles South
Unidentified	1	29BB92	Unknown	Unknown	2.67 Miles South
Unidentified	1	29BB64	Unknown	Unknown	2.61 Miles South

FACILITY NAME	NUMBER OF WELLS	WELL ID	ADDRESS	CURRENT USE	LOCATION
Unidentified	1	29BB62	Unknown	Unknown	2.76 Miles South
Unidentified	1	29BB34	Unknown	Unknown	2.71 Miles SW
Unidentified	1	29BB41	Unknown	Unknown	2.46 Miles South
Unidentified	1	29BB52	Unknown	Unknown	2.47 Miles SW
Unidentified	1	29BB45	Unknown	Unknown	2.41 Miles South
Unidentified	1	29BB47	Unknown	Unknown	2.49 Miles SW
Unidentified	1	29BB36	Unknown	Unknown	2.26 Miles SW
Unidentified	1	29BB33	Unknown	Unknown	2.33 Miles SW
Unidentified	1	29BB51	Unknown	Unknown	2.22 Miles SE
Windy Acres Mobile Home Park	1	28BB106	Old South Belair Road	Unknown	2.83 Miles SW
Windy Acres Mobile Home Park	1	28BB105	Old South Belair Road	Unknown	2.81 Miles SW
Unidentified	1	29BB56	Unknown	Unknown	1.02 Miles South
Unidentified	1	28CC02	Unknown	Unknown	2.20 Miles SW
Unidentified	1	28CC01	Unknown	Unknown	2.24 Miles SW
Unidentified	1	29CC30	Unknown	Unknown	2.42 Miles NW

Site Investigations were completed after review of Federal and State databases. The purpose of this investigation was to:

1. Determine whether the identified water wells are currently used as a potable source of water; and
2. Complete a hydrogeologic evaluation to determine whether a hydrogeologic connection is present between groundwater located at the Former Vogue Cleaners site (subject property) and the suspected water wells.

SITE INVESTIGATION

On August 8, 2013 Genesis Project, Inc. completed an investigation of suspected water well on the property identified as 114 Shaw Road. The suspected water well is associated with a resident's home. Several attempts have been made to contact the owner; however no contact has been established over time. Following the site inspection, an interview was conducted with a representative of the Columbia County Water Board Authority. This interview confirmed that the property is being supplied by city water.

A hydrogeologic evaluation was conducted using data from the subject property as well as information from the Martinez Quad, Georgia USGS topographic map (2008). A summary of this evaluation is as follows:

1. The suspected water wells are located to the south, southeast, southwest and northeast of the subject property.
2. No public drinking water wells are within 0.5 miles of the subject property.
3. Available topographical information as well as the direction of groundwater flow on-site indicates that twenty-nine (29) of the suspected wells are not down gradient of the subject property.
4. The one (1) private water well located within a one (1) mile radius is not hydrogeologically connected with the Property, and is not a potential receptor of the impacted groundwater from the former Vogue Cleaners.

These features are highlighted on the Radius Map (Figure 1).

Based on these observations, Genesis Project, Inc. has concluded that if these wells still exist, they would not be considered hydrogeologically connected to the subject property.

Conclusion

In conclusion, no drinking water wells were identified within 3-miles of the subject property. In addition, suspected wells identified in the USGS database are not considered to be potential receptors of the impacted groundwater present on the subject property.

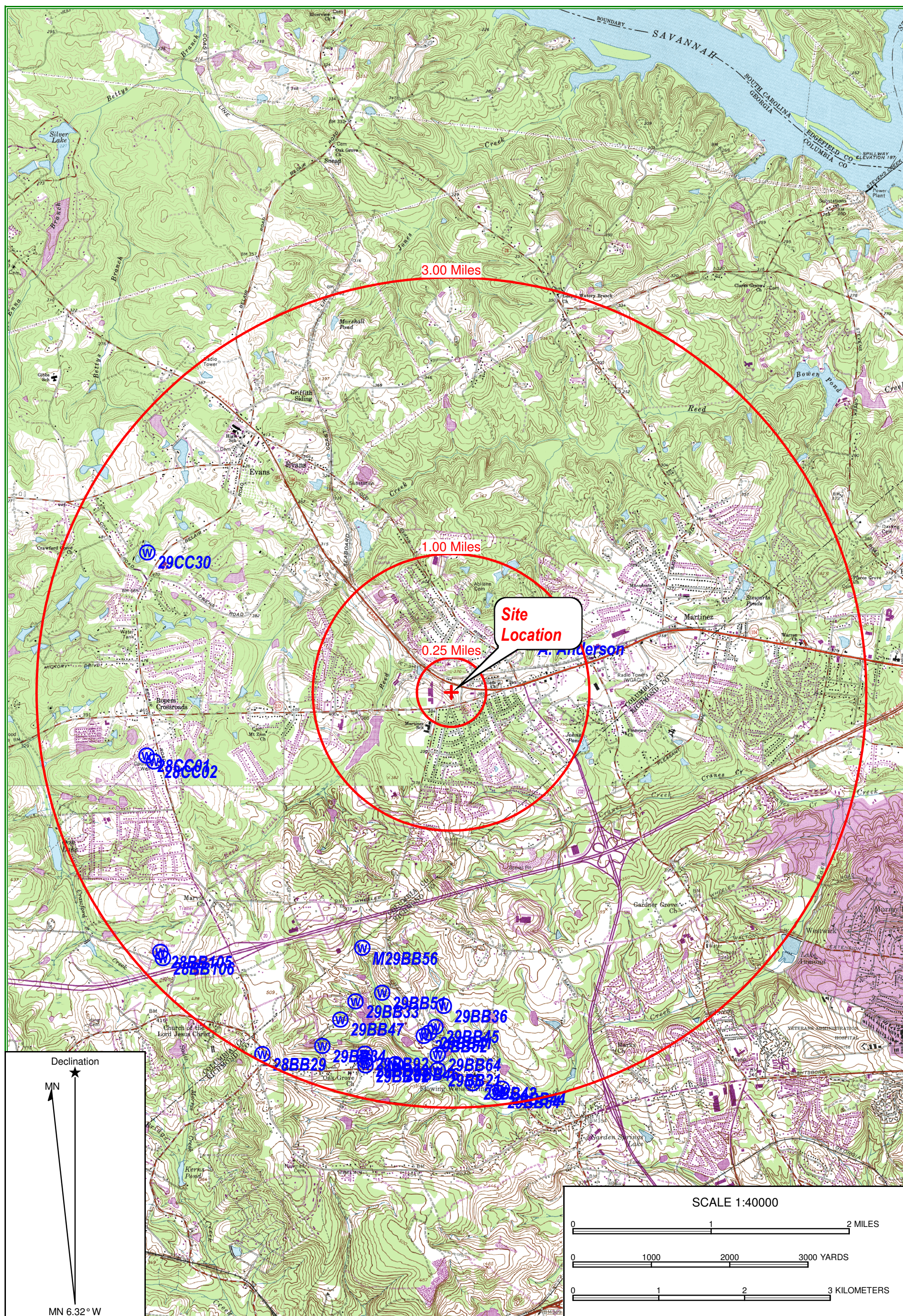


Figure 1: Radius Map
Former Vogue Cleaners
Martinez, Georgia

Location: 033° 30' 46.18" N 082° 06' 12.36" W

Map: MARTINEZ QUAD

**FAX COVER SHEET**

U.S. Department of the Interior
U.S. Geological Survey
Georgia District Office
1770 Corporate Drive, Suite 5000
Norcross, GA 30093

Phone: 678-924-6700
Fax: 678-924-6710
<http://www.ga.usgs.gov>
Total Number of Pages Including Cover Sheet: 3

To: Tiffany Messier

Date: 10252013

Office: Genesis Project Inc

From: Gary Holloway

Fax: (770) 319-7219

Phone: (678) 924-6655

Phone: (770) 319-7217

E-mail: ghollowa@usgs.gov

Message:

The ground-water database search you requested for a radius of 3 miles from 333035.69 0820613.07 is enclosed.

[illegible]



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:


Site Information

Geographic Area:

Georgia

GO

Click to hide News Bulletins

- August 23, 2013
- Read the [Mobile Site Tutorial](#) Try it (<http://m.waterdata.usgs.gov>) from your mobile device!
- New improved user interface.
- [Full News](#) 

Site Inventory for Georgia

Click to hide state-specific text

- All times for Georgia stations are Eastern Standard Time.
- [USGS Water Resources of Georgia](#): the place to start for all USGS water information in Georgia.
- Sign up for [Georgia Water Science Center E-mail Notices](#): publication releases, gage shutdown notifications, and so forth
- Sign up for [custom Water Alerts by text or email](#)
- Additional information:
 - [Annual data report--approved data online from the 2006 water year to current.](#)
 - [Instantaneous Data Archive](#) for intra-day discharge data prior to October 1, 2007
 - [Low-flow statistics](#) for selected stations
 - [Flood-frequency information](#) for selected stations

Site Selection Results -- 33 sites found

lat_long_bounding_box

=

Position	Latitude	Longitude
Corner 1	33°33'14"	82°09'27"
Corner 2	33°27'53"	82°03'05"

Position	Latitude	Longitude
Coordinates are entered as Degrees-Minutes-Seconds (DMS). DMS values are converted to Decimal degrees using NAD83 as the datum. Make your bounding box bigger if you are using NAD27 Datum for your DMS values		

[Save file of selected sites](#) to local disk for future upload

Data for individual sites can be obtained by selecting the site number below

Agency	Site Number	Site Name
<input type="text"/>	<input type="text"/>	<input type="text"/>
USGS	02196486	REED CREEK (SR 104) NEAR EVANS, GA
USGS	02196488	REED CREEK AT GA 28 NEAR MARTINEZ, GA
USGS	332755082073701	28BB25
USGS	332756082073501	28BB15
USGS	332756082073502	28BB18
USGS	332757082075401	28BB26
USGS	332759082053801	29BB43
USGS	332805082080101	28BB28
USGS	332806082055101	29BB44
USGS	332806082055201	29BB54
USGS	332809082060501	29BB42
USGS	332812082074201	28BB27
USGS	332813082062001	29BB21
USGS	332815082063901	29BB46
USGS	332816082065201	29BB93
USGS	332817082065201	29BB92
USGS	332819082062401	29BB64
USGS	332819082065201	29BB62
USGS	332819082073901	28BB29
USGS	332822082071201	29BB34

Agency	Site Number	Site Name
USGS	332827082062401	29BB41
USGS	<u>332827082062501</u>	29BB52
USGS	332829082062101	29BB45
USGS	<u>332832082070401</u>	29BB47
USGS	332837082061701	29BB36
USGS	<u>332839082065701</u>	29BB33
USGS	332842082064501	29BB51
USGS	<u>332855082082401</u>	28BB106
USGS	332856082082501	28BB105
USGS	<u>332859082065401</u>	29BB56
USGS	333008082082701	28CC02
USGS	<u>333011082083101</u>	28CC01
USGS	333128082045601	29CC30

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

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[Plug-Ins](#)

[FOIA](#)

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[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Site Inventory -- 33 sites found

URL: http://waterdata.usgs.gov/ga/nwis/inventory?nw_longitude_va=82_09_27&nw_latitude_va...



Page Contact Information: [Georgia Water Data Maintainer](#)

Page Last Modified: 2013-10-23 12:03:08 EDT

0.39 0.33 vaww01

Tiffany J. Messier

From: Noakes, Bo <Bo.Noakes@dnr.state.ga.us>
Sent: Friday, October 18, 2013 2:12 PM
To: Tiffany J. Messier
Subject: RE: Public/Private Well Research
Attachments: Wellmap.pdf

Here is the well map that you requested.

In the future we will not be able to do well maps for the general public due to being short staffed.

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

Bo Noakes GISP

GIS Specialist III

Georgia Department of Natural Resources

Land Protection Branch

From: Tiffany J. Messier [<mailto:tmessier@genproject.com>]
Sent: Wednesday, October 16, 2013 1:53 PM
To: Noakes, Bo
Subject: Public/Private Well Research

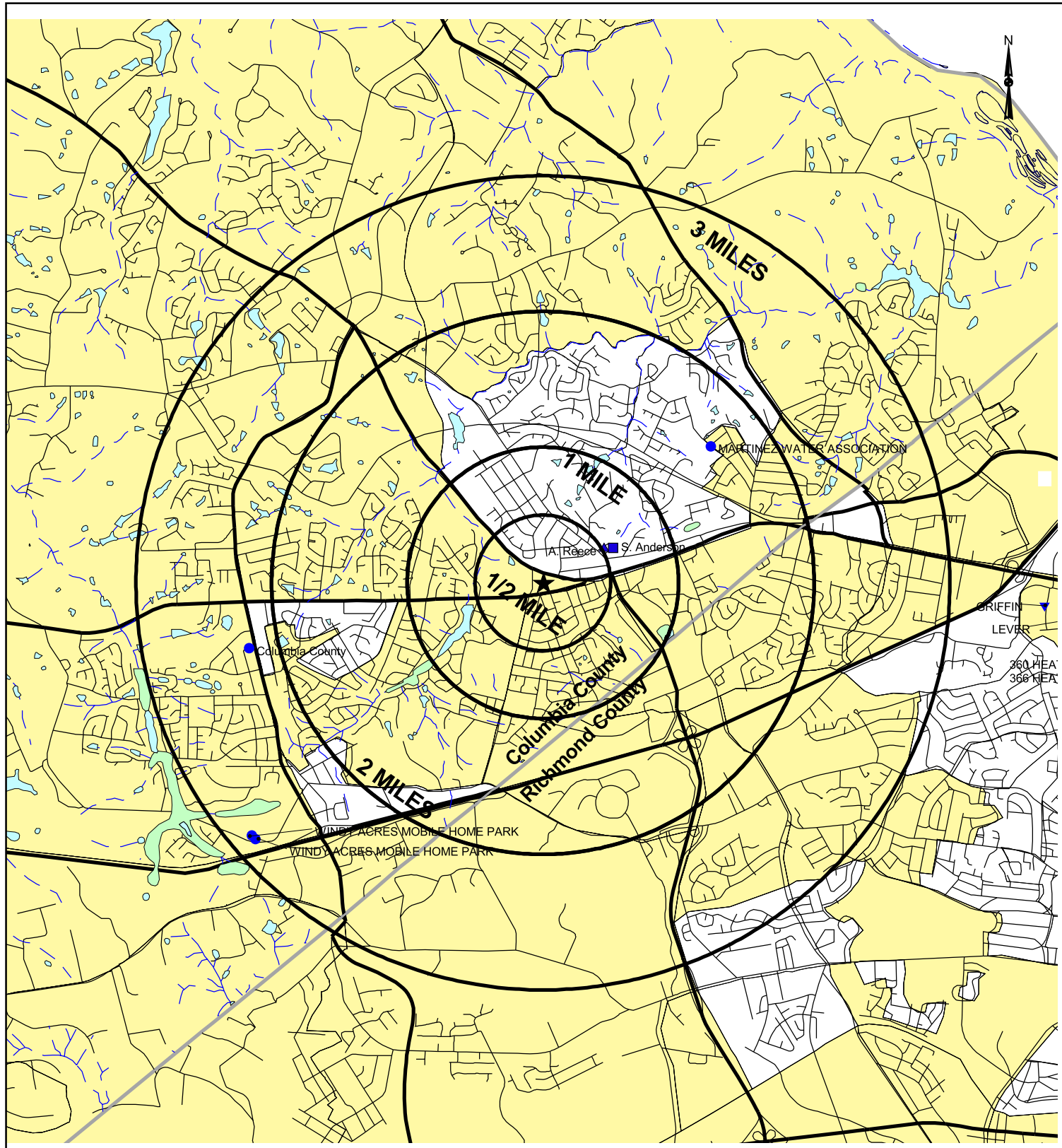
Mr. Noaks- We are conducting a Compliance Status report for an HSI site located at 4020 Washington Road, Martinez, GA. The coordinates are as follows:

Lat 33 30 35.69

Long 82 06 13.07

Could you please located and document any public or private water wells within a three (3) mile radius.

Tiffany Messier
Project Geologist
Genesis Project, Inc.
770-319-7217 (office)
770-391-7219 (fax)
770-241-6321 (cell)



- Roads
- State and US Highways
- Interstate Highways
- Rivers/Streams
- Lake/Pond
- Swamp/Marsh
- Census Block Group Boundaries
- Census Block Group with >zero domestic well
- Public Supply Well
- Domestic Well
- Irrigation Well

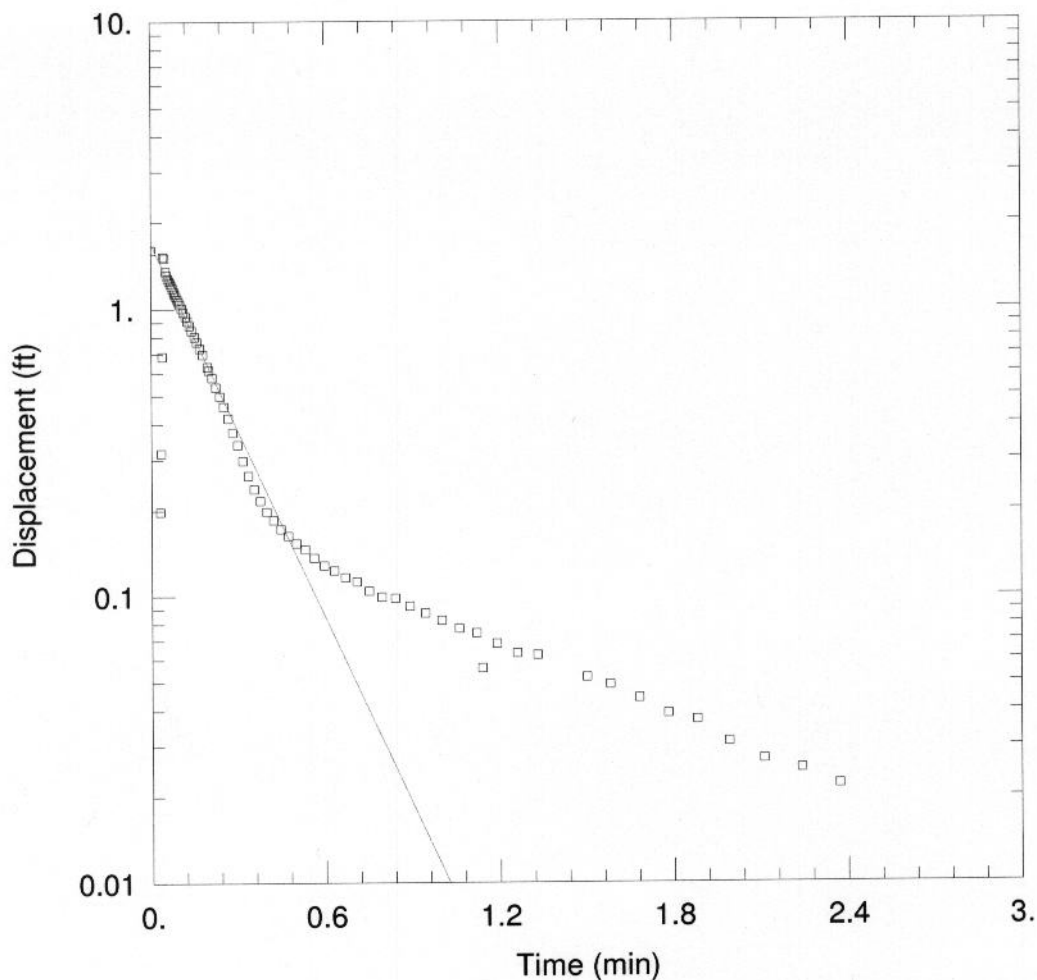
Vogue Cleaners
HSI # 10394
4020 Washington Road
Martinez, Columbia County

33 30' 35.69" 82 06 13.07"
Scale: 1 inch = 1 mile

Sources: Wells from USGS GWSI (1999); EPD WRB Non-Municipal Wells (1997);
 EPD HWMB field surveys (1999); Surface Water Intakes from EPD GSB DR96-27(1996);
 Roads, Rivers, Wetlands from Georgia DOT (1993); Census data from U.S. Bureau of Census (1990)

APPENDIX C
SUPPLEMENTAL DATA
In-situ Permeability Testing
Fate and Transport Modeling
Vapor Intrusion Evaluation

IN-SITU PERMEABILITY TESTING EVALUATION



MW-22 SLUG TEST

Data Set: G:\Morgan Stanley\CSR\Slug Test - Receptor Survey\MW-22SO2.aqt
 Date: 04/04/13 Time: 08:56:26

PROJECT INFORMATION

Company: Genesis Project
 Client: Vogue
 Location: Martinez, GA
 Test Well: MW-22 OUT
 Test Date: 9/2011

AQUIFER DATA

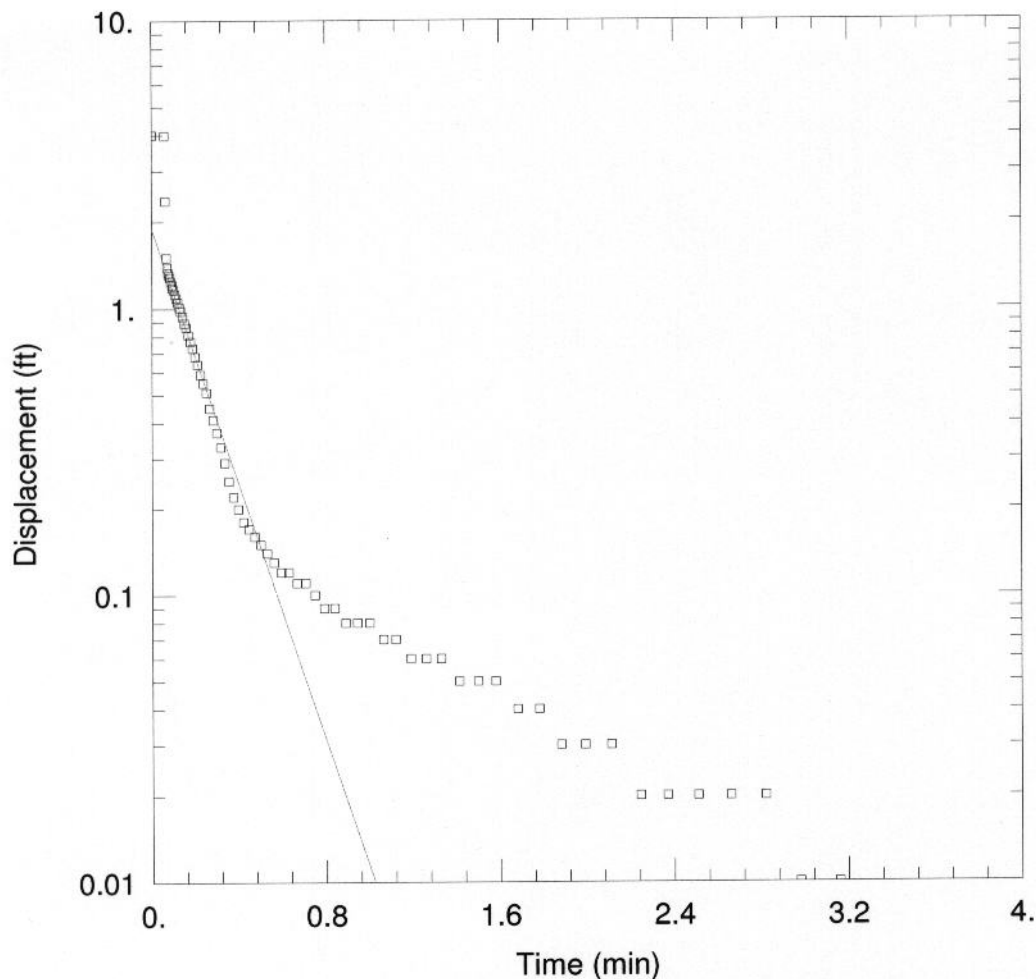
Saturated Thickness: 20. ft Anisotropy Ratio (K_z/K_r): 0.5

WELL DATA (New Well)

Initial Displacement: 1.6 ft Static Water Column Height: 1. ft
 Total Well Penetration Depth: 15. ft Screen Length: 10. ft
 Casing Radius: 0.0833 ft Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.22

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 $K = 0.007066$ cm/sec $y_0 = 1.686$ ft



WELL TEST ANALYSIS

Data Set: G:\Morgan Stanley\CSR\Slug Test - Receptor Survey\MW-22SO1.aqt
 Date: 04/04/13 Time: 08:58:19

PROJECT INFORMATION

Company: Genesis Project
 Client: Vogue
 Location: Martinez, GA
 Test Well: MW-22 OUT 2
 Test Date: 9/2011

AQUIFER DATA

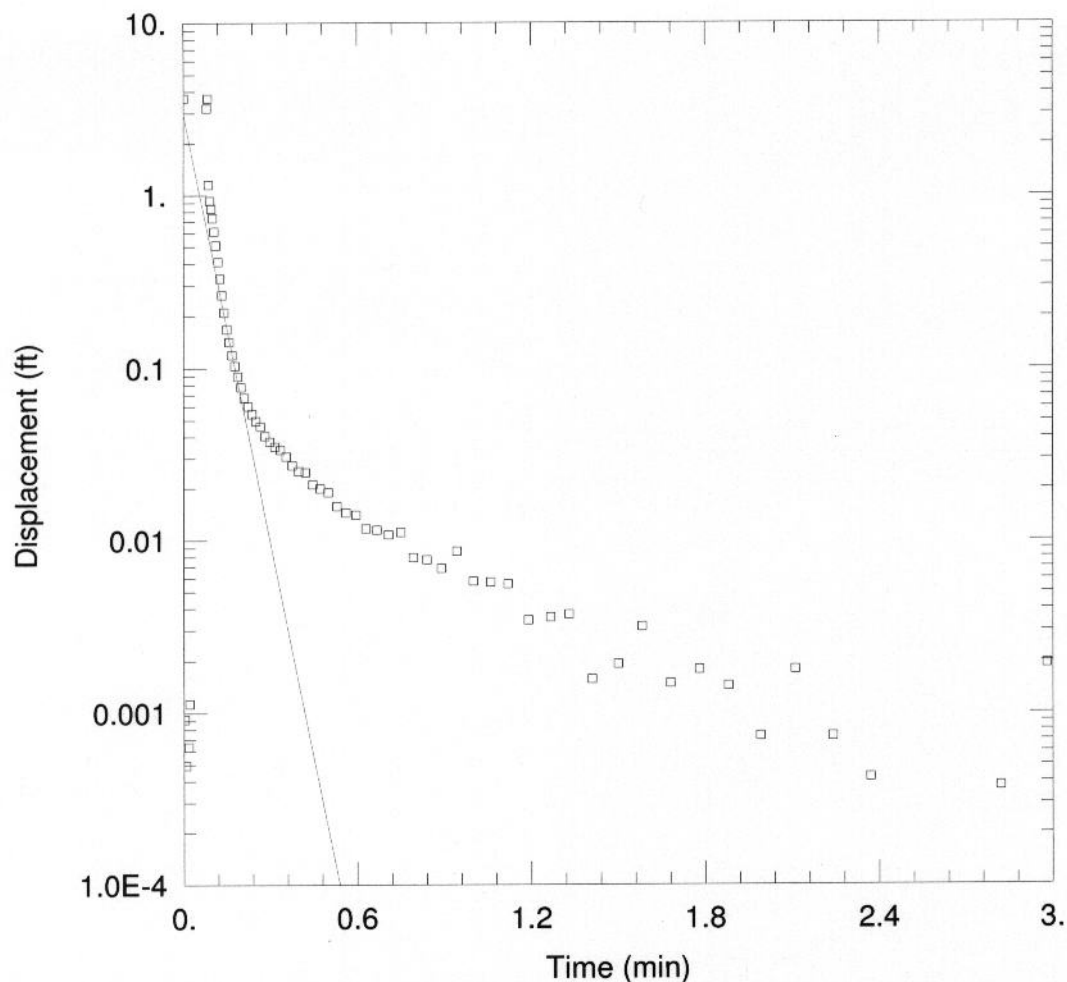
Saturated Thickness: 20. ft Anisotropy Ratio (K_z/K_r): 0.5

WELL DATA (MW-22)

Initial Displacement: 4. ft Static Water Column Height: 10. ft
 Total Well Penetration Depth: 12.5 ft Screen Length: 10. ft
 Casing Radius: 0.0833 ft Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.22

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 $K = 0.00694$ cm/sec $y_0 = 1.885$ ft



WELL TEST ANALYSIS

Data Set: G:\Morgan Stanley\CSR\Slug Test - Receptor Survey\POD-1SO.aqt

Date: 04/04/13

Time: 08:53:51

PROJECT INFORMATION

Company: Genesis Project

Client: Vogue

Location: Martinez, GA

Test Well: POD-1 OUT

Test Date: 9/2011

AQUIFER DATA

Saturated Thickness: 20. ft

Anisotropy Ratio (K_z/K_r): 0.5

WELL DATA (POD-1)

Initial Displacement: 3.65 ft

Total Well Penetration Depth: 12.5 ft

Casing Radius: 0.083 ft

Static Water Column Height: 120. ft

Screen Length: 10. ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.22

SOLUTION

Aquifer Model: Unconfined

$K = 0.02415$ cm/sec

Solution Method: Bouwer-Rice

$y_0 = 2.932$ ft

FATE & TRANSPORT MODELING EVALUATION

**Contaminant Fate and Transport Model
BIOCHLOR Version 2.2**

**Former Vogue Cleaners
Columbia Square Shopping Center
Martinez, Columbia County, Georgia
HSI No. 10394**

INTRODUCTION

Genesis Project utilized BIOCHLOR in order to simulate contaminant fate and transport at the former Vogue Cleaners located in Martinez, Georgia. The objective of the modeling process was to determine the theoretical maximum concentration of tetrachloroethene (PCE) in former source area that should not impact groundwater at the point of demonstration (POD) above Type 2 Risk Reduction Standards. As presented in the CSR, the point of demonstration consists of monitor well POD-1, which is located at the downgradient property boundary of the Columbia Square Shopping Center and the Monterrey Mexican Restaurant.

MODEL ASSUMPTIONS

The model was constructed with the following assumptions and input data is presented on Tables 1 & 2.

- The objective was to evaluate the concentration of PCE that may remain in the source area and not exceed current Type 2 Risk Reduction Standards for groundwater (19 ug/L).
- PCE was the only COC addressed during calibration since it was the only COC present in downgradient monitor wells.
- The modeled aquifer consists of unconsolidated sediments above the bedrock surface located approximately 35 feet bls.
- The source area consists of the former dry cleaning equipment and estimated to be 10 feet in width
- The thickness of the source area is estimated to be 10 feet thick and is based on data from MW-8 and MW-8D in 1999.
- Advection – Dispersion – Adsorption: Parameters were either site specific or acceptable Georgia peer reviewed literature values (Table 1)

- Biotransformation: Parameters were based on average BIOCHLOR literature values.
- General Parameters: The source is assumed to be a continuous planar source;

MODEL CALIBRATION

- The model calibration was developed to estimate the actual fate and transport of PCE using groundwater analysis results from March 1999. This data was selected since it was the last data collected prior to active corrective action activities at the site.
- The simulation time was set to 4 years based on a source material termination date of 1996, which is consistent with the timeframe when dry cleaning activities ceased at this location.
- The source well consisted of monitor well MW-2 (1,800 ug/L) and target well was monitor well MW-5 (50 ug/L).
- Calibration consisted of adjusting adsorption criteria including soil bulk density and the fraction of organic carbon. Soil bulk density went from a default value to empirical data collected in previous investigations. The Fraction of Organic Carbon was adjusted from actual data results to a EPD default value. All of these modifications are shown on the BioChlor Input Data Table (attached).
- Results of the calibration are presented below.

MODEL PREDICTION

Once the model was calibrated to the target well MW-5, prediction simulations were completed to determine what concentration of the COCs in the source area would not result in a the point of demonstration (POD-1) above the State of Georgia Type 2 Risk Reduction Standards (Section 6.0). Model Assumptions included:

- All criteria remained the same;
- General Parameters: The source is assumed to be a continuous planar source
- Source area concentrations were modified for each COC to determine what concentration may remain in source area groundwater and not exceed risk criteria at the point of demonstration well POD-1.

The COCs considered in this exercise were:

Compound	Risk Criteria at Point of Demonstration
Tetrachloroethene	19 ug/L
Trichloroethene	5 ug/L
Cis-1,2 Dichloroethene	70 ug/L

Simulations were completed for both 10 years and 20 years. Additional simulations were not necessary since the models stabilized during those simulations. The models predicted that the following source concentrations for each COC would not cause an impact to groundwater above the Type 2 RRS.

Compound	Acceptable Source Area Concentration
Tetrachloroethene	600 ug/L
Trichloroethene	150 ug/L
Cis-1,2 Dichloroethene	2,000 ug/L

SUMMARY

Groundwater contaminate fate and transport modeling was completed for the Vogue Cleaners site to evaluate the concentration of source area concentrations that would not results in an impact at the point of demonstration. These values will be used as the groundwater monitoring criteria for the source area during the post closure-monitoring period.

Table 1
 BIOCLOR INPUT DATA
 Former Vogue Cleaners
 Washington Road, Martinez, GA
 October 2013

Input Parameters	Symbol	Initial Value	Adjusted Value	Units	Comments
ADVECTION					
Seepage Velocity		194.2	-	ft/yr	Calculated by Biochlor
Hydraulic Conductivity		0.013	-	cm/sec	Average of in-situ permeability testing
Hydraulic Gradient		0.0034	-	ft/ft	Calculated via 3-point problem (MW-2R, MW-5, MW-7)
Porosity		0.23	-	dim.less	Taken from Analytical Results (Qore March 1999)
DISPERSION					
Longitudinal Dispersivity		15	-	ft	10% of plume length in 1999 MW-2 to MW-6 (~150 feet)
Transverse Dispersivity		1.5	-	ft	$\alpha_y = \alpha_x * 0.10$
Vertical Dispersivity		1.50E-01	-	ft	$\alpha_z = \alpha_x * 0.05$
ADSORPTION					
Retardation Factor		2.27	4.05	dim.less	Calculated by Biochlor
Soil Bulk Density		1.6	1.8	kg/L	Average of analytical results (Qore - March 1999)
Partition Coefficient		Various	-	L/kg	Values taken from EPD Reference documentation
Fraction Organic Carbon		0.0755	0.003	dim.less	Average Value from imperial data (Appendix _)
BIOTRANSFORMATION					
Zone 1					
1st Order Decay Coefficient or Solute half-life					
PCE-TCE		1.2	-	year	Conservative Values taken from Biochlor Guidance
TCE-DCE		0.9	-	year	Conservative Values taken from Biochlor Guidance
DCE-VC		3.3	-	year	Conservative Values taken from Biochlor Guidance
VC-ETH		2.6	-	year	Conservative Values taken from Biochlor Guidance

Table 2
 BIOCHLOR INPUT DATA
 Former Vogue Cleaners
 Wahington Road, Martinez, GA
 October 2013

Input Parameters	Symbol	Initial Value	Adjusted Value	Units	Comments
GENERAL					
Model Area Length		150	-	ft	Approximate Length of Dissolved Plume
Model Area Width		30	-	ft	Approximate Width of Dissolved Plume
Simulation Time		9	-	ft	Approximate Time from Equipment Removal to Sampling Date
SOURCE DATA					
Source Thickness		15	10	ft	
SourceOption		Continuous Single Planar	-	ft	
Source Area Width		10	-	ft	Approximate Width of Equipment Area
PCE Source Concentration		1.8	-	mg/L	Results from MW-2 in March 1999
PCE Concentration Downgradient		0.05	-	mg/L	Results from MW-5 in March 1999
FIELD DATA	Conc (mg/L)	Distance from Source (ft)			Comments
MW-5 PCE		72			
POD-1 PCE		78			
Property Line		85			

Version 2.2
Excel 2000

Data Input Instructions:

115 → 1. Enter value directly...or
or 2. Calculate by filling in gray
0.02 cells. Press Enter, then
(To restore formulas, hit "Restore Formulas" button) C
Variable* → Data used directly in model.

Test if
Biotransformation
is Occurring

Natural Attenuation Screening Protocol

TYPE OF CHLORINATED SOLVENT:

Ethenes
Ethanes

1. ADVECTION

Seepage Velocity*	Vs	194.2	(ft/yr)
or			
Hydraulic Conductivity	K	1.3E-02	(cm/sec)
Hydraulic Gradient	i	0.0034	(ft/ft)
Effective Porosity	n	0.23	(-)

2. DISPERSION

Alpha x*	15	(ft)	Calc. Alpha x
(Alpha y) / (Alpha x)*	1.5	(-)	
(Alpha z) / (Alpha x)*	2.E-01	(-)	

3. ADSORPTION

Retardation Factor*	→ R	
or		
Soil Bulk Density, rho	1.8 (kg/L)	
Fraction Organic Carbon, f _{oc}	3.0E-3 (-)	
Partition Coefficient	K _{oc}	
PCE	426 (L/kg)	11.00 (-)
TCE	130 (L/kg)	4.05 (-)
DCE	125 (L/kg)	3.93 (-)
VC	30 (L/kg)	1.69 (-)
ETH	302 (L/kg)	8.09 (-)

Common R (used in model)* = 4.05

4. BIOTRANSFORMATION

Zone 1		λ (1/yr)	half-life (yrs)	Yield
PCE → TCE	0.578	1.20	0.79	
TCE → DCE	0.770	0.90	0.74	
DCE → VC	0.210	3.30	0.64	
VC → ETH	0.267	2.60	0.45	

Zone 2		λ ₁ (1/yr)	half-life (yrs)
PCE → TCE	0.000		
TCE → DCE	0.000		
DCE → VC	0.000		
VC → ETH	0.000		

5. GENERAL

Simulation Time*
Modeled Area Width*
Modeled Area Length*
Zone 1 Length*
Zone 2 Length*

9	(yr)
30	(ft)
150	(ft)
150	(ft)
0	(ft)

Diagram illustrating the dimensions of a projectile. The length is labeled L and the width is labeled W . A text box below the diagram states: Zone 2 = $L - \text{Zone 1}$.

6. SOURCE DATA

Source Options

Source Thickness in Sat. Zone* 10 (ft)

Width* (ft)	10
-------------	----

Conc. (mg/L) ^x	C1
PCE	1.8
TCE	
DCE	
VC	
ETH	

7. FIELD DATA FOR COMPARISON

PCE Conc. (mg/L)
TCE Conc. (mg/L)
DCE Conc. (mg/L)
VC Conc. (mg/L)
ETH Conc. (mg/L)

Distance from Source (ft)

Date Data Collected

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE

RUN ARRAY

Help

Formulas for V_s , R_s

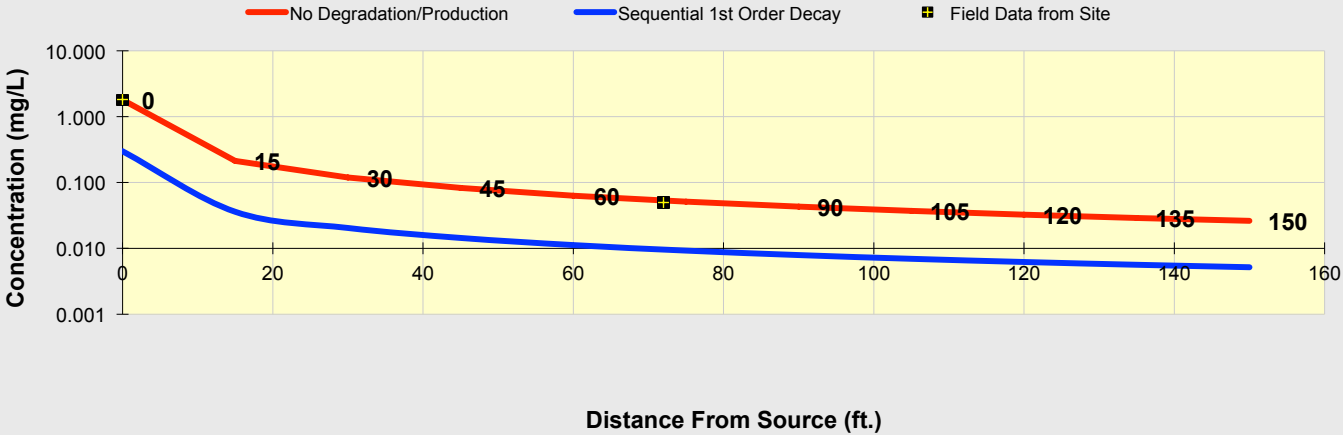
RESET

SEE OUTPUT

Paste Example

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

PCE	Distance from Source (ft)										
	0	15	30	45	60	75	90	105	120	135	150
No Degradation	1.800	0.213	0.119	0.082	0.063	0.051	0.043	0.037	0.032	0.029	0.026
Biotransformation	0.2975	0.036	0.020	0.014	0.011	0.009	0.008	0.007	0.006	0.006	0.005
Monitoring Well Locations (ft)											
Field Data from Site	0					72					
	1.800					0.050					



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

9.0 Years

Log



Linear

Return to
Input

To All

To Array

Version 2.2
Excel 2000

10 - Year Prediction

Run Name

115 → 1. Enter value directly....or
or
0.02 → 2. Calculate by filling in gray cells. Press Enter, then
(To restore formulas, hit "Restore Formulas" button)
Variable* → Data used directly in model.

Test if
Biotransformation
is Occurring

Natural Attenuation Screening Protocol

Ethenes
Ethanes

Seepage Velocity*

Seepage Velocity*	Vs	194.2	(ft/yr)
or			
Hydraulic Conductivity	K	1.3E-02	(cm/sec)
Hydraulic Gradient	i	0.0034	(ft/ft)
Effective Porosity	n	0.23	(-)

$$\frac{(\text{Alpha } y) / (\text{Alpha } x)^*}{(\text{Alpha } z) / (\text{Alpha } x)^*}$$
Retardation Factor^a

Soil Bulk Density, ρ	1.8	(kg/L)	
Fraction Organic Carbon, f_{oc}	$3.0E-3$	(-)	
Partition Coefficient	K_{oc}		
PCE	426	(L/kg)	11.00 (-)
TCE	130	(L/kg)	4.05 (-)
DCE	125	(L/kg)	3.93 (-)
VC	30	(L/kg)	1.70 (-)
ETH	302	(L/kg)	8.09 (-)

Common R (used in model)* = 4.05

Zone 1

Zone 1		λ (1/yr)	half-life (yrs)	Yield
PCE	TCE	0.578	1.20	0.79
TCE	DCE	0.770	0.90	0.74
DCE	VC	0.210	3.30	0.64
VC	ETH	0.267	2.60	0.45

Zone 2		λ (1/yr)	half-life (yrs)
PCE	TCE	0.000	
TCE	DCE	0.000	
DCE	VC	0.000	
VC	ETH	0.000	

Simulation Time*

Modeled Area Width*
Modeled Area Length*
Zone 1 Length*
Zone 2 Length*

10	(yr)
30	(ft)
150	(ft)
150	(ft)
0	(ft)

Source Options

Source Thickness in Sat. Zone* 10 (ft)

Width* (ft)	10
-------------	----

Conc. (mg/L) ^x	C1
PCE	.6
TCE	.15
DCE	2.0
VC	
ETH	

PCE Conc. (mg/L)

TCE Conc. (mg/L)					.005				
DCE Conc. (mg/L)					.07				
VC Conc. (mg/L)									
ETH Conc. (mg/L)									
Distance from Source (ft)	0				78				
Date Data Collected	1999								

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE

RUN ARRAY

Help

Formulas for V_s , R_s

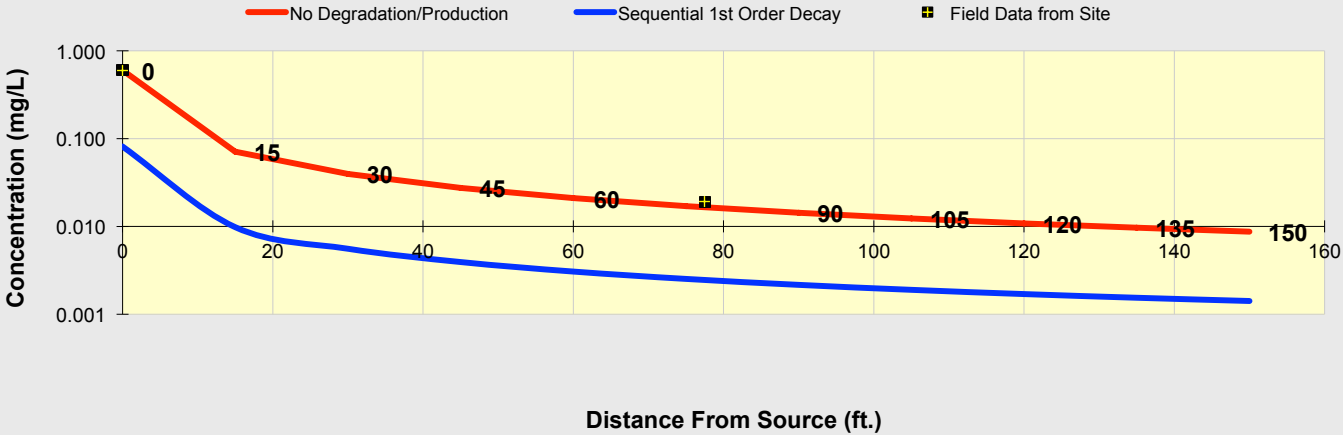
RESET

SEE OUTPUT

Paste Example

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

PCE	Distance from Source (ft)										
	0	15	30	45	60	75	90	105	120	135	150
No Degradation	0.600	0.071	0.040	0.027	0.021	0.017	0.014	0.012	0.011	0.010	0.009
Biotransformation	0.0812	0.010	0.006	0.004	0.003	0.003	0.002	0.002	0.002	0.002	0.001
Monitoring Well Locations (ft)											
Field Data from Site	0					77.5					
	0.600					0.019					



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

10.0 Years

Log



Linear

Return to
Input

To All

To Array

Version 2.2
Excel 2000

20-Year Prediction

Run Name

115 → 1. Enter value directly....or
or
0.02 → 2. Calculate by filling in gray cells. Press Enter, then
(To restore formulas, hit "Restore Formulas" button)
Variable* → Data used directly in model.

Test if
Biotransformation
is Occurring

Natural Attenuation Screening Protocol

TYPE OF CHLORINATED SOLVENT:

Ethenes
Ethanes

1. ADVECTION

Seepage Velocity*	Vs	194.2	(ft/yr)
or			
Hydraulic Conductivity	K	1.3E-02	(cm/sec)
Hydraulic Gradient	i	0.0034	(ft/ft)
Effective Porosity	n	0.23	(-)

2. DISPERSION

Alpha x*	15	(ft)	Calc. Alpha x
(Alpha y) / (Alpha x)*	1.5	(-)	
(Alpha z) / (Alpha x)*	2.E-01	(-)	


3. ADSORPTION

Retardation Factor*			R
Soil Bulk Density, rho	1.8	(kg/L)	
Fraction Organic Carbon, f _{oc}	3.0E-3	(-)	
Partition Coefficient	K _{oc}		
PCE	426	(L/kg)	11.00 (-)
TCE	130	(L/kg)	4.05 (-)
DCE	125	(L/kg)	3.93 (-)
VC	30	(L/kg)	1.70 (-)
ETH	302	(L/kg)	8.09 (-)

Common R (used in model)* = 4.05

4. BIOTRANSFORMATION

Zone 1		λ (1/yr)	half-life (yrs)	Yield
PCE	TCE	0.578	1.20	0.79
TCE	DCE	0.770	0.90	0.74
DCE	VC	0.210	3.30	0.64
VC	ETH	0.267	2.60	0.45

Zone 2			λ (1/yr)	half-life (yrs)
PCE	→ TCE		0.000	
TCE	→ DCE		0.000	
DCE	→ VC		0.000	
VC	→ ETH		0.000	

5. GENERAL

Simulation Time*
Modeled Area Width*
Modeled Area Length*
Zone 1 Length*
Zone 2 Length*

20	(yr)
30	(ft)
150	(ft)
150	(ft)
0	(ft)

Zone 2 =
L - Zone 1

6. SOURCE DATA

Source Options

Source Thickness in Sat. Zone* 10 (ft)

Width* (ft)	10
-------------	----

Conc. (mg/L) ^x	C1
PCE	.6
TCE	.15
DCE	2.0
VC	
ETH	

7. FIELD DATA FOR COMPARISON

PCE Conc. (mg/L)	.6				.019				
TCE Conc. (mg/L)					.005				
DCE Conc. (mg/L)					.07				
VC Conc. (mg/L)									
ETH Conc. (mg/L)									
Distance from Source (ft)	0				78				
Date Data Collected	1999								

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE

RUN ARRAY

Help

Formulas for V_s , R_s

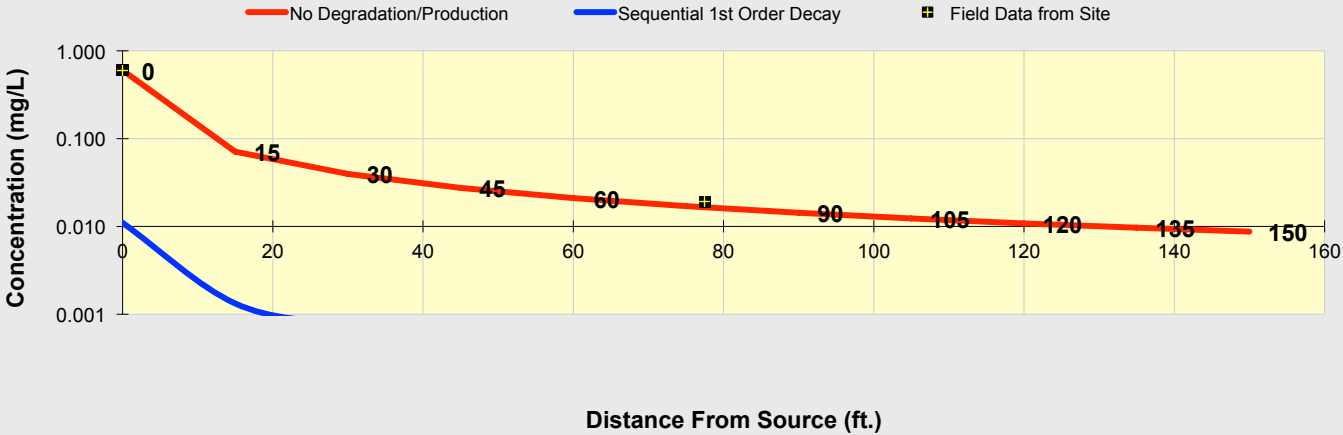
RESET

SEE OUTPUT

Paste Example

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

PCE	Distance from Source (ft)										
	0	15	30	45	60	75	90	105	120	135	150
No Degradation	0.600	0.071	0.040	0.027	0.021	0.017	0.014	0.012	0.011	0.010	0.009
Biotransformation	0.0110	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Monitoring Well Locations (ft)											
Field Data from Site	0					77.5					
	0.600					0.019					



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

20.0 Years

Log



Linear

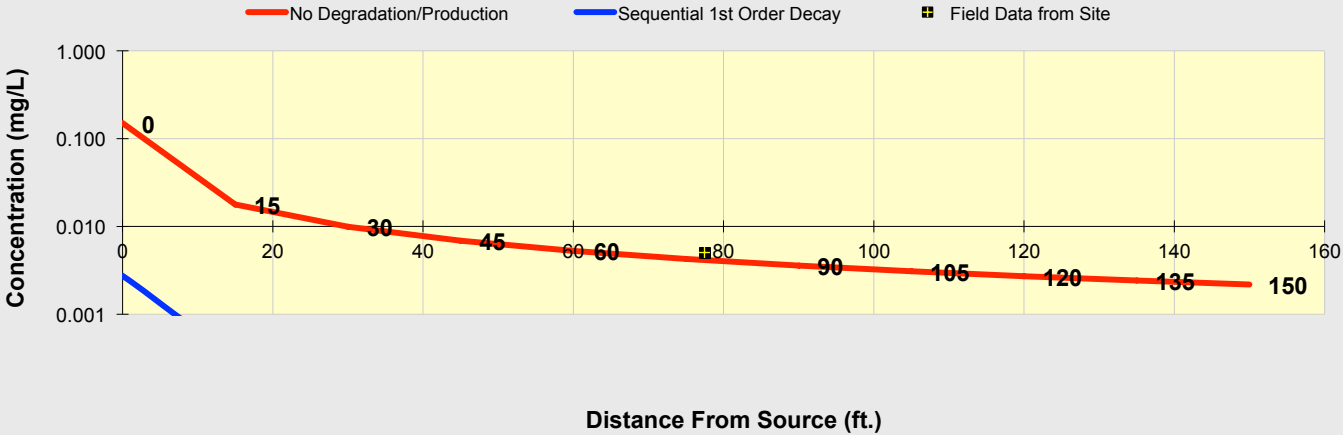
Return to
Input

To All

To Array

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

		Distance from Source (ft)										
TCE		0	15	30	45	60	75	90	105	120	135	150
No Degradation		0.150	0.018	0.010	0.007	0.005	0.004	0.004	0.003	0.003	0.002	0.002
Biotransformation		0.0027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Monitoring Well Locations (ft)										
		0					77.5					
Field Data from Site							0.005					



- See PCE
- See TCE
- See DCE
- See VC
- See ETH

Prepare Animation

Time: 20.0 Years

Log ↔ Linear

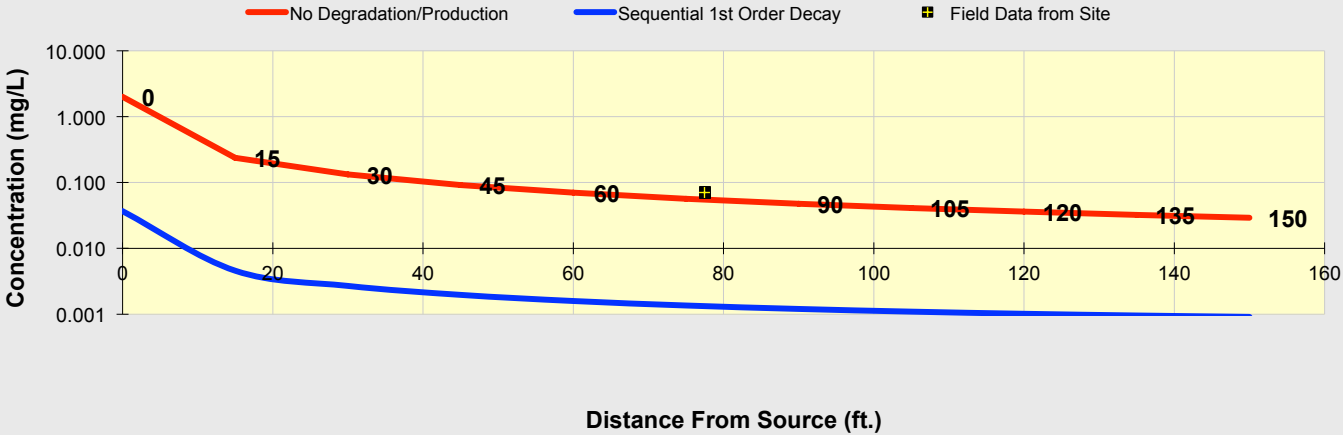
Return to Input

To All

To Array

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

DCE	Distance from Source (ft)										
	0	15	30	45	60	75	90	105	120	135	150
No Degradation	2.000	0.237	0.132	0.092	0.070	0.057	0.048	0.041	0.036	0.032	0.029
Biotransformation	0.0366	0.005	0.003	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Monitoring Well Locations (ft)											
Field Data from Site	0					77.5					
						0.070					



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

20.0 Years

Log



Linear

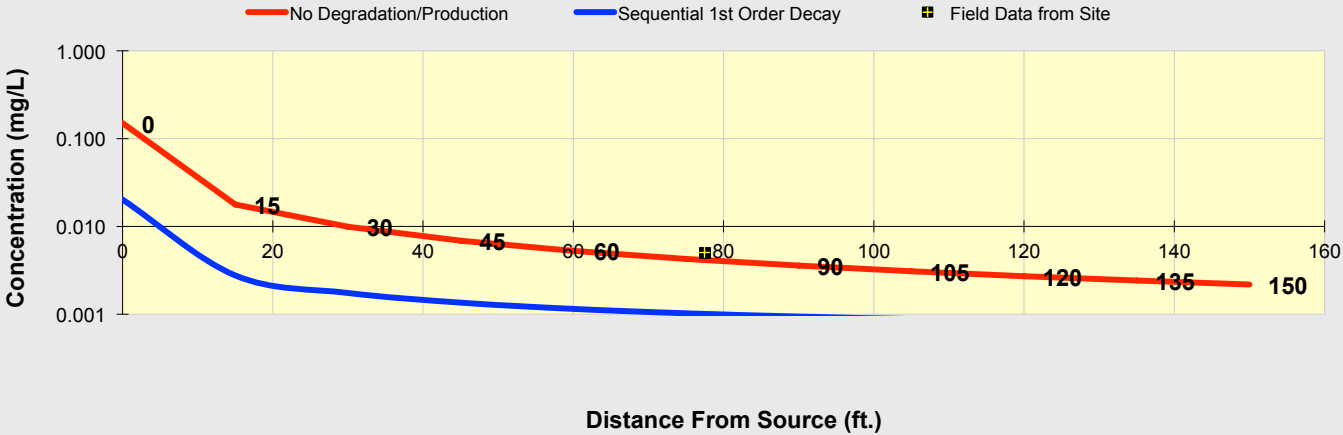
Return to
Input

To All

To Array

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

TCE	Distance from Source (ft)										
	0	15	30	45	60	75	90	105	120	135	150
No Degradation	0.150	0.018	0.010	0.007	0.005	0.004	0.004	0.003	0.003	0.002	0.002
Biotransformation	0.0203	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Field Data from Site	Monitoring Well Locations (ft)										
	0					77.5					
						0.005					



- See PCE
- See TCE
- See DCE
- See VC
- See ETH

Prepare Animation

Time: 10.0 Years

Log ↔ Linear

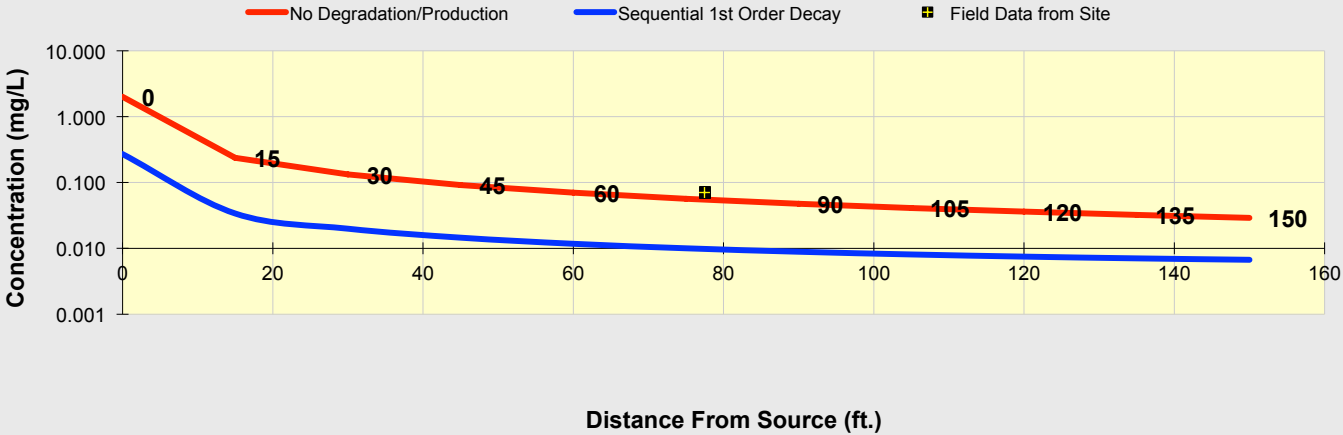
Return to Input

To All

To Array

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

DCE	Distance from Source (ft)										
	0	15	30	45	60	75	90	105	120	135	150
No Degradation	2.000	0.237	0.132	0.092	0.070	0.057	0.048	0.041	0.036	0.032	0.029
Biotransformation	0.2707	0.034	0.020	0.015	0.012	0.010	0.009	0.008	0.007	0.007	0.007
Field Data from Site	Monitoring Well Locations (ft)										
	0					77.5					
						0.070					



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

10.0 Years

Log



Linear

Return to
Input

To All

To Array

VAPOR INTRUSION EVALUATION

OSWER VAPOR INTRUSION ASSESSMENT
Vapor Intrusion Screening Level (VISL) Calculator Version 3.0, November 2012 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR	1.00E-05	Enter target risk for carcinogens
Target Hazard Quotient for Non-Carcinogens	THQ	1	Enter target hazard quotient for non-carcinogens
Average Groundwater Temperature (°C)	Tgw	25	Enter average of the stabilized groundwater temperature to correct Henry's Law Constant for groundwater target concentrations

CAS	Chemical Name	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Soil Source?	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Groundwater Source?	Target Indoor Air Conc. @ TCR = 10E-06 or THQ = 1	Toxicity Basis	Target Sub-Slab and Exterior Soil Gas Conc. @ TCR = 10E-06 or THQ = 1	Target Ground Water Conc. @ TCR = 10E-06 or THQ = 1	Is Target Ground Water Conc. < MCL?	Pure Phase Vapor Conc. @ 25°C	Groundwater Vapor Conc.	Temperature for Groundwater Vapor Conc.	Lower Explosive Limit**	LEL Source	Inhalation Unit Risk	IUR Source*	Reference Concentration	RfC Source*	Mutagenic Indicator i	Target Indoor Air Conc. for Carcinogens @ TCR = 10E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 1
		Cvp > Cia,target?	Chc > Cia,target?	MIN(Cia,c;Cia,nc)		TCR = 10E-06 or THQ = 1	Cgw	Cgw<MCL?	Cvp	Chc	Tgw or 25	LEL		IUR		RfC			Cia,c	Cia,nc
		Yes/No	Yes/No	(ug/m³)	C/NC	(ug/m³)	(ug/L)	Yes/No (MCL ug/L)	(ug/m³)	(ug/m³)	C	(% by vol)		(ug/m³) ¹		(mg/m³)			(ug/m³)	(ug/m³)
x 67-64-1	Acetone	Yes	Yes	1.4E+05	NC	1.4E+06	9.5E+07	--	7.25E+08	1.43E+09	25	2.6	E			3.10E+01	A			1.4E+05
x 156-59-2	Dichloroethylene, 1,2-cis-	No Inhal. Tox. Info	No Inhal. Tox. Info	--	--	--	--	No (70)	1.05E+09	1.07E+09	25	9.7	M							
x 108-10-1	Methyl Isobutyl Ketone (4-methyl-2-pentanone)	Yes	Yes	1.3E+04	NC	1.3E+05	2.3E+06	--	1.07E+08	1.07E+08	25	1.2	N			3.00E+00	I			1.3E+04
x 127-18-4	Tetrachloroethylene	Yes	Yes	1.8E+02	NC	1.8E+03	2.4E+02	No (5)	1.65E+08	1.49E+08	25					4.00E-02	I		4.7E+02	1.8E+02
x 108-88-3	Toluene	Yes	Yes	2.2E+04	NC	2.2E+05	8.1E+04	No (1000)	1.41E+08	1.43E+08	25	1.1	N			5.00E+00	I			2.2E+04
x 79-01-6	Trichloroethylene	Yes	Yes	8.8E+00	NC	8.8E+01	2.2E+01	No (5)	4.88E+08	5.15E+08	25	8	N		I	2.00E-03	I	TCE	3.0E+01	8.8E+00
x 95-63-6	Trimethylbenzene, 1,2,4-	Yes	Yes	3.1E+01	NC	3.1E+02	1.2E+02	--	1.36E+07	1.44E+07	25	0.9	N			7.00E-03	P			3.1E+01
x 1330-20-7	Xylenes	Yes	Yes	4.4E+02	NC	4.4E+03	2.1E+03	Yes (10000)	4.78E+07	2.24E+07	25					1.00E-01	I			4.4E+02

Notes:

(1)	<u>Inhalation Pathway Exposure Parameters (RME):</u>		Units		Residential		Commercial		Selected (based on scenario in cell E5)	
	Exposure Scenario				Symbol	Value	Symbol	Value	Symbol	Value
	Averaging time for carcinogens		(yrs)		ATc_R	70	ATc_C	70	ATc	70
	Averaging time for non-carcinogens		(yrs)		ATnc_R	30	ATnc_C	25	ATnc	25
	Exposure duration		(yrs)		ED_R	30	ED_C	25	ED	25
	Exposure frequency		(days/yr)		EF_R	350	EF_C	250	EF	250
	Exposure time		(hr/day)		ET_R	24	ET_C	8	ET	8

(2)	Generic Attenuation Factors:		Residential		Commercial		Selected (based on scenario in cell E5)	
	Source Medium of Vapors		Symbol	Value	Symbol	Value	Symbol	Value
	Groundwater	(-)	AFgw_R	0.001	AFgw_C	0.001	AFgw	0.001
	Sub-Slab and Exterior Soil Gas	(-)	AFss_R	0.1	AFss_C	0.1	AFss	0.1

(3)	Formulas
	Cia,target = MIN(Cia,c; Cia,nc)
	Cia,c (ug/m3) = TCR x ATc x (365 days/yr) x (24 hrs/day) / (ED x EF x ET x IUR)
	Cia,nc (ug/m3) = THQ x ATnc x (365 days/yr) x (24 hrs/day) x RfC x (1000 ug/mg) / (ED x EF x ET)

(4)	Special Case Chemicals	Residential		Commercial		Selected (based on scenario in cell E5)	
	Trichloroethylene	Symbol	Value	Symbol	Value	Symbol	Value
		mIURTCE_R	1.00E-06	mIURTCE_C	0.00E+00	mIURTCE	0.00E+00
		IURTCE_R	3.10E-06	IURTCE_C	4.10E-06	IURTCE	4.10E-06

Mutagenic Chemicals The exposure durations and age-dependent adjustment factors for mutagenic-mode-of-action are listed in the table below:

	Age Cohort	Exposure Duration (years)	Age-dependent adjustment factor
	0 - 2 years	2	10
	2 - 6 years	4	3
	6 - 16 years	10	3
	16 - 30 years	14	1

Note: This section applies to trichloroethylene and other mutagenic chemicals, but not to vinyl chloride.

Mutagenic-mode-of-action (MMOA) adjustment factor 25 This factor is used in the equations for mutagenic chemicals.

Vinyl Chloride See the Navigation Guide equation for Cia,c for vinyl chloride.

Notation:

NVT = Not sufficiently volatile and/or toxic to pose inhalation risk in selected exposure scenario for the indicated medium
C = Carcinogenic
NC = Non-carcinogenic
I = IRIS: EPA Integrated Risk Information System (IRIS). Available online at: <http://www.epa.gov/iris/subst/index.html>
P = PPRTV: EPA Provisional Peer Reviewed Toxicity Values (PPRTVs). Available online at: <http://hhpprtv.ornl.gov/pprtv.shtml>
A = Agency for Toxic Substances and Disease Registry (ATSDR) Minimum Risk Levels (MRLs). Available online at: <http://www.atsdr.cdc.gov/mrls/index.html>
CA = California Environmental Protection Agency/Office of Environmental Health Hazard Assessment assessments. Available online at: <http://www.oehha.ca.gov/risk/ChemicalDB/index.asp>
H = HEAST. EPA Superfund Health Effects Assessment Summary Tables (HEAST) database. Available online at: <http://epa-heast.ornl.gov/heast.shtml>
S = See RSL User Guide, Section 5
X = PPRTV Appendix
E = The Engineering ToolBox. Available online at http://www.engineeringtoolbox.com/explosive-concentration-limits-d_423.html
N = Centers for Disease Control and Prevention (CDC) National Institute for Occupational Safety and Health (NIOSH). Pocket Guide to Chemical Hazards. Available online at: <http://www.cdc.gov/niosh/npg/default.html> <http://www.cdc.gov/niosh/npg/default.html>
M = Chemical-specific MSDS
Mut = Chemical acts according to the mutagenic-mode-of-action, special exposure parameters apply (see footnote (4) above).
VC = Special exposure equation for vinyl chloride applies (see Navigation Guide for equation).
TCE = Special mutagenic and non-mutagenic IURs for trichloroethylene apply (see footnote (4) above).
Yellow highlighting indicates site-specific parameters that may be edited by the user.
Blue highlighting indicates exposure factors that are based on Risk Assessment Guidance for Superfund (RAGS) or EPA vapor intrusion guidance, which generally should not be changed.
**Lower explosive limit is the minimum concentration of the compound in air (% by volume) that is needed for the gas to ignite and explode.

Soil Gas Sample SV-1R

OSWER VAPOR INTRUSION ASSESSMENT
 Sub-slab or Exterior Soil Gas Concentration to Indoor Air Concentration (SGC-IAC) Calculator Version 3.0, November 2012 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR_SG	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ_SG	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)

CAS	Chemical Name	Site Sub-slab or Exterior Soil Gas Concentration	Calculated Indoor Air Concentration	VI Carcinogenic Risk	VI Hazard
		Csg	Cia	CR	HQ
		(ug/m ³)	(ug/m ³)		
x 127-18-4	Tetrachloroethylene	2.3E+03	7.13E+00	1.5E-07	4.1E-02
x 79-01-6	Trichloroethylene	1.1E+01	3.41E-02	1.1E-08	3.9E-03
x 95-63-6	Trimethylbenzene, 1,2,4-	1.0E+01	3.10E-02	No IUR	1.0E-03

Inhalation Unit Risk	IUR Source*	Reference Concentration	RfC Source*	Mutagenic Indicator
IUR		RfC		i
(ug/m ³) ⁻¹		(mg/m ³)		
2.60E-07	I	4.00E-02	I	
see note	I	2.00E-03	I	TCE
		7.00E-03	P	

Soil Gas Sample SV-2R

OSWER VAPOR INTRUSION ASSESSMENT

Sub-slab or Exterior Soil Gas Concentration to Indoor Air Concentration (SGC-IAC) Calculator Version 3.0, November 2012 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR_SG	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ_SG	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)

		Site Sub-slab or Exterior Soil Gas Concentration	Calculated Indoor Air Concentration	VI Carcinogenic Risk	VI Hazard
CAS	Chemical Name	Csg (ug/m ³)	Cia (ug/m ³)	CR	HQ
x 127-18-4	Tetrachloroethylene	4.8E+02	1.49E+00	3.2E-08	8.5E-03
x 79-01-6	Trichloroethylene	5.5E+00	1.71E-02	5.7E-09	1.9E-03
x 95-63-6	Trimethylbenzene, 1,2,4-	2.0E+01	6.20E-02	No IUR	2.0E-03

Inhalation Unit Risk	IUR Source*	Reference Concentration	RfC Source*	Mutagenic Indicator
IUR		RfC		i
(ug/m ³) ⁻¹		(mg/m ³)		
2.60E-07	I	4.00E-02	I	
see note	I	2.00E-03	I	TCE
		7.00E-03	P	

Soil Gas Sample SV-3R

OSWER VAPOR INTRUSION ASSESSMENT
 Sub-slab or Exterior Soil Gas Concentration to Indoor Air Concentration (SGC-IAC) Calculator Version 3.0, November 2012 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR_SG	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ_SG	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)

		Site Sub-slab or Exterior Soil Gas Concentration	Calculated Indoor Air Concentration	VI Carcinogenic Risk	VI Hazard
CAS	Chemical Name	Csg (ug/m ³)	Cia (ug/m ³)	CR	HQ
x 127-18-4	Tetrachloroethylene	7.8E+03	2.42E+01	5.1E-07	1.4E-01
x 79-01-6	Trichloroethylene	1.0E+02	3.10E-01	1.0E-07	3.5E-02
x 95-63-6	Trimethylbenzene, 1,2,4-	2.5E+01	7.75E-02	No IUR	2.5E-03

Inhalation Unit Risk	IUR Source*	Reference Concentration	RfC Source*	Mutagenic Indicator
IUR		RfC		i
(ug/m ³) ⁻¹		(mg/m ³)		
2.60E-07	I	4.00E-02	I	
see note	I	2.00E-03	I	TCE
		7.00E-03	P	

Soil Gas Sample SV-4R

OSWER VAPOR INTRUSION ASSESSMENT Sub-slab or Exterior Soil Gas Concentration to Indoor Air Concentration (SGC-IAC) Calculator Version 3.0, November 2012 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR_SG	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ_SG	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)

CAS	Chemical Name	Site Sub-slab or Exterior Soil Gas Concentration	Calculated Indoor Air Concentration	VI Carcinogenic Risk	VI Hazard
		Csg	Cia	CR	HQ
		(ug/m³)	(ug/m³)		
127-18-4	Tetrachloroethylene	4.7E+04	1.46E+02	3.1E-06	8.3E-01
79-01-6	Trichloroethylene	1.4E+03	4.34E+00	1.5E-06	5.0E-01
95-63-6	Trimethylbenzene, 1,2,4-	5.0E+01	1.55E-01	No IUR	5.1E-03

Inhalation Unit Risk	IUR Source*	Reference Concentration	RfC Source*	Mutagenic Indicator
IUR		RfC		i
(ug/m ³) ⁻¹		(mg/m ³)		
2.60E-07	I	4.00E-02	I	
see note	I	2.00E-03	I	TCE
		7.00E-03	P	

Soil Gas Sample SV-5R

OSWER VAPOR INTRUSION ASSESSMENT

Sub-slab or Exterior Soil Gas Concentration to Indoor Air Concentration (SGC-IAC) Calculator Version 3.0, November 2012 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR_SG	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ_SG	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)

		Site Sub-slab or Exterior Soil Gas Concentration	Calculated Indoor Air Concentration	VI Carcinogenic Risk	VI Hazard	
CAS	Chemical Name	Csg (ug/m³)	Cia (ug/m³)	CR	HQ	
x	127-18-4	Tetrachloroethylene	2.9E+04	8.99E+01	1.9E-06	5.1E-01
x	79-01-6	Trichloroethylene	6.8E+02	2.11E+00	7.0E-07	2.4E-01
x	95-63-6	Trimethylbenzene, 1,2,4-	5.0E+01	1.55E-01	No IUR	5.1E-03

Inhalation Unit Risk	IUR Source*	Reference Concentration	RfC Source*	Mutagenic Indicator
IUR		RfC		i
(ug/m ³) ⁻¹		(mg/m ³)		
2.60E-07	I	4.00E-02	I	
see note	I	2.00E-03	I	TCE
		7.00E-03	P	

APPENDIX D
FIELD METHODS

SOIL AND GROUNDWATER SAMPLING PROCEDURES

SOIL SAMPLING

Soil sampling will be conducted in general accordance with protocols described in Section 4.0 of the USEPA Region IV Standard Operating Procedures/Quality Assurance Manual (SOP/QAM) dated February 1991. The samples will be collected using grab sampling methods. The excavation equipment will assist with the sampling. Care will be exercised to collect a sample that has not been exposed or aerated during excavation process and immediately placed in the appropriate containers.

Immediately upon completion of the sampling process, each of the samples will be placed in an ice-filled cooler before being transported to the laboratory. Sample collection date, time, location, depth, as well as soil description will be recorded in the field logbook or sample log.

Waste characterization samples will be collected from each soil stockpile created at the Site. The samples will be collected at a rate of one per every 100 CY of soil. At a minimum, however, two samples will be collected from each stockpile. The samples will be analyzed for TCLP VOCs, SVOCs and Metals. The results of the analyses will be used to make a final decisions concerning disposal.

All sampling equipment will be decontaminated between samples. The decontamination process will include; a phosphate-free laboratory grade detergent wash followed by a potable water rinse. In the case of the excavation equipment, the bucket will be cleaned of any residual debris prior to the collection of the grab sample.

GROUNDWATER SAMPLING

Prior to groundwater sampling, the depth to water will be recorded for each temporary monitoring well and purged of groundwater. Each of the temporary monitoring

wells will be purged of a minimum three well volumes or pumped dry using a peristaltic pump with dedicated plastic tubing for each well. All monitoring wells were sampled utilizing low-flow sampling techniques. Low-flow techniques were utilized in this investigation to remove any soil particles present in groundwater, verified through the use of turbidity measurements, and provide an accurate representation of RCRA Metals in groundwater. Water quality parameters such as pH, conductivity, temperature, and groundwater drawdown rate were evaluated during purging to ensure groundwater samples were representative of formational groundwater. Groundwater samples were collected following the stabilization of these parameters. Specifically, stabilization is achieved when three successive readings of pH range within ± 0.10 , conductivity within ± 0.30 (S/cm), and turbidity less than 10 ntu.

VAPOR ASSESSMENT INVESTIGATION

A total of five (5) sub-slab samples locations were installed in the interior of the former Vogue Cleaners. Five sub-slab vapor probes were installed in each potentially affected area where vapor may be of concern. A rotatory hammer drill was used to create a small diameter hole through the concrete and into the sub-slab material. The open cavity created by the drilling process was filled with sand to prevent obstruction of probes by the external material. A quick drying Portland cement was used to ensure a tight seal into the annular space between the probe and outside of the hole.

The sub-slab samples were collected in Summa canisters using a peristaltic pump and dedicated tubing and analyzed for a list of target compounds via EPA Method TO-15. Three (3) of the five (5) samples collected were also analyzed for Radon and were collected in 1L Tedlar bags. Radon was utilized to support site specific attenuation factors for the contaminants of concern.


**APPENDIX E
SOIL BORING LOGS
MONITOR WELL CONSTRUCTION LOGS**

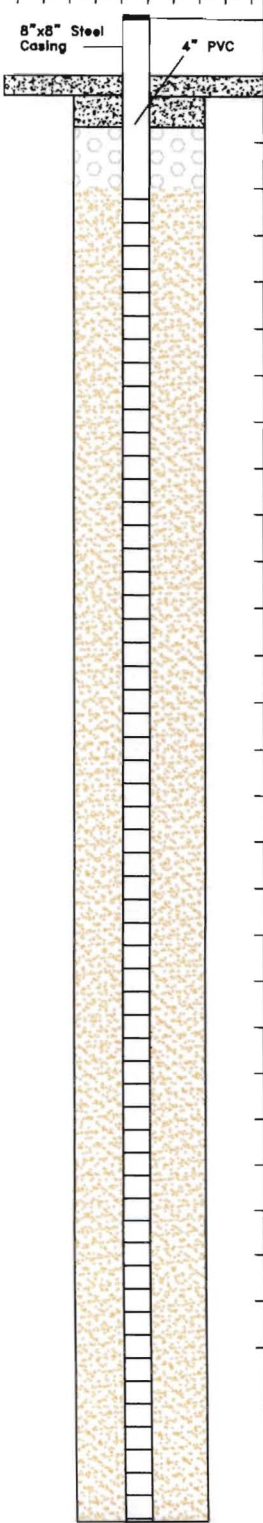



BORING LOG

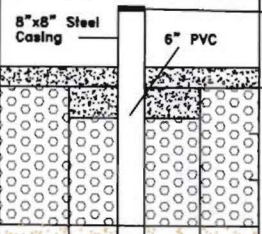

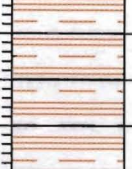
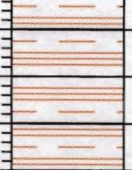
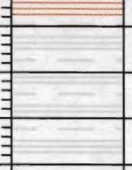




BORING NUMBER				PROJECT NUMBER			
DATE				LOGGER			
PROJECT				DRILLING CONTRACTOR			
BORING LOCATION				GROUND ELEVATION			
DRILLING METHOD AND EQUIPMENT				TOP OF CASING ELEVATION			
MW-21 PAGE 1 OF 1				1525-0100			
VOGUE CLEANERS				A-E Drilling			
south of MW-1				N/A			
bottle stem auger/split spoon				N/A			
6/2/99 START 1445 FINISH 1730				Art Busby			
SAMPLE							SYMBOLIC LOG
DEPTH BELOW GROUND SURFACE (feet)	SAMPLE INTERVAL	TYPE AND NUMBER	TIME	REC.	OVM PEAK/AVG. (ppm)	REMARKS	
	0-1'				na		0-1': asphalt and gravel base
	1'-3'			100%	na	3,6,4,5	1'-2': black, silty sand and pieces of wood 2'-3': light gray and tan clayey sand; moist
	3'-5'			100%	na	7,8,8,8	3'-5': same as 2'-3' with some med. To coarse-grained sand
5	5'-7'			75%	na	7,9,10,11	5'-6.5': white & light yellow clayey, coarse-grained sand; moist
	7'-9'			100%	na	9,11,15,16	7'-9': same as 5'-6.5'; wet
10	9'-11'			100%	na	10,12,15,15	9'-11': same as 5'-6.5'
	11'-13'			100%	na	12,12,14,15	11'-13': same as 5'-6.5'
	13'-15'			100%	na	12,13,15,16	13'-15': same as 5'-6.5'
15	15'-17'			100%	na	16,18,20,21	15'-17': clayey sand with gravel (16.5'-17')
	17'-19'			100%	na	not recorded	17'-18.5': white & tan fine-grained clayey sand; dry
20	19'-21'			75%	na	not recorded	19'-20.5': dry, white & gray silty sand w/med.-coarse grained sand
							Split spoon refusal @ 20.5' bgs Continued augering to refusal @ 35.5' bgs
25							

(Continued on next page if over 25 feet deep)

FACILITY NAME: Vogue Cleaners	GA FAC. ID#:	PROJECT #	BORING / WELL: RW-1	DRAWN BY: JAT	pg 1 of 1
LOCATION MAP:	START DATE & TIME: 9/21/06				
	COMP. DATE & TIME: 9/21/06				
	LOGGED BY: TJM		GA. LIC#:		
	DRILLER: GeoLab				
	DRILLING METHOD: HSA				
	ELEV (MSL):		T.D. (MSL):		
WATER ENCOUNTERED (BGS): <input checked="" type="checkbox"/>			<small>Comments: Grain size and relative percentages approximate. No unusual odors detected unless noted. Soil type classified with United Soil Classification System. Munsell color descriptions give in order of predominance.</small>		
WATER LEVEL (BGS): <input checked="" type="checkbox"/>					
<small>6" Recovery Well / 4' of Steel Casing</small>					

MSL	COMPLETION DIAGRAM	WATER LEVEL	WELL DESCRIPTION	DEPTH	GRAPHIC LITHOLOGY	PENETRATION RATE	SPT (bls)	SAMPLES & CORES			DESCRIPTION (Color, Texture, Structure, etc...)
								TYPE	RECY	ANAL	
	BOREHOLE DIAMETER: 10- Inches										
				0							Asphalt
				0-2'							0-2', Yellowish orange coarse sand, silt, clay
				4-6'							4-6', Light brown clay, medium stiffness.
				7-9'							7-9', SAA
				10-12'							10-12', Gray white coarse sand, silty clay, saturated
				12-14'							12-14', SAA
				14-16'							14-16', PWR granite, gray tan
				17-19'							17-19', Medium grained sand, hard clay, brownish white
				19-21'							19-21', White gray clay sand, silt, medium grained to fine coarse sand.
				17-19'							17-19', Medium grained sand, hard clay, brownish white
				22-24'							22-24', SAA
				24-24'							24-24', Coarse sand, gray
				27-29'							27-29', Tan clay, fine grained.
				29-31'							29-31', Hard clay, dry.
				32-34'							32-34', Very hard clay
				TD = 34.50' bls							

FACILITY NAME: Vogue Cleaners	GA FAC. ID#:	PROJECT #	BORING / WELL: RW-2	DRAWN BY: JAT	pg 1 of 1
LOCATION MAP:	START DATE & TIME: 6/19/07				
	COMP. DATE & TIME: 6/19/07				
	LOGGED BY: TJM		GA. LIC#:		
	DRILLER: GeoLab				
	DRILLING METHOD: HSA				
	ELEV (MSL):		T.D. (MSL):		
WATER ENCOUNTERED (BGS):			STANDARD FIELD NOTE FORM <small>Comments: Grain size and relative percentages approximate. No unusual odors detected unless noted. Soil type classified with United Soil Classification System. Munsell color descriptions give in order of predominance.</small>		
WATER LEVEL (BGS):			8" Recovery Well / 4' of Steel Casing		

MSL	COMPLETION DIAGRAM	WATER LEVEL	WELL DESCRIPTION	DEPTH	GRAPHIC LITHOLOGY	PENETRATION RATE	OVD (PPH)	SAMPLES & CORES			DESCRIPTION (Color, Texture, Structure, etc...)
								TYPE	RECY	ANAL	
	BOREHOLE DIAMETER: 10- Inches 										
		4' Steel Riser		0							Asphalt
											Orange, soft fine to medium grained sandy clay, moist. (cl)
		▼		5							Orange, very stiff fine to medium coarse sandy clay, moist
		▼ Static		10							White, very dense clay, medium to coarse grained sand, wet.
				15							White tan dense medium grained sand
				20							A/A
				25							Weathered sandstone
											Molten sand, silt white clay. Auger refusal.
				30							



Genesis Project, Inc.
ENVIRONMENTAL SERVICES

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Smyrna, Ga 30080
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Fax: 770-3197219

WELL NUMBER MW-22

PAGE 1 OF 1

CLIENT Morgan Stanley

PROJECT NAME Former Vogue Cleaners

PROJECT NUMBER _____

PROJECT LOCATION Martinez, Georgia

DATE STARTED 7/14/11

COMPLETED 7/14/11

GROUND ELEVATION 365.7 ft MSL **HOLE SIZE** 6"

DRILLING CONTRACTOR _____

GROUND WATER LEVELS:

DRILLING METHOD HSA

AT TIME OF DRILLING ---

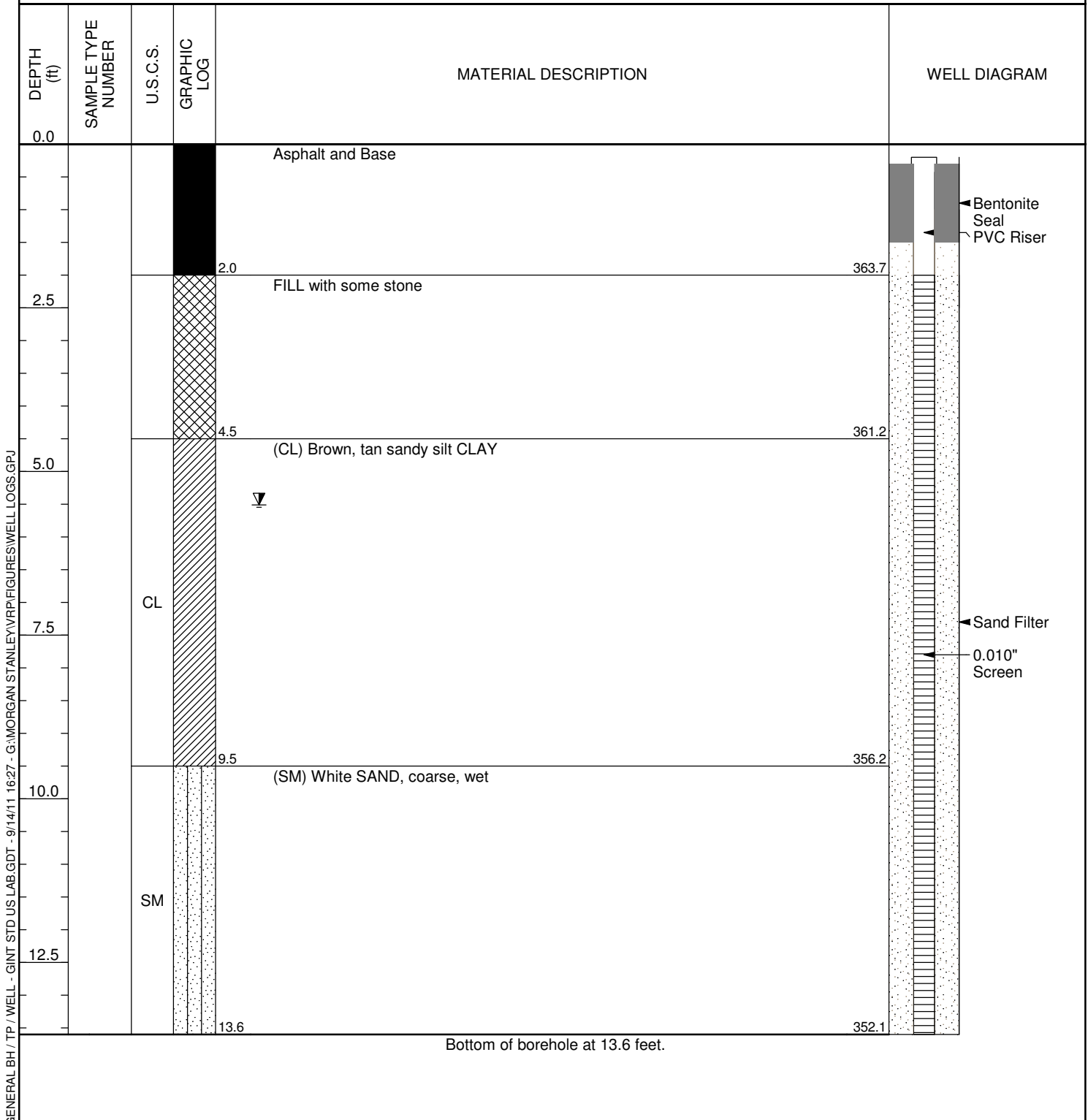
LOGGED BY _____

CHECKED BY _____

AT END OF DRILLING ---

NOTES _____

3hrs AFTER DRILLING 5.51 ft / Elev 360.19 ft





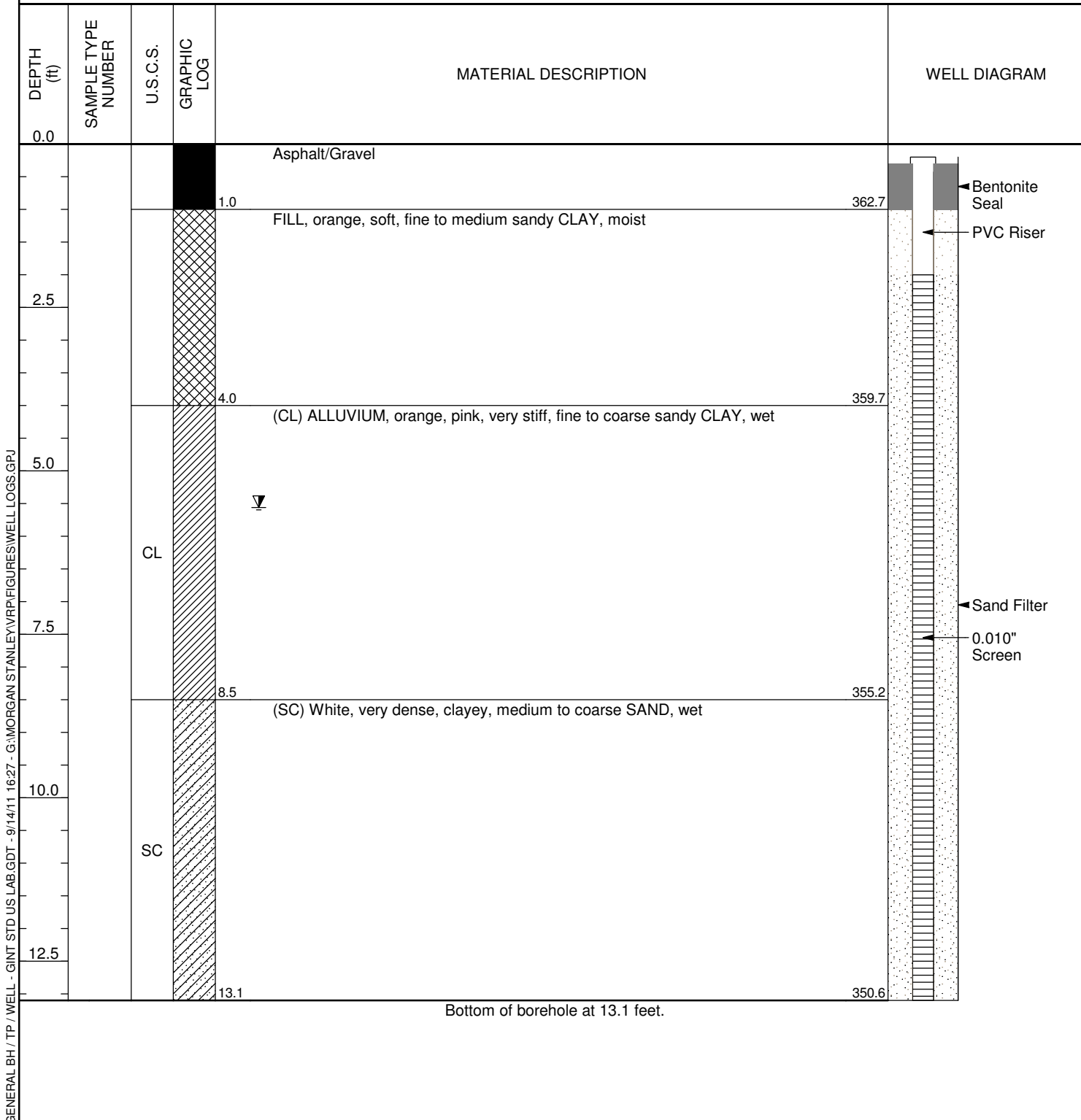
Genesis Project, Inc.
ENVIRONMENTAL SERVICES

Genesis Project, Inc
1258 Concord Road
Smyrna, Ga 30080
Telephone: 770-319-7217
Fax: 770-3197219

WELL NUMBER POD-1

PAGE 1 OF 1

CLIENT <u>Morgan Stanley</u>	PROJECT NAME <u>Former Vogue Cleaners</u>
PROJECT NUMBER _____	PROJECT LOCATION <u>Martinez, Georgia</u>
DATE STARTED <u>7/14/11</u> COMPLETED <u>7/14/11</u>	GROUND ELEVATION <u>363.7 ft MSL</u> HOLE SIZE <u>6"</u>
DRILLING CONTRACTOR _____	GROUND WATER LEVELS:
DRILLING METHOD <u>HSA</u>	AT TIME OF DRILLING ---
LOGGED BY _____ CHECKED BY _____	AT END OF DRILLING ---
NOTES _____	3hrs AFTER DRILLING <u>5.56 ft / Elev 358.14 ft</u>





Genesis Project, Inc.
ENVIRONMENTAL SERVICES.

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Fax: 770-3197219

WELL NUMBER MW-2R

PAGE 1 OF 1

CLIENT Morgan Stanley

PROJECT NAME Former Vogue Cleaners

PROJECT NUMBER _____

PROJECT LOCATION Martinez, Georgia

DATE STARTED 8/29/12

COMPLETED 8/29/12

GROUND ELEVATION 364.01 ft MSL HOLE SIZE 6"

DRILLING CONTRACTOR _____

GROUND WATER LEVELS:

DRILLING METHOD HSA

▽ AT TIME OF DRILLING 6.00 ft / Elev 358.01 ft

LOGGED BY _____

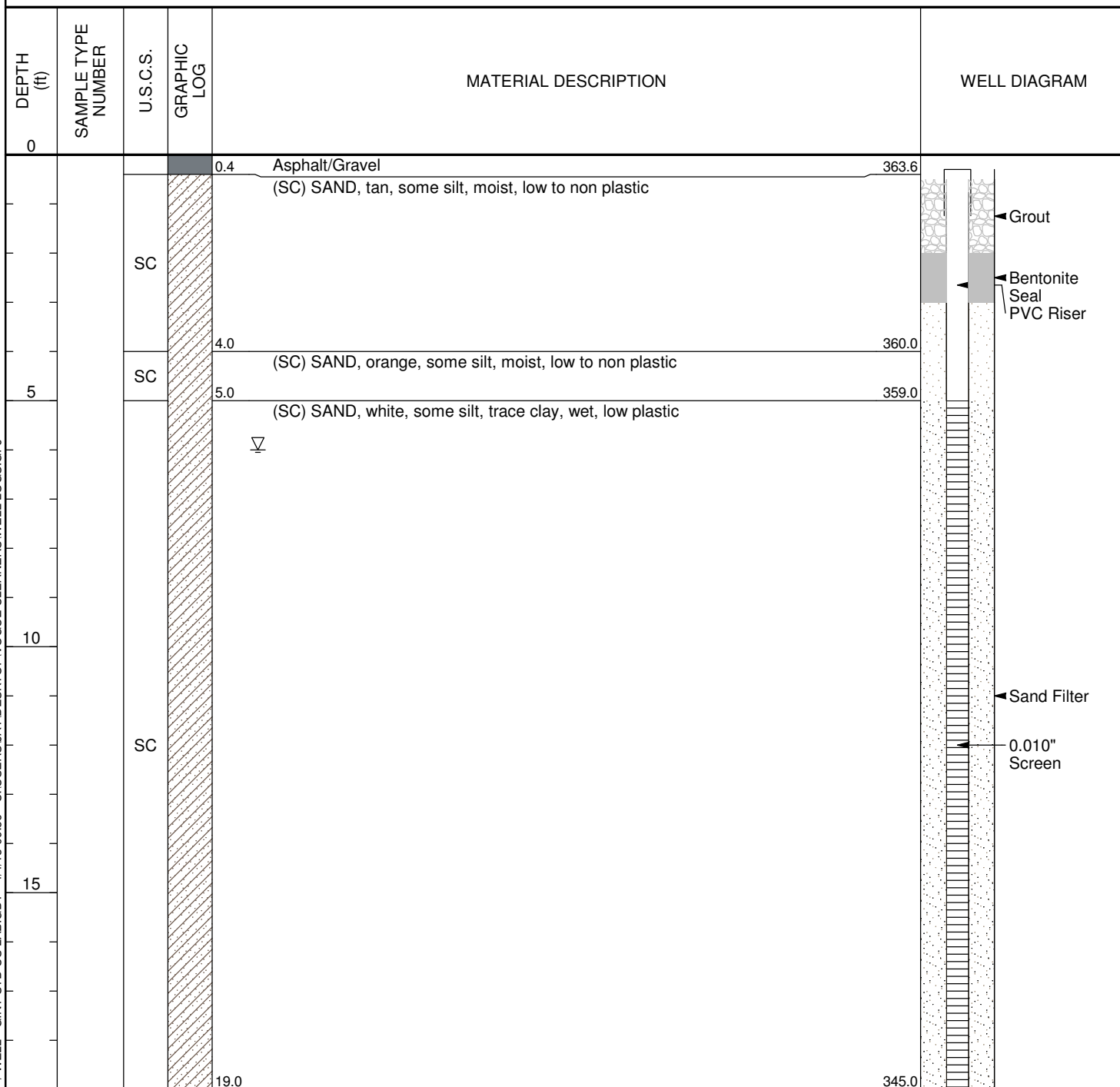
CHECKED BY _____

AT END OF DRILLING ---

NOTES _____

AFTER DRILLING ---

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 4/4/13 09:56 - C:\USERS\JATIDESKTOP\VOGUE CLEANERS\WELL LOGS.GPJ



Bottom of borehole at 19.0 feet.



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WELL NUMBER MW-8R

PAGE 1 OF 1

CLIENT Morgan Stanley

PROJECT NAME Former Vogue Cleaners

PROJECT NUMBER _____

PROJECT LOCATION Martinez, Georgia

DATE STARTED 2/12/13

COMPLETED 2/12/13

GROUND ELEVATION _____

HOLE SIZE 6"

DRILLING CONTRACTOR _____

GROUND WATER LEVELS:

DRILLING METHOD HSA

AT TIME OF DRILLING ---

LOGGED BY _____

CHECKED BY _____

AT END OF DRILLING ---

NOTES _____

AFTER DRILLING ---

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 4/4/13 09:59 - C:\USERS\JAT\DESKTOP\VOGUE CLEANERS\WELL LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					
0.6				Asphalt FILL	Grout PVC Riser Bentonite
5.0		SC		(SC) SAND, medium grained, light brown, well sorted, some gravel	
10.0		SC		(SC) SAND, white, wet	
15.0		SC		(SC) SAA	Sand Filter 0.0010" PVC Screen
20.0				Bottom of borehole at 20.0 feet.	

**GENESIS PROJECT/VOGUE CLEANERS/GA
SUMMARY OF SOIL DATA**

Sample Identification	Sample Type	Sample Depth	Soil Classification		Natural Moisture %	Atterberg Limits				Grain Size Distribution			Compaction		Unit Weight		Additional Tests Conducted (See Notes)
										% Finer No. 4 Sieve	% Finer No. 200 Sieve	% Finer .005 mm	Maximum Dry Density (lb/cuft)	Optimum Moisture %			
			USCS	USDA		L.L.	P.L.	P.I.	L.I.	Moisture %	Dry (lb/cuft)						
MW-2	Bag	1.0-3.0'	(SC)	Sandy Loam	14.3	-	-	-	-	99.4	24.1	15.5	-	-	-	-	-
MW-2	Bag	3.0-6.0'	(SC)	Sandy Clay Loam	14.2	-	-	-	-	99.6	27.8	24.0	-	-	-	-	-
MW-8	Bag	1.0-3.0'	(SC)	Sandy Clay	19.6	-	-	-	-	99.0	48.3	43.0	-	-	-	-	-
MW-8	Bag	3.0-6.0'	(SC)	Sandy Loam	13.6	-	-	-	-	98.5	19.9	15.5	-	-	-	-	-

ABBREVIATIONS: LIQUID LIMIT (LL)
 PLASTIC LIMIT (PL)
 PLASTICITY INDEX (PI)
 LIQUIDITY INDEX (LI)
 SPECIFIC GRAVITY (Gs)
 MOISTURE (Mc)

NOTES: T = TRIAXIAL TEST
 U = UNCONFINED COMPRESSION TEST
 C = CONSOLIDATION TEST
 DS = DIRECT SHEAR TEST
 O = ORGANIC CONTENT
 P = pH

PARTICLE SIZE DISTRIBUTION & ATTERBERG LIMITS

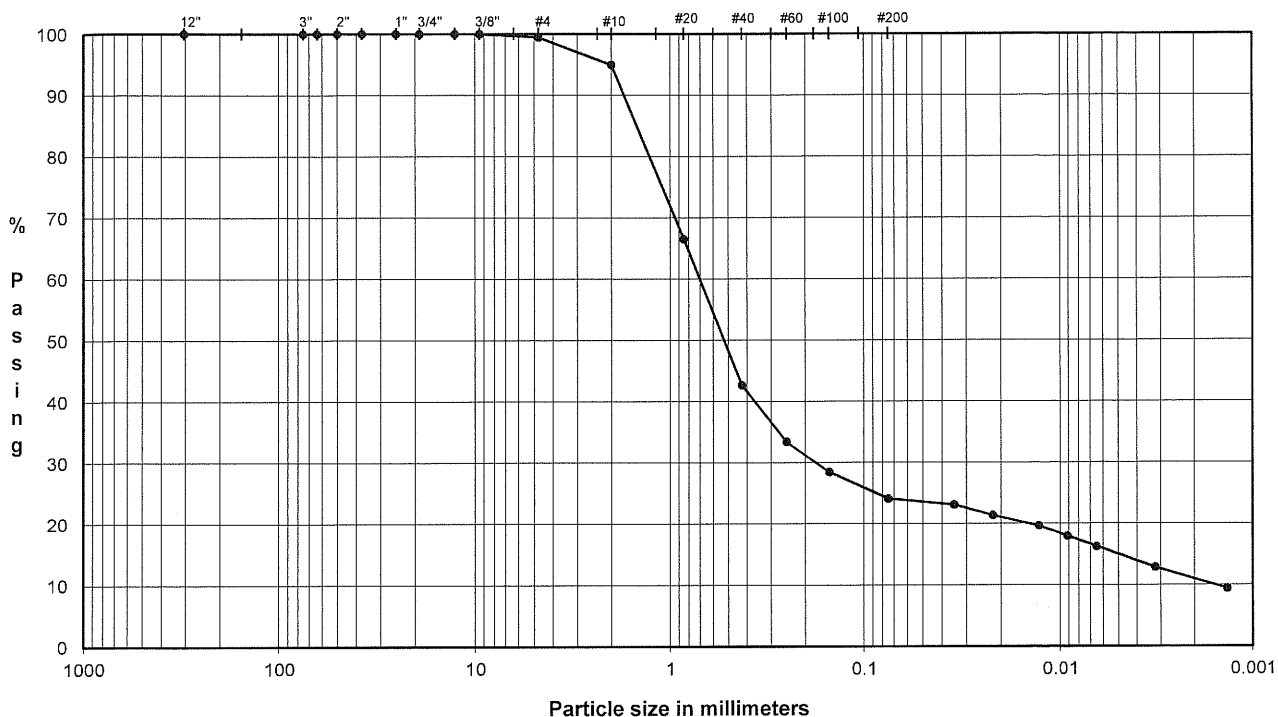
ASTM D421, D422, D4318

PROJECT NAME: GENESIS PROJECT/VOGUE CLEANERS/GA

SAMPLE ID: MW-2

Depth: 1.0-3.0'

TYPE: Bag



	Coarse	Fine	Coarse	Medium	Fine	Silt or Clay
COBBLES	GRAVEL		SAND			FINES

Particle Size (mm)	% Passing	Classification	Percentage
12.0"	304.8	100.0	
3.0"	75.0	100.0	
2.5"	63.5	100.0	
2.0"	50.0	100.0	
1.5"	37.5	100.0	
1.0"	25.0	100.0	
0.75"	19.0	100.0	
0.50"	12.7	100.0	
0.375"	9.5	100.0	
#4	4.8	99.4	0.60
#10	2.00	95.0	4.45
#20	0.85	66.5	
#40	0.43	42.7	52.28
#60	0.25	33.4	
#100	0.15	28.4	
#200	0.075	24.1	18.56

U.S. Standard Sieves Sizes and Numbers

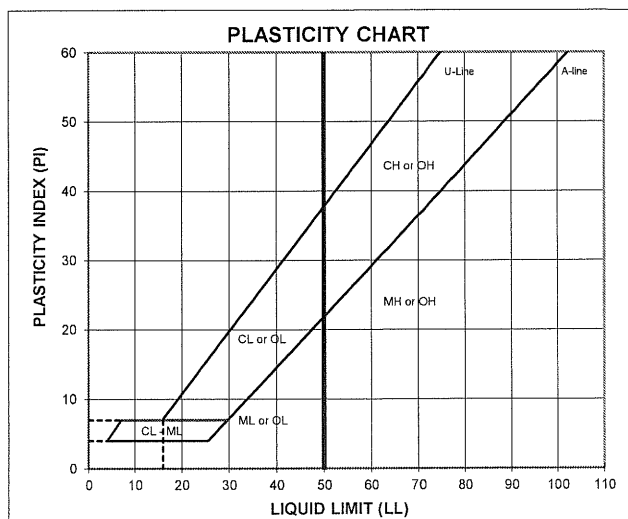
(mm)	% Finer	Classification	Percentage
0.035	23.1		
0.022	21.4		
0.013	19.7		
0.0091	18.0		
0.0065	16.3		
0.0032	12.8		
0.0014	9.4		

Hydrometer Analysis

DESCRIPTION: Light Gray, MEDIUM TO FINE SAND, some silty clay, trace fine gravel.

USCS: (SC)

USDA: Sandy Loam

ATTERBERG LIMITS
Method -B (Dry preparation)

M _c	LL	PL	PI	LI
14.3				

LL (oven-dried)
< 0.75 = ORGANIC (OL/OH)

TECH TW/TJ
DATE 8/31/12
CHECK *adm*
REVIEW *mtg*
APPROVE

PARTICLE SIZE DISTRIBUTION & ATTERBERG LIMITS

ASTM D421, D422, D4318

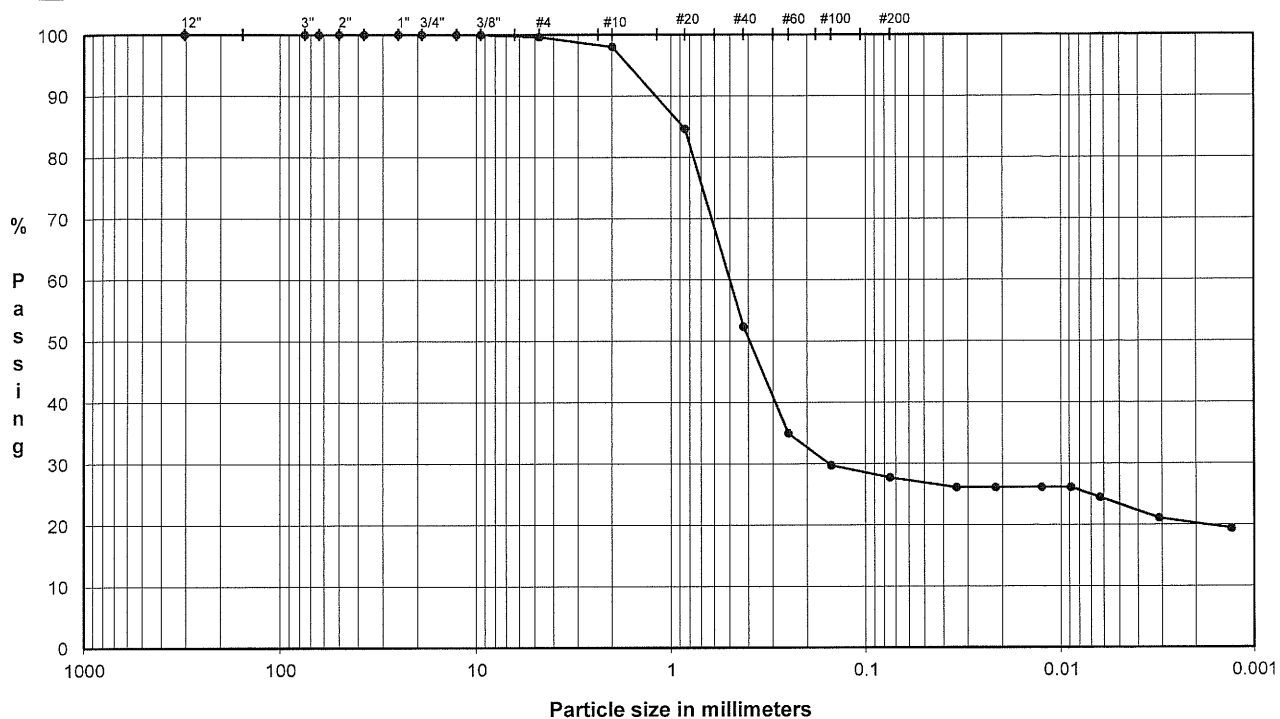
PROJECT NAME: GENESIS PROJECT/VOGUE CLEANERS/GA

SAMPLE ID: MW-2

Depth: 3.0-6.0'

TYPE:

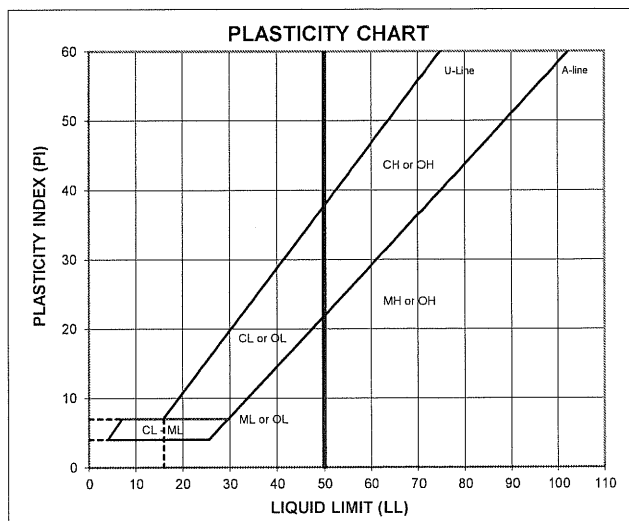
Bag



	Coarse	Fine	Coarse	Medium	Fine	Silt or Clay
COBBLES	GRAVEL		SAND			FINES

U.S. Standard Sieves Sizes and Numbers	Particle Size		Particle Size	
	(mm)	% Passing	Classification	Percentage
	12.0"	304.8	100.0	
	3.0"	75.0	100.0	
	2.5"	63.5	100.0	
	2.0"	50.0	100.0	
	1.5"	37.5	100.0	
	1.0"	25.0	100.0	
	0.75"	19.0	100.0	
	0.50"	12.7	100.0	
	0.375"	9.5	100.0	
	#4	4.8	99.6	
	#10	2.0	98.0	
	#20	0.85	84.7	
	#40	0.43	52.4	
	#60	0.25	35.0	
	#100	0.15	29.7	
	#200	0.075	27.8	
			Cobbles	0.00
			Coarse Gravel	0.00
			Fine Gravel	0.38
			Coarse Sand	1.62
			Medium Sand	45.60
			Fine Sand	24.65

Hydrometer Analysis	Particle Size		Particle Size	
	(mm)	% Finer	Classification	Percentage
	0.034	26.2		
	0.022	26.2		
	0.013	26.2		
	0.0089	26.2		
	0.0063	24.5		
	0.0031	21.1		
	0.0013	19.4		
			Fines	27.76
			Silt or Clay	27.76



ATTERBERG LIMITS

Method -B (Dry preparation)

M _c	LL	PL	PI	LI
14.2				

LL (oven-dried)

< 0.75 - ORGANIC (OL/OH)

DESCRIPTION: Light Brown, MEDIUM TO FINE SAND, some sity clay, trace fine gravel.

USCS: (SC)

USDA: Sandy Clay Loam

TECH: TW/TJ

DATE: 8/31/12

CHECK: *adm*

REVIEW: *adm*

APPROVE: *adm*

PARTICLE SIZE DISTRIBUTION & ATTERBERG LIMITS

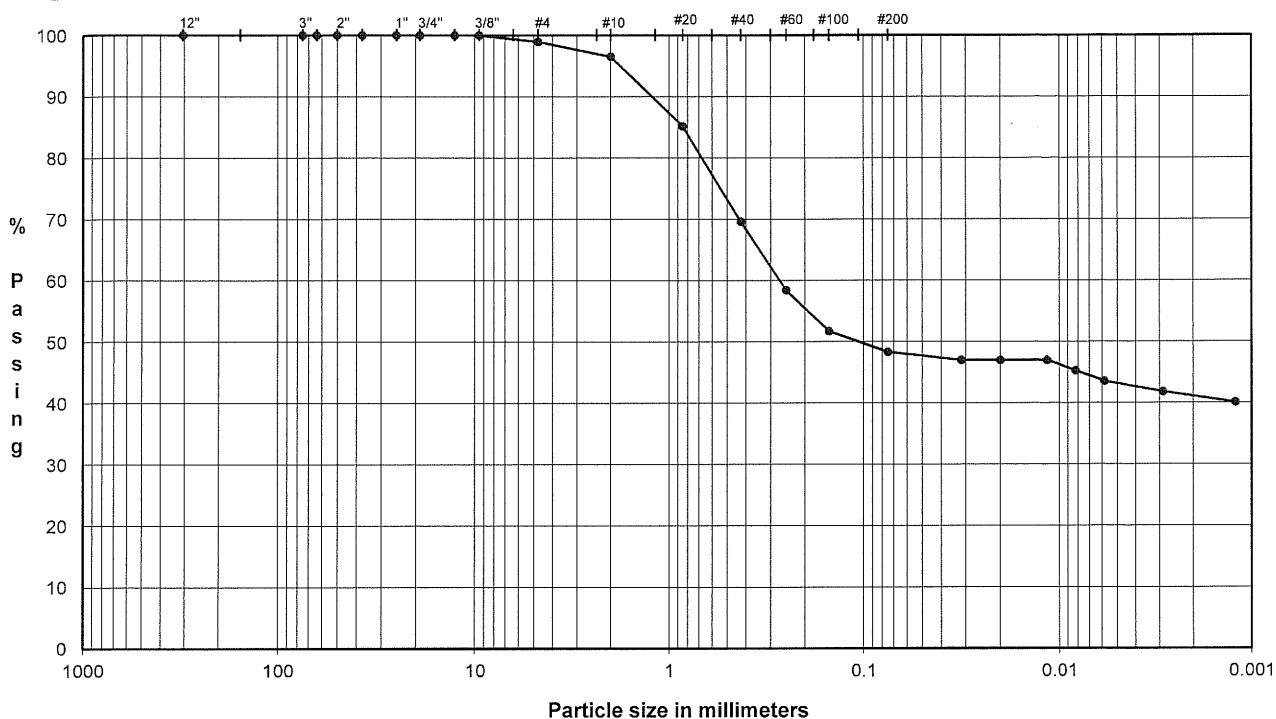
ASTM D421, D422, D4318

PROJECT NAME: GENESIS PROJECT/VOGUE CLEANERS/GA

SAMPLE ID: MW-8

Depth: 1.0-3.0'

TYPE: Bag



	Coarse	Fine	Coarse	Medium	Fine	Silt or Clay
COBBLES	GRAVEL		SAND			FINES

U.S. Standard Sieves Sizes and Numbers

Particle Size (mm)	% Passing	Classification	Percentage
12.0"	304.8	Cobbles	0.00
3.0"	75.0		
2.5"	63.5		
2.0"	50.0		
1.5"	37.5		
1.0"	25.0		
0.75"	19.0	Coarse Gravel	0.00
0.50"	12.7	Fine Gravel	1.04
0.375"	9.5		
#4	4.8		
#10	2.0	Coarse Sand	2.46
#20	0.85	Medium Sand	26.90
#40	0.43		
#60	0.25		
#100	0.15	Fine Sand	21.26
#200	0.075		

Hydrometer Analysis

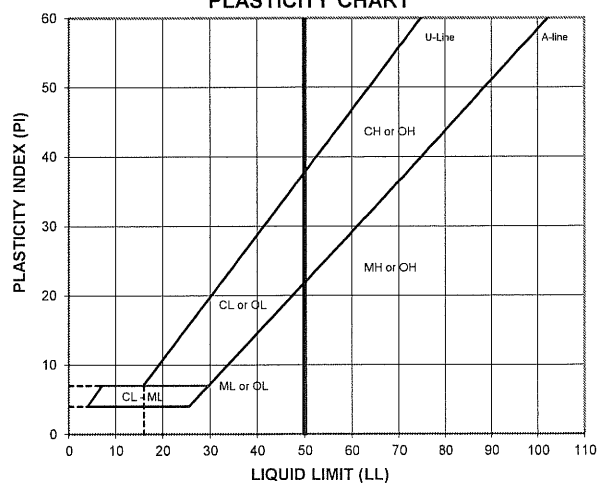
(mm)	% Finer	Classification	Percentage
0.032	47.0	Fines Silt or Clay	48.33
0.020	47.0		
0.012	47.0		
0.0082	45.3		
0.0058	43.6		
0.0029	41.8		
0.0012	40.1		

DESCRIPTION: Brown, MEDIUM TO FINE SAND, and silty clay, trace fine gravel.

USCS: (SC)

USDA: Sandy Clay

PLASTICITY CHART



ATTERBERG LIMITS

Method -B (Dry preparation)

M _c	LL	PL	PI	LI
19.6				

 LL (oven-dried)
 < 0.75 - ORGANIC
 (OL/OH)

 TECH: TW/TJ
 DATE: 8/31/12
 CHECK: *adm*
 REVIEW: *rmw*
 APPROVE:

PARTICLE SIZE DISTRIBUTION & ATTERBERG LIMITS

ASTM D421, D422, D4318

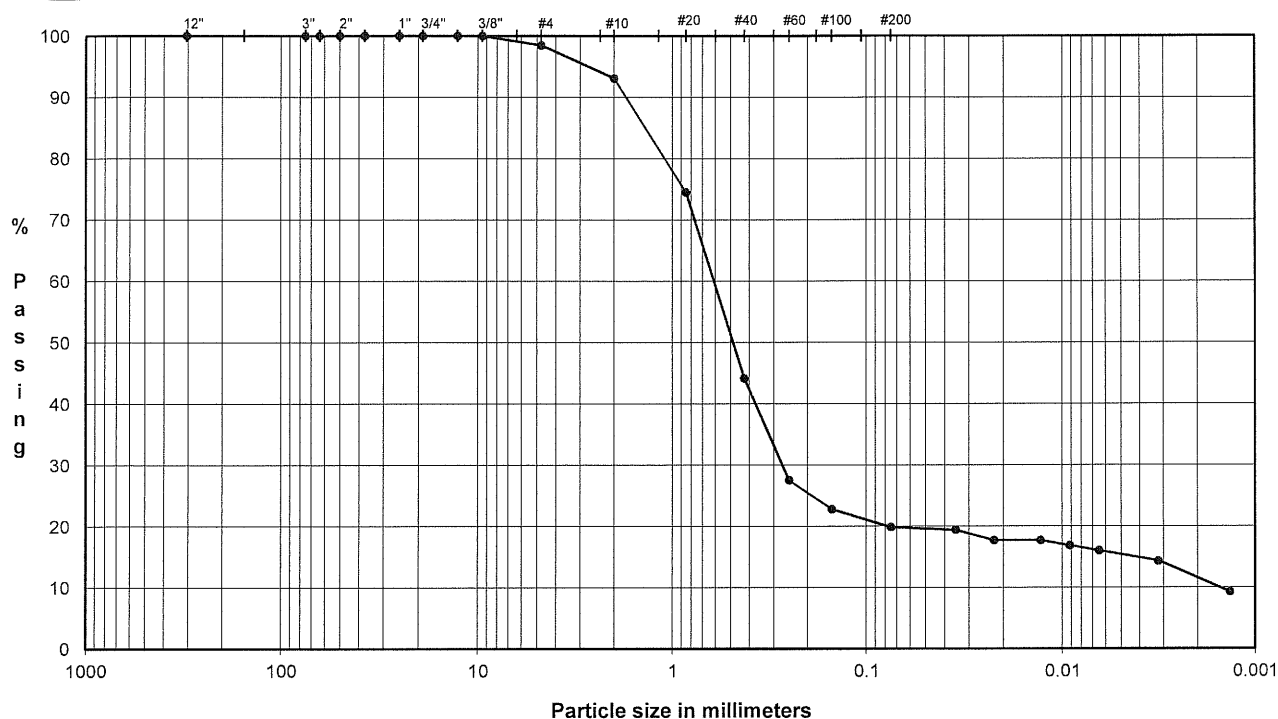
PROJECT NAME: GENESIS PROJECT/VOGUE CLEANERS/GA

SAMPLE ID: MW-8

Depth: 3.0-6.0'

TYPE:

Bag



	Coarse	Fine	Coarse	Medium	Fine	Silt or Clay
COBBLES	GRAVEL		SAND			FINES

U.S. Standard Sieves Sizes and Numbers

Particle Size (mm)	% Passing	Classification	Percentage
12.0"	304.8	Cobbles	0.00
3.0"	75.0		
2.5"	63.5		
2.0"	50.0		
1.5"	37.5		
1.0"	25.0	Coarse Gravel	0.00
0.75"	19.0		
0.50"	12.7		
0.375"	9.5	Fine Gravel	1.54
#4	4.8		
#10	2.0		
#20	0.85	Coarse Sand	5.36
#40	0.43		
#60	0.25		
#100	0.15	Medium Sand	48.91
#200	0.075		
		Fine Sand	24.30

Hydrometer Analysis

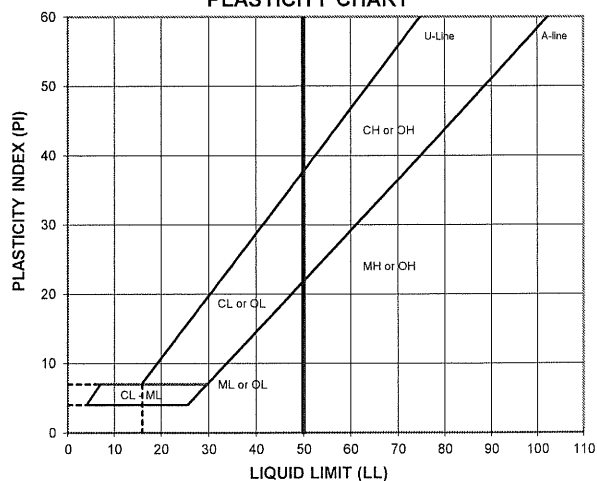
(mm)	% Finer		
0.035	19.4	Fines Silt or Clay	19.89
0.022	17.7		
0.013	17.7		
0.0092	16.9		
0.0065	16.0		
0.0032	14.3		
0.0014	9.3		

DESCRIPTION: Reddish Yellow, MEDIUM TO FINE SAND, some silty clay, trace fine gravel.

USCS: (SC)

USDA: Sandy Loam

PLASTICITY CHART



ATTERBERG LIMITS

Method -B (Dry preparation)

M _c	LL	PL	PI	LI
13.6				

 LL (oven-dried)
 < 0.75 - ORGANIC
 (OL/OH)

 TECH TW/TJ
 DATE 8/31/12
 CHECK *Qem*
 REVIEW *NWM*
 APPROVE

APPENDIX F
LABORATORY ANALYTICAL REPORTS



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 15, 2013

Tiffany Messier
Genesis Project, Inc.
1258 Concord Rd. SE
Smyrna GA 30016

TEL: (770) 319-7217
FAX: (770) 319-7219

RE: Vogue Cleaners

Dear Tiffany Messier:

Order No: 1308732

Analytical Environmental Services, Inc. received 12 samples on 8/8/2013 12:26:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.


AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Dorothy deBruyn
Project Manager

COMPANY: Genesis Project		ADDRESS: 1258 Concord Rd SE Smyrna, GA 30080		ANALYSIS REQUESTED Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers 24	
PHONE: 770-319-7217		FAX: 770-319-7219		PRESERVATION (See codes) 1 2 3 4 5 6 7 8 9 10 11 12 13 14		REMARKS 1 2 3 4 5 6 7 8 9 10 11 12 13 14	
SAMPLED BY: WFM TJM		SIGNATURE: 		DATE/TIME 8/7/13 1240		DATE/TIME 8/8/13 1226	
SAMPLE ID P00-1		SAMPLED DATE TIME		Grab		Composite	
1		8/7/13 1240		X		60	
2		8/7/13 1640		X		60	
3		8/8/13 0900		X		60	
4		8/7/13 1635		Y		60	
5		8/7/13 1505		X		60	
6		8/7/13 1200		X		60	
7		8/7/13 1255		X		60	
8		8/8/13 1010		X		60	
9		8/8/13 0855		X		60	
10		8/7/13 1450		X		60	
11		8/7/13 1520		X		60	
12		Trip Blank		X		60	
13							
14							
RELINQUISHED BY: WFM TJM		RECEIVED BY: [Signature]		DATE/TIME 8/8/13 1226		PROJECT INFORMATION PROJECT NAME: Vogue Cleaners PROJECT #: SITE ADDRESS: SEND REPORT TO: tmesnier@genprayed.com INVOICE TO: (IF DIFFERENT FROM ABOVE)	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD OUT 1 1 VIA: IN CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER		STATE PROGRAM (if any): E-mail? <input checked="" type="checkbox"/> N; Fax? Y/N DATA PACKAGE: I II III IV Turnaround Time Request Standard 5 Business Days 2 Business Day Rush Next Business Day Rush Same Day Rush (auth req.) Other			

Analytical Environmental Services, Inc
Date: 15-Aug-13

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1308732-001

Client Sample ID: POD-1
Collection Date: 8/7/2013 12:40:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
1,1-Dichloroethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
1,1-Dichloroethene	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
1,2-Dibromoethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
1,2-Dichloroethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
1,2-Dichloropropane	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
2-Butanone	BRL	50		ug/L	179700	1	08/12/2013 16:26	GK
2-Hexanone	BRL	10		ug/L	179700	1	08/12/2013 16:26	GK
4-Methyl-2-pentanone	BRL	10		ug/L	179700	1	08/12/2013 16:26	GK
Acetone	150	50		ug/L	179700	1	08/12/2013 16:26	GK
Benzene	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Bromodichloromethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Bromoform	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Bromomethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Carbon disulfide	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Carbon tetrachloride	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Chlorobenzene	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Chloroethane	BRL	10		ug/L	179700	1	08/12/2013 16:26	GK
Chloroform	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Chloromethane	BRL	10		ug/L	179700	1	08/12/2013 16:26	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Cyclohexane	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Dibromochloromethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Dichlorodifluoromethane	BRL	10		ug/L	179700	1	08/12/2013 16:26	GK
Ethylbenzene	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Freon-113	BRL	10		ug/L	179700	1	08/12/2013 16:26	GK
Isopropylbenzene	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
m,p-Xylene	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Methyl acetate	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Methylcyclohexane	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Methylene chloride	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
o-Xylene	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-13

Client: Genesis Project, Inc.	Client Sample ID: POD-1
Project Name: Vogue Cleaners	Collection Date: 8/7/2013 12:40:00 PM
Lab ID: 1308732-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Tetrachloroethene	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Toluene	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Trichloroethene	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Trichlorofluoromethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:26	GK
Vinyl chloride	BRL	2.0		ug/L	179700	1	08/12/2013 16:26	GK
Surr: 4-Bromofluorobenzene	97	64.6-123		%REC	179700	1	08/12/2013 16:26	GK
Surr: Dibromofluoromethane	102	76.6-133		%REC	179700	1	08/12/2013 16:26	GK
Surr: Toluene-d8	102	77.8-120		%REC	179700	1	08/12/2013 16:26	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Aug-13

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1308732-002

Client Sample ID: MW-1
Collection Date: 8/7/2013 4:40:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
1,1-Dichloroethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
1,1-Dichloroethene	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
1,2-Dibromoethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
1,2-Dichloroethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
1,2-Dichloropropane	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
2-Butanone	BRL	50		ug/L	179700	1	08/12/2013 16:56	GK
2-Hexanone	BRL	10		ug/L	179700	1	08/12/2013 16:56	GK
4-Methyl-2-pentanone	BRL	10		ug/L	179700	1	08/12/2013 16:56	GK
Acetone	BRL	50		ug/L	179700	1	08/12/2013 16:56	GK
Benzene	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Bromodichloromethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Bromoform	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Bromomethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Carbon disulfide	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Carbon tetrachloride	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Chlorobenzene	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Chloroethane	BRL	10		ug/L	179700	1	08/12/2013 16:56	GK
Chloroform	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Chloromethane	BRL	10		ug/L	179700	1	08/12/2013 16:56	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Cyclohexane	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Dibromochloromethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Dichlorodifluoromethane	BRL	10		ug/L	179700	1	08/12/2013 16:56	GK
Ethylbenzene	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Freon-113	BRL	10		ug/L	179700	1	08/12/2013 16:56	GK
Isopropylbenzene	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
m,p-Xylene	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Methyl acetate	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Methylcyclohexane	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Methylene chloride	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
o-Xylene	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Aug-13

Client: Genesis Project, Inc.	Client Sample ID: MW-1
Project Name: Vogue Cleaners	Collection Date: 8/7/2013 4:40:00 PM
Lab ID: 1308732-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Tetrachloroethene	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Toluene	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Trichloroethene	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Trichlorofluoromethane	BRL	5.0		ug/L	179700	1	08/12/2013 16:56	GK
Vinyl chloride	BRL	2.0		ug/L	179700	1	08/12/2013 16:56	GK
Surr: 4-Bromofluorobenzene	97.2	64.6-123		%REC	179700	1	08/12/2013 16:56	GK
Surr: Dibromofluoromethane	105	76.6-133		%REC	179700	1	08/12/2013 16:56	GK
Surr: Toluene-d8	103	77.8-120		%REC	179700	1	08/12/2013 16:56	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Aug-13

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1308732-003

Client Sample ID: MW-2R
Collection Date: 8/8/2013 9:00:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
1,1-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
1,1-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
1,2-Dibromoethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
1,2-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
1,2-Dichloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
2-Butanone	BRL	50		ug/L	179700	1	08/13/2013 02:16	GK
2-Hexanone	BRL	10		ug/L	179700	1	08/13/2013 02:16	GK
4-Methyl-2-pentanone	BRL	10		ug/L	179700	1	08/13/2013 02:16	GK
Acetone	BRL	50		ug/L	179700	1	08/13/2013 02:16	GK
Benzene	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Bromodichloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Bromoform	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Bromomethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Carbon disulfide	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Carbon tetrachloride	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Chlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Chloroethane	BRL	10		ug/L	179700	1	08/13/2013 02:16	GK
Chloroform	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Chloromethane	BRL	10		ug/L	179700	1	08/13/2013 02:16	GK
cis-1,2-Dichloroethene	5.4	5.0		ug/L	179700	1	08/13/2013 02:16	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Cyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Dibromochloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Dichlorodifluoromethane	BRL	10		ug/L	179700	1	08/13/2013 02:16	GK
Ethylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Freon-113	BRL	10		ug/L	179700	1	08/13/2013 02:16	GK
Isopropylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
m,p-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Methyl acetate	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Methylcyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Methylene chloride	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
o-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-13

Client: Genesis Project, Inc.	Client Sample ID: MW-2R
Project Name: Vogue Cleaners	Collection Date: 8/8/2013 9:00:00 AM
Lab ID: 1308732-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Tetrachloroethene	25	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Toluene	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Trichloroethene	16	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Trichlorofluoromethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:16	GK
Vinyl chloride	BRL	2.0		ug/L	179700	1	08/13/2013 02:16	GK
Surr: 4-Bromofluorobenzene	98	64.6-123		%REC	179700	1	08/13/2013 02:16	GK
Surr: Dibromofluoromethane	99.1	76.6-133		%REC	179700	1	08/13/2013 02:16	GK
Surr: Toluene-d8	98.9	77.8-120		%REC	179700	1	08/13/2013 02:16	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Aug-13

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1308732-004

Client Sample ID: MW-4
Collection Date: 8/7/2013 4:35:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
1,1-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
1,1-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
1,2-Dibromoethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
1,2-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
1,2-Dichloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
2-Butanone	BRL	50		ug/L	179700	1	08/13/2013 02:46	GK
2-Hexanone	BRL	10		ug/L	179700	1	08/13/2013 02:46	GK
4-Methyl-2-pentanone	BRL	10		ug/L	179700	1	08/13/2013 02:46	GK
Acetone	BRL	50		ug/L	179700	1	08/13/2013 02:46	GK
Benzene	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Bromodichloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Bromoform	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Bromomethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Carbon disulfide	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Carbon tetrachloride	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Chlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Chloroethane	BRL	10		ug/L	179700	1	08/13/2013 02:46	GK
Chloroform	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Chloromethane	BRL	10		ug/L	179700	1	08/13/2013 02:46	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Cyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Dibromochloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Dichlorodifluoromethane	BRL	10		ug/L	179700	1	08/13/2013 02:46	GK
Ethylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Freon-113	BRL	10		ug/L	179700	1	08/13/2013 02:46	GK
Isopropylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
m,p-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Methyl acetate	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Methylcyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Methylene chloride	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
o-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Aug-13

Client: Genesis Project, Inc.	Client Sample ID: MW-4
Project Name: Vogue Cleaners	Collection Date: 8/7/2013 4:35:00 PM
Lab ID: 1308732-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Tetrachloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Toluene	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Trichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Trichlorofluoromethane	BRL	5.0		ug/L	179700	1	08/13/2013 02:46	GK
Vinyl chloride	BRL	2.0		ug/L	179700	1	08/13/2013 02:46	GK
Surr: 4-Bromofluorobenzene	96.8	64.6-123		%REC	179700	1	08/13/2013 02:46	GK
Surr: Dibromofluoromethane	101	76.6-133		%REC	179700	1	08/13/2013 02:46	GK
Surr: Toluene-d8	97.6	77.8-120		%REC	179700	1	08/13/2013 02:46	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Aug-13

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1308732-005

Client Sample ID: MW-5
Collection Date: 8/7/2013 3:05:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
1,1-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
1,1-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
1,2-Dibromoethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
1,2-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
1,2-Dichloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
2-Butanone	BRL	50		ug/L	179700	1	08/13/2013 03:15	GK
2-Hexanone	BRL	10		ug/L	179700	1	08/13/2013 03:15	GK
4-Methyl-2-pentanone	BRL	10		ug/L	179700	1	08/13/2013 03:15	GK
Acetone	BRL	50		ug/L	179700	1	08/13/2013 03:15	GK
Benzene	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Bromodichloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Bromoform	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Bromomethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Carbon disulfide	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Carbon tetrachloride	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Chlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Chloroethane	BRL	10		ug/L	179700	1	08/13/2013 03:15	GK
Chloroform	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Chloromethane	BRL	10		ug/L	179700	1	08/13/2013 03:15	GK
cis-1,2-Dichloroethene	9.2	5.0		ug/L	179700	1	08/13/2013 03:15	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Cyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Dibromochloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Dichlorodifluoromethane	BRL	10		ug/L	179700	1	08/13/2013 03:15	GK
Ethylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Freon-113	BRL	10		ug/L	179700	1	08/13/2013 03:15	GK
Isopropylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
m,p-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Methyl acetate	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Methylcyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Methylene chloride	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
o-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-13

Client: Genesis Project, Inc.
 Project Name: Vogue Cleaners
 Lab ID: 1308732-005

Client Sample ID: MW-5
 Collection Date: 8/7/2013 3:05:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Tetrachloroethene	820	50		ug/L	179700	10	08/13/2013 16:06	GK
Toluene	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Trichloroethene	180	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Trichlorofluoromethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:15	GK
Vinyl chloride	BRL	2.0		ug/L	179700	1	08/13/2013 03:15	GK
Surr: 4-Bromofluorobenzene	97.3	64.6-123		%REC	179700	10	08/13/2013 16:06	GK
Surr: 4-Bromofluorobenzene	98.7	64.6-123		%REC	179700	1	08/13/2013 03:15	GK
Surr: Dibromofluoromethane	98.4	76.6-133		%REC	179700	10	08/13/2013 16:06	GK
Surr: Dibromofluoromethane	101	76.6-133		%REC	179700	1	08/13/2013 03:15	GK
Surr: Toluene-d8	99.3	77.8-120		%REC	179700	1	08/13/2013 03:15	GK
Surr: Toluene-d8	99.2	77.8-120		%REC	179700	10	08/13/2013 16:06	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Aug-13

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1308732-006

Client Sample ID: MW-6
Collection Date: 8/7/2013 12:00:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
1,1-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
1,1-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
1,2-Dibromoethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
1,2-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
1,2-Dichloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
2-Butanone	BRL	50		ug/L	179700	1	08/13/2013 03:45	GK
2-Hexanone	BRL	10		ug/L	179700	1	08/13/2013 03:45	GK
4-Methyl-2-pentanone	BRL	10		ug/L	179700	1	08/13/2013 03:45	GK
Acetone	BRL	50		ug/L	179700	1	08/13/2013 03:45	GK
Benzene	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Bromodichloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Bromoform	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Bromomethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Carbon disulfide	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Carbon tetrachloride	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Chlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Chloroethane	BRL	10		ug/L	179700	1	08/13/2013 03:45	GK
Chloroform	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Chloromethane	BRL	10		ug/L	179700	1	08/13/2013 03:45	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Cyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Dibromochloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Dichlorodifluoromethane	BRL	10		ug/L	179700	1	08/13/2013 03:45	GK
Ethylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Freon-113	BRL	10		ug/L	179700	1	08/13/2013 03:45	GK
Isopropylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
m,p-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Methyl acetate	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Methylcyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Methylene chloride	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
o-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Aug-13

Client: Genesis Project, Inc.	Client Sample ID: MW-6
Project Name: Vogue Cleaners	Collection Date: 8/7/2013 12:00:00 PM
Lab ID: 1308732-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Tetrachloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Toluene	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Trichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Trichlorofluoromethane	BRL	5.0		ug/L	179700	1	08/13/2013 03:45	GK
Vinyl chloride	BRL	2.0		ug/L	179700	1	08/13/2013 03:45	GK
Surr: 4-Bromofluorobenzene	95.6	64.6-123		%REC	179700	1	08/13/2013 03:45	GK
Surr: Dibromofluoromethane	102	76.6-133		%REC	179700	1	08/13/2013 03:45	GK
Surr: Toluene-d8	98.2	77.8-120		%REC	179700	1	08/13/2013 03:45	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Aug-13

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1308732-007

Client Sample ID: MW-7
Collection Date: 8/7/2013 12:55:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
1,1-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
1,1-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
1,2-Dibromoethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
1,2-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
1,2-Dichloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
2-Butanone	BRL	50		ug/L	179700	1	08/13/2013 04:14	GK
2-Hexanone	BRL	10		ug/L	179700	1	08/13/2013 04:14	GK
4-Methyl-2-pentanone	BRL	10		ug/L	179700	1	08/13/2013 04:14	GK
Acetone	BRL	50		ug/L	179700	1	08/13/2013 04:14	GK
Benzene	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Bromodichloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Bromoform	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Bromomethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Carbon disulfide	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Carbon tetrachloride	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Chlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Chloroethane	BRL	10		ug/L	179700	1	08/13/2013 04:14	GK
Chloroform	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Chloromethane	BRL	10		ug/L	179700	1	08/13/2013 04:14	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Cyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Dibromochloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Dichlorodifluoromethane	BRL	10		ug/L	179700	1	08/13/2013 04:14	GK
Ethylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Freon-113	BRL	10		ug/L	179700	1	08/13/2013 04:14	GK
Isopropylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
m,p-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Methyl acetate	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Methylcyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Methylene chloride	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
o-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-13

Client: Genesis Project, Inc.	Client Sample ID: MW-7
Project Name: Vogue Cleaners	Collection Date: 8/7/2013 12:55:00 PM
Lab ID: 1308732-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Tetrachloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Toluene	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Trichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Trichlorofluoromethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:14	GK
Vinyl chloride	BRL	2.0		ug/L	179700	1	08/13/2013 04:14	GK
Surr: 4-Bromofluorobenzene	99.2	64.6-123		%REC	179700	1	08/13/2013 04:14	GK
Surr: Dibromofluoromethane	99.2	76.6-133		%REC	179700	1	08/13/2013 04:14	GK
Surr: Toluene-d8	97.9	77.8-120		%REC	179700	1	08/13/2013 04:14	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Aug-13

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1308732-008

Client Sample ID: MW-8R
Collection Date: 8/8/2013 10:10:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
1,1-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
1,1-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
1,2-Dibromoethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
1,2-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
1,2-Dichloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
2-Butanone	BRL	50		ug/L	179700	1	08/13/2013 04:44	GK
2-Hexanone	BRL	10		ug/L	179700	1	08/13/2013 04:44	GK
4-Methyl-2-pentanone	BRL	10		ug/L	179700	1	08/13/2013 04:44	GK
Acetone	BRL	50		ug/L	179700	1	08/13/2013 04:44	GK
Benzene	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
Bromodichloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
Bromoform	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
Bromomethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
Carbon disulfide	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
Carbon tetrachloride	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
Chlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
Chloroethane	BRL	10		ug/L	179700	1	08/13/2013 04:44	GK
Chloroform	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
Chloromethane	BRL	10		ug/L	179700	1	08/13/2013 04:44	GK
cis-1,2-Dichloroethene	43	5.0		ug/L	179700	1	08/13/2013 04:44	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
Cyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
Dibromochloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
Dichlorodifluoromethane	BRL	10		ug/L	179700	1	08/13/2013 04:44	GK
Ethylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
Freon-113	BRL	10		ug/L	179700	1	08/13/2013 04:44	GK
Isopropylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
m,p-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
Methyl acetate	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
Methylcyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
Methylene chloride	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
o-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-13

Client: Genesis Project, Inc.	Client Sample ID: MW-8R
Project Name: Vogue Cleaners	Collection Date: 8/8/2013 10:10:00 AM
Lab ID: 1308732-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
Tetrachloroethene	1800	100		ug/L	179700	20	08/13/2013 15:36	GK
Toluene	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
Trichloroethene	1300	100		ug/L	179700	20	08/13/2013 15:36	GK
Trichlorofluoromethane	BRL	5.0		ug/L	179700	1	08/13/2013 04:44	GK
Vinyl chloride	BRL	2.0		ug/L	179700	1	08/13/2013 04:44	GK
Surr: 4-Bromofluorobenzene	96.9	64.6-123		%REC	179700	1	08/13/2013 04:44	GK
Surr: 4-Bromofluorobenzene	97.4	64.6-123		%REC	179700	20	08/13/2013 15:36	GK
Surr: Dibromofluoromethane	102	76.6-133		%REC	179700	20	08/13/2013 15:36	GK
Surr: Dibromofluoromethane	101	76.6-133		%REC	179700	1	08/13/2013 04:44	GK
Surr: Toluene-d8	101	77.8-120		%REC	179700	20	08/13/2013 15:36	GK
Surr: Toluene-d8	98.4	77.8-120		%REC	179700	1	08/13/2013 04:44	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-13

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1308732-009

Client Sample ID: MW-8D
Collection Date: 8/8/2013 8:55:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
1,1-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
1,1-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
1,2-Dibromoethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
1,2-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
1,2-Dichloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
2-Butanone	BRL	50		ug/L	179700	1	08/13/2013 05:13	GK
2-Hexanone	BRL	10		ug/L	179700	1	08/13/2013 05:13	GK
4-Methyl-2-pentanone	BRL	10		ug/L	179700	1	08/13/2013 05:13	GK
Acetone	280	50		ug/L	179700	1	08/13/2013 05:13	GK
Benzene	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Bromodichloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Bromoform	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Bromomethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Carbon disulfide	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Carbon tetrachloride	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Chlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Chloroethane	BRL	10		ug/L	179700	1	08/13/2013 05:13	GK
Chloroform	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Chloromethane	BRL	10		ug/L	179700	1	08/13/2013 05:13	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Cyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Dibromochloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Dichlorodifluoromethane	BRL	10		ug/L	179700	1	08/13/2013 05:13	GK
Ethylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Freon-113	BRL	10		ug/L	179700	1	08/13/2013 05:13	GK
Isopropylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
m,p-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Methyl acetate	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Methylcyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Methylene chloride	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
o-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Aug-13

Client: Genesis Project, Inc.	Client Sample ID: MW-8D
Project Name: Vogue Cleaners	Collection Date: 8/8/2013 8:55:00 AM
Lab ID: 1308732-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Tetrachloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Toluene	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Trichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Trichlorofluoromethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:13	GK
Vinyl chloride	BRL	2.0		ug/L	179700	1	08/13/2013 05:13	GK
Surr: 4-Bromofluorobenzene	96.8	64.6-123		%REC	179700	1	08/13/2013 05:13	GK
Surr: Dibromofluoromethane	100	76.6-133		%REC	179700	1	08/13/2013 05:13	GK
Surr: Toluene-d8	99.5	77.8-120		%REC	179700	1	08/13/2013 05:13	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Aug-13

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1308732-010

Client Sample ID: MW-12D
Collection Date: 8/7/2013 2:50:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
1,1-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
1,1-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
1,2-Dibromoethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
1,2-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
1,2-Dichloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
2-Butanone	BRL	50		ug/L	179700	1	08/13/2013 05:42	GK
2-Hexanone	BRL	10		ug/L	179700	1	08/13/2013 05:42	GK
4-Methyl-2-pentanone	BRL	10		ug/L	179700	1	08/13/2013 05:42	GK
Acetone	BRL	50		ug/L	179700	1	08/13/2013 05:42	GK
Benzene	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Bromodichloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Bromoform	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Bromomethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Carbon disulfide	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Carbon tetrachloride	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Chlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Chloroethane	BRL	10		ug/L	179700	1	08/13/2013 05:42	GK
Chloroform	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Chloromethane	BRL	10		ug/L	179700	1	08/13/2013 05:42	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Cyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Dibromochloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Dichlorodifluoromethane	BRL	10		ug/L	179700	1	08/13/2013 05:42	GK
Ethylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Freon-113	BRL	10		ug/L	179700	1	08/13/2013 05:42	GK
Isopropylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
m,p-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Methyl acetate	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Methylcyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Methylene chloride	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
o-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Aug-13

Client: Genesis Project, Inc.	Client Sample ID: MW-12D
Project Name: Vogue Cleaners	Collection Date: 8/7/2013 2:50:00 PM
Lab ID: 1308732-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Tetrachloroethene	19	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Toluene	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Trichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Trichlorofluoromethane	BRL	5.0		ug/L	179700	1	08/13/2013 05:42	GK
Vinyl chloride	BRL	2.0		ug/L	179700	1	08/13/2013 05:42	GK
Surr: 4-Bromofluorobenzene	97.2	64.6-123		%REC	179700	1	08/13/2013 05:42	GK
Surr: Dibromofluoromethane	101	76.6-133		%REC	179700	1	08/13/2013 05:42	GK
Surr: Toluene-d8	97.6	77.8-120		%REC	179700	1	08/13/2013 05:42	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Aug-13

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1308732-011

Client Sample ID: MW-22
Collection Date: 8/7/2013 3:20:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
1,1-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
1,1-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
1,2-Dibromoethane	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
1,2-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
1,2-Dichloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
2-Butanone	BRL	50		ug/L	179700	1	08/13/2013 06:12	GK
2-Hexanone	BRL	10		ug/L	179700	1	08/13/2013 06:12	GK
4-Methyl-2-pentanone	BRL	10		ug/L	179700	1	08/13/2013 06:12	GK
Acetone	BRL	50		ug/L	179700	1	08/13/2013 06:12	GK
Benzene	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Bromodichloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Bromoform	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Bromomethane	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Carbon disulfide	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Carbon tetrachloride	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Chlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Chloroethane	BRL	10		ug/L	179700	1	08/13/2013 06:12	GK
Chloroform	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Chloromethane	BRL	10		ug/L	179700	1	08/13/2013 06:12	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Cyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Dibromochloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Dichlorodifluoromethane	BRL	10		ug/L	179700	1	08/13/2013 06:12	GK
Ethylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Freon-113	BRL	10		ug/L	179700	1	08/13/2013 06:12	GK
Isopropylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
m,p-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Methyl acetate	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Methylcyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Methylene chloride	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
o-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 15-Aug-13

Client: Genesis Project, Inc.	Client Sample ID: MW-22
Project Name: Vogue Cleaners	Collection Date: 8/7/2013 3:20:00 PM
Lab ID: 1308732-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Tetrachloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Toluene	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Trichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Trichlorofluoromethane	BRL	5.0		ug/L	179700	1	08/13/2013 06:12	GK
Vinyl chloride	BRL	2.0		ug/L	179700	1	08/13/2013 06:12	GK
Surr: 4-Bromofluorobenzene	99.1	64.6-123		%REC	179700	1	08/13/2013 06:12	GK
Surr: Dibromofluoromethane	99.6	76.6-133		%REC	179700	1	08/13/2013 06:12	GK
Surr: Toluene-d8	98.6	77.8-120		%REC	179700	1	08/13/2013 06:12	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Aug-13

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1308732-012

Client Sample ID: TRIPBLANK
Collection Date: 8/8/2013
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
1,1-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
1,1-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
1,2-Dibromoethane	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
1,2-Dichloroethane	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
1,2-Dichloropropane	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
2-Butanone	BRL	50		ug/L	179700	1	08/13/2013 01:47	GK
2-Hexanone	BRL	10		ug/L	179700	1	08/13/2013 01:47	GK
4-Methyl-2-pentanone	BRL	10		ug/L	179700	1	08/13/2013 01:47	GK
Acetone	BRL	50		ug/L	179700	1	08/13/2013 01:47	GK
Benzene	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Bromodichloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Bromoform	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Bromomethane	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Carbon disulfide	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Carbon tetrachloride	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Chlorobenzene	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Chloroethane	BRL	10		ug/L	179700	1	08/13/2013 01:47	GK
Chloroform	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Chloromethane	BRL	10		ug/L	179700	1	08/13/2013 01:47	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Cyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Dibromochloromethane	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Dichlorodifluoromethane	BRL	10		ug/L	179700	1	08/13/2013 01:47	GK
Ethylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Freon-113	BRL	10		ug/L	179700	1	08/13/2013 01:47	GK
Isopropylbenzene	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
m,p-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Methyl acetate	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Methylcyclohexane	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Methylene chloride	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
o-Xylene	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 15-Aug-13

Client: Genesis Project, Inc.	Client Sample ID: TRIPBLANK
Project Name: Vogue Cleaners	Collection Date: 8/8/2013
Lab ID: 1308732-012	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Tetrachloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Toluene	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Trichloroethene	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Trichlorofluoromethane	BRL	5.0		ug/L	179700	1	08/13/2013 01:47	GK
Vinyl chloride	BRL	2.0		ug/L	179700	1	08/13/2013 01:47	GK
Surr: 4-Bromofluorobenzene	96.8	64.6-123		%REC	179700	1	08/13/2013 01:47	GK
Surr: Dibromofluoromethane	100	76.6-133		%REC	179700	1	08/13/2013 01:47	GK
Surr: Toluene-d8	98.5	77.8-120		%REC	179700	1	08/13/2013 01:47	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Genesis Project Work Order Number 1308732

Checklist completed by Stephen Malphrus Signature Date 8/9/13

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ☒ No ☐

Cooler #1 3.2°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ☐
Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Genesis Project, Inc.
 Project Name: Vogue Cleaners
 Workorder: 1308732

ANALYTICAL QC SUMMARY REPORT

BatchID: 179700

Sample ID: MB-179700	Client ID:					Units: ug/L	Prep Date: 08/12/2013	Run No: 249720			
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 179700	Analysis Date: 08/12/2013	Seq No: 5234318			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0
1,1,2,2-Tetrachloroethane	BRL	5.0
1,1,2-Trichloroethane	BRL	5.0
1,1-Dichloroethane	BRL	5.0
1,1-Dichloroethene	BRL	5.0
1,2,4-Trichlorobenzene	BRL	5.0
1,2-Dibromo-3-chloropropane	BRL	5.0
1,2-Dibromoethane	BRL	5.0
1,2-Dichlorobenzene	BRL	5.0
1,2-Dichloroethane	BRL	5.0
1,2-Dichloropropane	BRL	5.0
1,3-Dichlorobenzene	BRL	5.0
1,4-Dichlorobenzene	BRL	5.0
2-Butanone	BRL	50
2-Hexanone	BRL	10
4-Methyl-2-pentanone	BRL	10
Acetone	BRL	50
Benzene	BRL	5.0
Bromodichloromethane	BRL	5.0
Bromoform	BRL	5.0
Bromomethane	BRL	5.0
Carbon disulfide	BRL	5.0
Carbon tetrachloride	BRL	5.0
Chlorobenzene	BRL	5.0
Chloroethane	BRL	10
Chloroform	BRL	5.0
Chloromethane	BRL	10

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Genesis Project, Inc.
 Project Name: Vogue Cleaners
 Workorder: 1308732

ANALYTICAL QC SUMMARY REPORT

BatchID: 179700

Sample ID: MB-179700	Client ID:				Units: ug/L			Prep Date: 08/12/2013	Run No: 249720		
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS	SW8260B			BatchID: 179700			Analysis Date: 08/12/2013	Seq No: 5234318		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	49.83	0	50.00		99.7	64.6	123				
Surr: Dibromofluoromethane	51.56	0	50.00		103	76.6	133				
Surr: Toluene-d8	50.33	0	50.00		101	77.8	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Genesis Project, Inc.
 Project Name: Vogue Cleaners
 Workorder: 1308732

ANALYTICAL QC SUMMARY REPORT

BatchID: 179700

Sample ID: LCS-179700	Client ID:					Units: ug/L	Prep Date: 08/12/2013	Run No: 249720			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 179700	Analysis Date: 08/12/2013	Seq No: 5234317			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	59.14	5.0	50.00		118	61.1	142				
Benzene	54.74	5.0	50.00		109	73.5	130				
Chlorobenzene	56.24	5.0	50.00		112	72.4	123				
Toluene	56.71	5.0	50.00		113	73.6	130				
Trichloroethene	62.65	5.0	50.00		125	70	135				
Surr: 4-Bromofluorobenzene	49.15	0	50.00		98.3	64.6	123				
Surr: Dibromofluoromethane	53.38	0	50.00		107	76.6	133				
Surr: Toluene-d8	50.46	0	50.00		101	77.8	120				

Sample ID: 1308732-002AMS	Client ID: MW-1	Units: ug/L			Prep Date: 08/12/2013	Run No: 249720					
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 179700			Analysis Date: 08/12/2013	Seq No: 5235516					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	58.18	5.0	50.00		116	60	168				
Benzene	56.25	5.0	50.00	2.560	107	66.6	148				
Chlorobenzene	59.20	5.0	50.00		118	71.9	135				
Toluene	55.51	5.0	50.00		111	68	149				
Trichloroethene	60.99	5.0	50.00		122	71.1	154				
Surr: 4-Bromofluorobenzene	49.25	0	50.00		98.5	64.6	123				
Surr: Dibromofluoromethane	52.86	0	50.00		106	76.6	133				
Surr: Toluene-d8	50.05	0	50.00		100	77.8	120				

Sample ID: 1308732-002AMSD	Client ID: MW-1	Units: ug/L			Prep Date: 08/12/2013	Run No: 249720					
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 179700			Analysis Date: 08/12/2013	Seq No: 5235518					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	55.05	5.0	50.00		110	60	168	58.18	5.53	18.6	
Benzene	55.17	5.0	50.00	2.560	105	66.6	148	56.25	1.94	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Workorder: 1308732

ANALYTICAL QC SUMMARY REPORT

BatchID: 179700

Sample ID: 1308732-002AMSD	Client ID: MW-1	Units: ug/L				Prep Date: 08/12/2013	Run No: 249720				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 179700				Analysis Date: 08/12/2013	Seq No: 5235518				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	58.82	5.0	50.00		118	71.9	135	59.20	0.644	20	
Toluene	55.60	5.0	50.00		111	68	149	55.51	0.162	20	
Trichloroethene	60.11	5.0	50.00		120	71.1	154	60.99	1.45	20	
Surr: 4-Bromofluorobenzene	48.96	0	50.00		97.9	64.6	123	49.25	0	0	
Surr: Dibromofluoromethane	53.00	0	50.00		106	76.6	133	52.86	0	0	
Surr: Toluene-d8	50.89	0	50.00		102	77.8	120	50.05	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 29, 2013

Tiffany Messier
Genesis Project, Inc.
1258 Concord Rd. SE
Smyrna GA 30016

TEL: (770) 319-7217
FAX: (770) 319-7219

RE: Vogue Cleaners

Dear Tiffany Messier:

Order No: 1308M82

Analytical Environmental Services, Inc. received 2 samples on 8/23/2013 3:18:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Dorothy deBruyn
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1308M02

DATE: 8/23/13 Page 1 of 1

COMPANY: Genesis Project ADDRESS: 1258 Concord Rd SE Smyrna, GA 30080 PHONE: 770-314-7217 FAX: 770-314-7214 SAMPLED BY:		ANALYSIS REQUESTED Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers						
#	SAMPLE ID	SAMPLED		DATE	TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS
		DATE	TIME							
1	MW 5	8/23/13	1235	8/23/13	1215	X		GW		2
2	MW 8R	8/23/13	1215	8/23/13	1215	X		GW		2
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: <i>[Signature]</i>	8/23/13 1518	1: <i>[Signature]</i>	8/23/13 3:18 PM
2: <i>[Signature]</i>		2: <i>[Signature]</i>	
3: <i>[Signature]</i>		3: <i>[Signature]</i>	

SPECIAL INSTRUCTIONS/COMMENTS:	SHIPMENT METHOD	
	OUT	IN
	CLIENT	GREYHOUND
	VIA: FedEx	VIA: UPS MAIL
	VIA: COURIER	VIA: OTHER

PROJECT INFORMATION	
PROJECT NAME:	Vogue Cleaners
PROJECT #:	
SITE ADDRESS:	
SEND REPORT TO: <i>[Signature]</i> mes@voguecleaners.com	
INVOICE TO: (IF DIFFERENT FROM ABOVE)	
QUOTE #:	
PO#:	

RECEIPT	
Total # of Containers	4
Turnaround Time Request	
Standard 5 Business Days	
2 Business Day Rush	
Next Business Day Rush	
Same Day Rush (auth req.)	
Other	
STATE PROGRAM (if any):	
E-mail? <input checked="" type="checkbox"/> N	Fax? <input type="checkbox"/> Y / <input type="checkbox"/> N
DATA PACKAGE: I II III IV	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.
 MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc
Date: 29-Aug-13

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1308M82-001

Client Sample ID: MW 5
Collection Date: 8/23/2013 12:35:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
1,1-Dichloroethane	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
1,1-Dichloroethene	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
1,2-Dibromoethane	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
1,2-Dichloroethane	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
1,2-Dichloropropane	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
2-Butanone	BRL	50		ug/L	180460	1	08/28/2013 17:09	AK
2-Hexanone	BRL	10		ug/L	180460	1	08/28/2013 17:09	AK
4-Methyl-2-pentanone	BRL	10		ug/L	180460	1	08/28/2013 17:09	AK
Acetone	BRL	50		ug/L	180460	1	08/28/2013 17:09	AK
Benzene	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Bromodichloromethane	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Bromoform	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Bromomethane	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Carbon disulfide	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Carbon tetrachloride	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Chlorobenzene	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Chloroethane	BRL	10		ug/L	180460	1	08/28/2013 17:09	AK
Chloroform	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Chloromethane	BRL	10		ug/L	180460	1	08/28/2013 17:09	AK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Cyclohexane	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Dibromochloromethane	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Dichlorodifluoromethane	BRL	10		ug/L	180460	1	08/28/2013 17:09	AK
Ethylbenzene	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Freon-113	BRL	10		ug/L	180460	1	08/28/2013 17:09	AK
Isopropylbenzene	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
m,p-Xylene	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Methyl acetate	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Methylcyclohexane	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Methylene chloride	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
o-Xylene	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 29-Aug-13

Client: Genesis Project, Inc.	Client Sample ID: MW 5
Project Name: Vogue Cleaners	Collection Date: 8/23/2013 12:35:00 PM
Lab ID: 1308M82-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Tetrachloroethene	140	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Toluene	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Trichloroethene	26	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Trichlorofluoromethane	BRL	5.0		ug/L	180460	1	08/28/2013 17:09	AK
Vinyl chloride	BRL	2.0		ug/L	180460	1	08/28/2013 17:09	AK
Surr: 4-Bromofluorobenzene	86.2	64.6-123		%REC	180460	1	08/28/2013 17:09	AK
Surr: Dibromofluoromethane	106	76.6-133		%REC	180460	1	08/28/2013 17:09	AK
Surr: Toluene-d8	95.1	77.8-120		%REC	180460	1	08/28/2013 17:09	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 29-Aug-13

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1308M82-002

Client Sample ID: MW 8R
Collection Date: 8/23/2013 12:15:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
1,1-Dichloroethane	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
1,1-Dichloroethene	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
1,2-Dibromoethane	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
1,2-Dichloroethane	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
1,2-Dichloropropane	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
2-Butanone	BRL	50		ug/L	180460	1	08/28/2013 18:33	AK
2-Hexanone	BRL	10		ug/L	180460	1	08/28/2013 18:33	AK
4-Methyl-2-pentanone	BRL	10		ug/L	180460	1	08/28/2013 18:33	AK
Acetone	BRL	50		ug/L	180460	1	08/28/2013 18:33	AK
Benzene	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Bromodichloromethane	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Bromoform	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Bromomethane	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Carbon disulfide	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Carbon tetrachloride	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Chlorobenzene	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Chloroethane	BRL	10		ug/L	180460	1	08/28/2013 18:33	AK
Chloroform	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Chloromethane	BRL	10		ug/L	180460	1	08/28/2013 18:33	AK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Cyclohexane	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Dibromochloromethane	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Dichlorodifluoromethane	BRL	10		ug/L	180460	1	08/28/2013 18:33	AK
Ethylbenzene	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Freon-113	BRL	10		ug/L	180460	1	08/28/2013 18:33	AK
Isopropylbenzene	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
m,p-Xylene	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Methyl acetate	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Methylcyclohexane	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Methylene chloride	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
o-Xylene	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 29-Aug-13

Client: Genesis Project, Inc.	Client Sample ID: MW 8R
Project Name: Vogue Cleaners	Collection Date: 8/23/2013 12:15:00 PM
Lab ID: 1308M82-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Tetrachloroethene	16	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Toluene	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Trichloroethene	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Trichlorofluoromethane	BRL	5.0		ug/L	180460	1	08/28/2013 18:33	AK
Vinyl chloride	BRL	2.0		ug/L	180460	1	08/28/2013 18:33	AK
Surr: 4-Bromofluorobenzene	87.4	64.6-123		%REC	180460	1	08/28/2013 18:33	AK
Surr: Dibromofluoromethane	104	76.6-133		%REC	180460	1	08/28/2013 18:33	AK
Surr: Toluene-d8	96.9	77.8-120		%REC	180460	1	08/28/2013 18:33	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Genosis

Work Order Number 1308M82

Checklist completed by [Signature] Date 8/23/13

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ☒ No ☐

Cooler #1 36 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\\Checklists Procedures Sign-Off Templates\\Checklists\\Sample Receipt Checklists\\Sample_Cooler_Receipt_Checklist

Client: Genesis Project, Inc.
 Project Name: Vogue Cleaners
 Workorder: 1308M82

ANALYTICAL QC SUMMARY REPORT

BatchID: 180460

Sample ID: MB-180460	Client ID:					Units: ug/L	Prep Date: 08/28/2013		Run No: 250855		
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 180460	Analysis Date: 08/28/2013		Seq No: 5263988		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Workorder: 1308M82

ANALYTICAL QC SUMMARY REPORT**BatchID: 180460**

Sample ID: MB-180460	Client ID:					Units: ug/L	Prep Date: 08/28/2013		Run No: 250855		
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS	SW8260B				BatchID: 180460	Analysis Date: 08/28/2013		Seq No: 5263988		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	44.39	0	50.00		88.8	64.6	123				
Surr: Dibromofluoromethane	50.27	0	50.00		101	76.6	133				
Surr: Toluene-d8	47.40	0	50.00		94.8	77.8	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Workorder: 1308M82

ANALYTICAL QC SUMMARY REPORT**BatchID: 180460**

Sample ID: LCS-180460	Client ID:					Units: ug/L	Prep Date: 08/28/2013	Run No: 250855			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 180460	Analysis Date: 08/28/2013	Seq No: 5263985			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.95	5.0	50.00		106	61.1	142				
Benzene	47.79	5.0	50.00		95.6	73.5	130				
Chlorobenzene	56.27	5.0	50.00		113	72.4	123				
Toluene	49.57	5.0	50.00		99.1	73.6	130				
Trichloroethene	49.82	5.0	50.00		99.6	70	135				
Surr: 4-Bromofluorobenzene	48.53	0	50.00		97.1	64.6	123				
Surr: Dibromofluoromethane	51.88	0	50.00		104	76.6	133				
Surr: Toluene-d8	51.57	0	50.00		103	77.8	120				

Sample ID: 1308M82-001AMS	Client ID: MW 5	Units: ug/L			Prep Date: 08/28/2013	Run No: 250855					
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 180460			Analysis Date: 08/28/2013	Seq No: 5263990					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	55.80	5.0	50.00		112	60	168				
Benzene	51.41	5.0	50.00		103	66.6	148				
Chlorobenzene	59.93	5.0	50.00		120	71.9	135				
Toluene	53.11	5.0	50.00		106	68	149				
Trichloroethene	81.21	5.0	50.00	25.82	111	71.1	154				
Surr: 4-Bromofluorobenzene	49.21	0	50.00		98.4	64.6	123				
Surr: Dibromofluoromethane	53.82	0	50.00		108	76.6	133				
Surr: Toluene-d8	48.60	0	50.00		97.2	77.8	120				

Sample ID: 1308M82-001AMSD	Client ID: MW 5	Units: ug/L				Prep Date: 08/28/2013	Run No: 250855				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 180460				Analysis Date: 08/28/2013	Seq No: 5263991				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.87	5.0	50.00		106	60	168	55.80	5.39	18.6	
Benzene	50.79	5.0	50.00		102	66.6	148	51.41	1.21	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Workorder: 1308M82

ANALYTICAL QC SUMMARY REPORT

BatchID: 180460

Sample ID: 1308M82-001AMSD	Client ID: MW 5	Units: ug/L	Prep Date: 08/28/2013	Run No: 250855							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 180460	Analysis Date: 08/28/2013	Seq No: 5263991							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	60.18	5.0	50.00		120	71.9	135	59.93	0.416	20	
Toluene	51.48	5.0	50.00		103	68	149	53.11	3.12	20	
Trichloroethene	82.00	5.0	50.00	25.82	112	71.1	154	81.21	0.968	20	
Surr: 4-Bromofluorobenzene	49.52	0	50.00		99.0	64.6	123	49.21	0	0	
Surr: Dibromofluoromethane	52.70	0	50.00		105	76.6	133	53.82	0	0	
Surr: Toluene-d8	48.08	0	50.00		96.2	77.8	120	48.60	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

25 June 2013

Mr. Jim Fineis
Atlas Geo-Sampling Company
120 Nottaway Lane
Alpharetta, GA 30009



H&P Project: AG061413-11
Client Project: Genesis Augusta

Dear Mr. Jim Fineis:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 14-Jun-13 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody

Unless otherwise noted, all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

A handwritten signature in cursive script that reads "Janis Villarreal".

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry, Inc. operates under CA Environmental Lab Accreditation Program Numbers 2579, 2740, 2741, 2742, 2743, 2745 and 2754. National Environmental Laboratory Accreditation Conference (NELAC) Standards Lab #11845

Atlas Geo-Sampling Company
120 Nottaway Lane
Alpharetta, GA 30009

Project: AG061413-11
Project Number: Genesis Augusta
Project Manager: Mr. Jim Fineis

Reported:
25-Jun-13 12:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV-1	E306081-01	Vapor	12-Jun-13	14-Jun-13
SV-2	E306081-02	Vapor	12-Jun-13	14-Jun-13
SV-4	E306081-03	Vapor	12-Jun-13	14-Jun-13
SV-3	E306081-04	Vapor	12-Jun-13	14-Jun-13
SV-5	E306081-05	Vapor	12-Jun-13	14-Jun-13

Atlas Geo-Sampling Company
120 Nottaway Lane
Alpharetta, GA 30009

Project: AG061413-11
Project Number: Genesis Augusta
Project Manager: Mr. Jim Fineis

Reported:
25-Jun-13 12:13

DETECTIONS SUMMARY

Sample ID: SV-1

Laboratory ID: E306081-01

Analyte	Result	Reporting Limit	Units	Method	Notes
Acetone	84	48	ug/m3	EPA TO-15	
Toluene	7.8	7.6	ug/m3	EPA TO-15	
Tetrachloroethene	2300	14	ug/m3	EPA TO-15	

Sample ID: SV-2

Laboratory ID: E306081-02

Analyte	Result	Reporting Limit	Units	Method	Notes
Acetone	69	24	ug/m3	EPA TO-15	
4-Methyl-2-pentanone (MIBK)	12	8.3	ug/m3	EPA TO-15	
Toluene	11	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	480	6.9	ug/m3	EPA TO-15	
m,p-Xylene	22	8.8	ug/m3	EPA TO-15	
o-Xylene	9.2	4.4	ug/m3	EPA TO-15	
1,3,5-Trimethylbenzene	8.9	5.0	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	20	5.0	ug/m3	EPA TO-15	

Sample ID: SV-4

Laboratory ID: E306081-03

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	130	40	ug/m3	EPA TO-15	
Trichloroethene	1400	55	ug/m3	EPA TO-15	
Tetrachloroethene	47000	280	ug/m3	EPA TO-15	

Sample ID: SV-3

Laboratory ID: E306081-04

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	100	27	ug/m3	EPA TO-15	
Tetrachloroethene	7800	34	ug/m3	EPA TO-15	

Sample ID: SV-5

Laboratory ID: E306081-05

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	680	55	ug/m3	EPA TO-15	
Tetrachloroethene	29000	69	ug/m3	EPA TO-15	

Atlas Geo-Sampling Company
120 Nottaway Lane
Alpharetta, GA 30009

Project: AG061413-11
Project Number: Genesis Augusta
Project Manager: Mr. Jim Fineis

Reported:
25-Jun-13 12:13

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-1 (E306081-01) Vapor Sampled: 12-Jun-13 Received: 14-Jun-13									
Dichlorodifluoromethane (F12)	ND	10	ug/m3	2	EF31905	19-Jun-13	19-Jun-13	EPA TO-15	
Chloromethane	ND	4.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	14	"	"	"	"	"	"	
Vinyl chloride	ND	5.2	"	"	"	"	"	"	
Bromomethane	ND	32	"	"	"	"	"	"	
Chloroethane	ND	16	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	11	"	"	"	"	"	"	
Acetone	84	48	"	"	"	"	"	"	
1,1-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	15	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	7.1	"	"	"	"	"	"	
Carbon disulfide	ND	13	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	16	"	"	"	"	"	"	
1,1-Dichloroethane	ND	8.2	"	"	"	"	"	"	
2-Butanone (MEK)	ND	60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
Chloroform	ND	9.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	11	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	8.2	"	"	"	"	"	"	
Benzene	ND	6.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	11	"	"	"	"	"	"	
1,2-Dichloropropane	ND	19	"	"	"	"	"	"	
Bromodichloromethane	ND	14	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	9.2	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	17	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	9.2	"	"	"	"	"	"	
Toluene	7.8	7.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	11	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	17	"	"	"	"	"	"	
Dibromochloromethane	ND	17	"	"	"	"	"	"	
Tetrachloroethene	2300	14	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	16	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	14	"	"	"	"	"	"	
Chlorobenzene	ND	9.4	"	"	"	"	"	"	
Ethylbenzene	ND	8.8	"	"	"	"	"	"	
m,p-Xylene	ND	18	"	"	"	"	"	"	
Styrene	ND	8.6	"	"	"	"	"	"	

Atlas Geo-Sampling Company
120 Nottaway Lane
Alpharetta, GA 30009

Project: AG061413-11
Project Number: Genesis Augusta
Project Manager: Mr. Jim Fineis

Reported:
25-Jun-13 12:13

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-1 (E306081-01) Vapor Sampled: 12-Jun-13 Received: 14-Jun-13									
o-Xylene	ND	8.8	"	"	"	"	"	"	
Bromoform	ND	21	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	14	"	"	"	"	"	"	
4-Ethyltoluene	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	24	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	24	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	24	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	15	"	"	"	"	"	"	
Hexachlorobutadiene	ND	21	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	117 %	76-134	"	"	"	"
Surrogate: Toluene-d8	103 %	78-125	"	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	77-127	"	"	"	"

SV-2 (E306081-02) Vapor Sampled: 12-Jun-13 Received: 14-Jun-13

Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EF31905	19-Jun-13	19-Jun-13	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
Acetone	69	24	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	

Atlas Geo-Sampling Company
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-2 (E306081-02) Vapor Sampled: 12-Jun-13 Received: 14-Jun-13									
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	12	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	11	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	480	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	22	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	9.2	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	8.9	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	20	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	7.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	11	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

119 % 76-134

" " " "

Surrogate: Toluene-d8

106 % 78-125

" " " "

Surrogate: 4-Bromofluorobenzene

103 % 77-127

" " " "

Atlas Geo-Sampling Company
120 Nottaway Lane
Alpharetta, GA 30009

Project: AG061413-11
Project Number: Genesis Augusta
Project Manager: Mr. Jim Fineis

Reported:
25-Jun-13 12:13

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-4 (E306081-03) Vapor Sampled: 12-Jun-13 Received: 14-Jun-13									
Dichlorodifluoromethane (F12)	ND	50	ug/m3	10	EF31905	19-Jun-13	19-Jun-13	EPA TO-15	
Chloromethane	ND	21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	71	"	"	"	"	"	"	
Vinyl chloride	ND	26	"	"	"	"	"	"	
Bromomethane	ND	160	"	"	"	"	"	"	
Chloroethane	ND	80	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	56	"	"	"	"	"	"	
Acetone	ND	240	"	"	"	"	"	"	
1,1-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	35	"	"	"	"	"	"	
Carbon disulfide	ND	63	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
2-Butanone (MEK)	ND	300	"	"	"	"	"	"	
cis-1,2-Dichloroethene	130	40	"	"	"	"	"	"	
Chloroform	ND	49	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	41	"	"	"	"	"	"	
Benzene	ND	32	"	"	"	"	"	"	
Carbon tetrachloride	ND	64	"	"	"	"	"	"	
Trichloroethene	1400	55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	94	"	"	"	"	"	"	
Bromodichloromethane	ND	68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
Toluene	ND	38	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	83	"	"	"	"	"	"	
Dibromochloromethane	ND	86	"	"	"	"	"	"	
Tetrachloroethene	47000	280	"	40	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	78	"	10	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
Chlorobenzene	ND	47	"	"	"	"	"	"	
Ethylbenzene	ND	44	"	"	"	"	"	"	
m,p-Xylene	ND	88	"	"	"	"	"	"	
Styrene	ND	43	"	"	"	"	"	"	

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-4 (E306081-03) Vapor Sampled: 12-Jun-13 Received: 14-Jun-13									
o-Xylene	ND	44	"	"	"	"	"	"	
Bromoform	ND	100	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
4-Ethyltoluene	ND	50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	120	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	120	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	120	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	75	"	"	"	"	"	"	
Hexachlorobutadiene	ND	110	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	118 %	76-134	"	"	"	"	"
Surrogate: Toluene-d8	99.3 %	78-125	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	98.8 %	77-127	"	"	"	"	"

SV-3 (E306081-04) Vapor Sampled: 12-Jun-13 Received: 14-Jun-13

Dichlorodifluoromethane (F12)	ND	25	ug/m3	5	EF31905	19-Jun-13	19-Jun-13	EPA TO-15
Chloromethane	ND	10	"	"	"	"	"	"
Dichlorotetrafluoroethane (F114)	ND	35	"	"	"	"	"	"
Vinyl chloride	ND	13	"	"	"	"	"	"
Bromomethane	ND	79	"	"	"	"	"	"
Chloroethane	ND	40	"	"	"	"	"	"
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"
Acetone	ND	120	"	"	"	"	"	"
1,1-Dichloroethene	ND	20	"	"	"	"	"	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"
Carbon disulfide	ND	32	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"
1,1-Dichloroethane	ND	21	"	"	"	"	"	"
2-Butanone (MEK)	ND	150	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	20	"	"	"	"	"	"
Chloroform	ND	25	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"
Benzene	ND	16	"	"	"	"	"	"
Carbon tetrachloride	ND	32	"	"	"	"	"	"

Atlas Geo-Sampling Company
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Alpharetta, GA 30009

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-3 (E306081-04) Vapor Sampled: 12-Jun-13 Received: 14-Jun-13									
Trichloroethene	100	27	"	"	"	"	"	"	
1,2-Dichloropropane	ND	47	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	41	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	41	"	"	"	"	"	"	
Dibromochloromethane	ND	43	"	"	"	"	"	"	
Tetrachloroethene	7800	34	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	39	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Chlorobenzene	ND	23	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
Styrene	ND	22	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
Bromoform	ND	52	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
4-Ethyltoluene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

119 % 76-134
99.2 % 78-125
98.5 % 77-127

" " " "
" " " "
" " " "

Atlas Geo-Sampling Company
120 Nottaway Lane
Alpharetta, GA 30009

Project: AG061413-11
Project Number: Genesis Augusta
Project Manager: Mr. Jim Fineis

Reported:
25-Jun-13 12:13

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-5 (E306081-05) Vapor Sampled: 12-Jun-13 Received: 14-Jun-13									
Dichlorodifluoromethane (F12)	ND	50	ug/m3	10	EF31905	19-Jun-13	19-Jun-13	EPA TO-15	
Chloromethane	ND	21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	71	"	"	"	"	"	"	
Vinyl chloride	ND	26	"	"	"	"	"	"	
Bromomethane	ND	160	"	"	"	"	"	"	
Chloroethane	ND	80	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	56	"	"	"	"	"	"	
Acetone	ND	240	"	"	"	"	"	"	
1,1-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	35	"	"	"	"	"	"	
Carbon disulfide	ND	63	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
2-Butanone (MEK)	ND	300	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	49	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	41	"	"	"	"	"	"	
Benzene	ND	32	"	"	"	"	"	"	
Carbon tetrachloride	ND	64	"	"	"	"	"	"	
Trichloroethene	680	55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	94	"	"	"	"	"	"	
Bromodichloromethane	ND	68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
Toluene	ND	38	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	83	"	"	"	"	"	"	
Dibromochloromethane	ND	86	"	"	"	"	"	"	
Tetrachloroethene	29000	69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
Chlorobenzene	ND	47	"	"	"	"	"	"	
Ethylbenzene	ND	44	"	"	"	"	"	"	
m,p-Xylene	ND	88	"	"	"	"	"	"	
Styrene	ND	43	"	"	"	"	"	"	

Atlas Geo-Sampling Company
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Alpharetta, GA 30009

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-5 (E306081-05) Vapor Sampled: 12-Jun-13 Received: 14-Jun-13									
o-Xylene	ND	44	"	"	"	"	"	"	
Bromoform	ND	100	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
4-Ethyltoluene	ND	50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	120	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	120	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	120	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	75	"	"	"	"	"	"	
Hexachlorobutadiene	ND	110	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>									
		119 %		76-134	"	"	"	"	
<i>Surrogate: Toluene-d8</i>									
		104 %		78-125	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>									
		105 %		77-127	"	"	"	"	

Atlas Geo-Sampling Company
120 Nottaway Lane
Alpharetta, GA 30009

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25-Jun-13 12:13

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF31905 - TO-15

Blank (EF31905-BLK1)

Prepared & Analyzed: 19-Jun-13

Dichlorodifluoromethane (F12)	ND	5.0	ug/m3
Chloromethane	ND	2.1	"
Dichlorotetrafluoroethane (F114)	ND	7.1	"
Vinyl chloride	ND	2.6	"
Bromomethane	ND	16	"
Chloroethane	ND	8.0	"
Trichlorofluoromethane (F11)	ND	5.6	"
Acetone	ND	24	"
1,1-Dichloroethene	ND	4.0	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"
Methylene chloride (Dichloromethane)	ND	3.5	"
Carbon disulfide	ND	6.3	"
trans-1,2-Dichloroethene	ND	8.0	"
1,1-Dichloroethane	ND	4.1	"
2-Butanone (MEK)	ND	30	"
cis-1,2-Dichloroethene	ND	4.0	"
Chloroform	ND	4.9	"
1,1,1-Trichloroethane	ND	5.5	"
1,2-Dichloroethane (EDC)	ND	4.1	"
Benzene	ND	3.2	"
Carbon tetrachloride	ND	6.4	"
Trichloroethene	ND	5.5	"
1,2-Dichloropropane	ND	9.4	"
Bromodichloromethane	ND	6.8	"
cis-1,3-Dichloropropene	ND	4.6	"
4-Methyl-2-pentanone (MIBK)	ND	8.3	"
trans-1,3-Dichloropropene	ND	4.6	"
Toluene	ND	3.8	"
1,1,2-Trichloroethane	ND	5.5	"
2-Hexanone (MBK)	ND	8.3	"
Dibromochloromethane	ND	8.6	"
Tetrachloroethene	ND	6.9	"
1,2-Dibromoethane (EDB)	ND	7.8	"
1,1,1,2-Tetrachloroethane	ND	7.0	"

Atlas Geo-Sampling Company
120 Nottaway Lane
Alpharetta, GA 30009

Project: AG061413-11
Project Number: Genesis Augusta
Project Manager: Mr. Jim Fineis

Reported:
25-Jun-13 12:13

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF31905 - TO-15

Blank (EF31905-BLK1)

Prepared & Analyzed: 19-Jun-13

Chlorobenzene	ND	4.7	ug/m3
Ethylbenzene	ND	4.4	"
m,p-Xylene	ND	8.8	"
Styrene	ND	4.3	"
o-Xylene	ND	4.4	"
Bromoform	ND	10	"
1,1,2,2-Tetrachloroethane	ND	7.0	"
4-Ethyltoluene	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	12	"
1,4-Dichlorobenzene	ND	12	"
1,2-Dichlorobenzene	ND	12	"
1,2,4-Trichlorobenzene	ND	38	"
Hexachlorobutadiene	ND	54	"

Surrogate: 1,2-Dichloroethane-d4	250	"	214	117	76-134
Surrogate: Toluene-d8	208	"	207	101	78-125
Surrogate: 4-Bromofluorobenzene	362	"	364	99.4	77-127

LCS (EF31905-BS1)

Prepared & Analyzed: 19-Jun-13

Dichlorodifluoromethane (F12)	100	5.0	ug/m3	101	101	65-135
Vinyl chloride	44	2.6	"	52.0	83.9	65-135
Chloroethane	42	8.0	"	53.6	79.2	65-135
Trichlorofluoromethane (F11)	110	5.6	"	113	96.0	65-135
1,1-Dichloroethene	75	4.0	"	80.8	92.9	65-135
1,1,2-Trichlorotrifluoroethane (F113)	130	7.7	"	155	81.2	65-135
Methylene chloride (Dichloromethane)	54	3.5	"	70.8	76.8	65-135
trans-1,2-Dichloroethene	64	8.0	"	80.8	79.5	65-135
1,1-Dichloroethane	68	4.1	"	82.4	82.8	65-135
cis-1,2-Dichloroethene	69	4.0	"	80.0	85.9	65-135
Chloroform	94	4.9	"	99.2	94.4	65-135
1,1,1-Trichloroethane	110	5.5	"	111	96.1	65-135
1,2-Dichloroethane (EDC)	80	4.1	"	82.4	96.5	65-135

Atlas Geo-Sampling Company
120 Nottaway Lane
Alpharetta, GA 30009

Project: AG061413-11
Project Number: Genesis Augusta
Project Manager: Mr. Jim Fineis

Reported:
25-Jun-13 12:13

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF31905 - TO-15

LCS (EF31905-BS1)

Prepared & Analyzed: 19-Jun-13

Benzene	58	3.2	ug/m3	64.8		89.9	65-135			
Carbon tetrachloride	130	6.4	"	128		99.1	65-135			
Trichloroethene	110	5.5	"	110		97.1	65-135			
Toluene	69	3.8	"	76.8		89.4	65-135			
1,1,2-Trichloroethane	96	5.5	"	111		86.5	65-135			
Tetrachloroethene	130	6.9	"	138		95.0	65-135			
1,1,1,2-Tetrachloroethane	130	7.0	"	140		95.7	65-135			
Ethylbenzene	96	4.4	"	88.4		109	65-135			
m,p-Xylene	190	8.8	"	177		106	65-135			
o-Xylene	95	4.4	"	88.4		107	65-135			
1,1,2,2-Tetrachloroethane	130	7.0	"	140		95.9	65-135			

Surrogate: 1,2-Dichloroethane-d4	239		"	214		112	76-134			
Surrogate: Toluene-d8	203		"	207		97.9	78-125			
Surrogate: 4-Bromofluorobenzene	381		"	364		104	77-127			

LCS Dup (EF31905-BSD1)

Prepared & Analyzed: 19-Jun-13

Dichlorodifluoromethane (F12)	100	5.0	ug/m3	101		102	65-135	1.03	35	
Vinyl chloride	48	2.6	"	52.0		91.6	65-135	8.75	35	
Chloroethane	48	8.0	"	53.6		89.3	65-135	12.0	35	
Trichlorofluoromethane (F11)	95	5.6	"	113		84.1	65-135	13.2	35	
1,1-Dichloroethene	84	4.0	"	80.8		104	65-135	11.3	35	
1,1,2-Trichlorotrifluoroethane (F113)	140	7.7	"	155		87.9	65-135	7.94	35	
Methylene chloride (Dichloromethane)	64	3.5	"	70.8		89.9	65-135	15.7	35	
trans-1,2-Dichloroethene	73	8.0	"	80.8		90.0	65-135	12.4	35	
1,1-Dichloroethane	67	4.1	"	82.4		81.6	65-135	1.45	35	
cis-1,2-Dichloroethene	76	4.0	"	80.0		95.6	65-135	10.6	35	
Chloroform	94	4.9	"	99.2		95.1	65-135	0.788	35	
1,1,1-Trichloroethane	110	5.5	"	111		94.8	65-135	1.40	35	
1,2-Dichloroethane (EDC)	82	4.1	"	82.4		100	65-135	3.65	35	
Benzene	60	3.2	"	64.8		92.0	65-135	2.31	35	
Carbon tetrachloride	130	6.4	"	128		98.5	65-135	0.657	35	
Trichloroethene	110	5.5	"	110		98.2	65-135	1.12	35	
Toluene	68	3.8	"	76.8		87.9	65-135	1.63	35	

Atlas Geo-Sampling Company
120 Nottaway Lane
Alpharetta, GA 30009

Project: AG061413-11
Project Number: Genesis Augusta
Project Manager: Mr. Jim Fineis

Reported:
25-Jun-13 12:13

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF31905 - TO-15

LCS Dup (EF31905-BSD1)

Prepared & Analyzed: 19-Jun-13

1,1,2-Trichloroethane	98	5.5	ug/m3	111		87.9	65-135	1.59	35	
Tetrachloroethene	130	6.9	"	138		93.1	65-135	2.01	35	
1,1,1,2-Tetrachloroethane	140	7.0	"	140		97.2	65-135	1.55	35	
Ethylbenzene	96	4.4	"	88.4		108	65-135	0.183	35	
m,p-Xylene	190	8.8	"	177		107	65-135	0.374	35	
o-Xylene	96	4.4	"	88.4		108	65-135	0.924	35	
1,1,2,2-Tetrachloroethane	140	7.0	"	140		97.7	65-135	1.90	35	
Surrogate: 1,2-Dichloroethane-d4	238		"	214		111	76-134			
Surrogate: Toluene-d8	200		"	207		96.4	78-125			
Surrogate: 4-Bromofluorobenzene	370		"	364		101	77-127			

Atlas Geo-Sampling Company
120 Nottaway Lane
Alpharetta, GA 30009

Project: AG061413-11
Project Number: Genesis Augusta
Project Manager: Mr. Jim Fineis

Reported:
25-Jun-13 12:13

Notes and Definitions

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

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory (Certification # L11-175) in accordance with the DoD-ELAP program. H&P is approved as an Environmental Laboratory in conformance with the Environmental Laboratory Accreditation Program (CA) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste for the following methods:

Certificate# 2741, 2743, 2579, 2754 & 2740 approved for EPA 8260 and LUFT GC/MS
Certificate# 2742, 2745, & 2741 approved for LUFT
Certificate# 2745 & 2742 approved for EPA 418.1

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the National Environmental Accreditation Conference Standards for the category Environmental Analysis Air and Emissions for the following analytes and methods:

1,2,4-Trichlorobenzene by EPA TO-15 & TO-14A	Dibromochloromethane by EPA TO-15
Hexachlorobutadiene by EPA TO-15 & TO-14A	1,3-Dichlorobenzene by EPA TO-15 & TO-14A
Bromodichloromethane by EPA TO-15 & TO-14A	Trichlorofluoromethane by EPA TO-14A
1,2-Dichlorobenzene by EPA TO-15 & TO-14A	Naphthalene by H&P SOP TO-15/GC-MS
Dichlorotetrafluoroethane by EPA TO-14A	1,2-Dibromoethane (EDB) by EPA TO-15 & TO-14A
1,4-Dichlorobenzene by EPA TO-15 & TO-14A	1,2-Dibromo-3-chloropropane by EPA TO-15
Benzene by EPA TO-15 & TO-14A	1,3-Butadiene by EPA TO-15
Chlorobenzene by EPA TO-15 & TO-14A	1,1,2-Trichlorotrifluoroethane by EPA TO-15 & TO-14A
Ethyl benzene by EPA TO-15 & TO-14A	Carbon disulfide by EPA TO-15
Styrene by EPA TO-15 & TO-14A	1,4-Dioxane by EPA TO-15
Toluene by EPA TO-15 & TO-14A	
Total Xylenes by EPA TO-15 & TO-14A	
1,1,1-Trichloroethane by EPA TO-15 & TO-14A	
1,1,2,2-Tetrachloroethane by EPA TO-15 & TO-14A	
1,1,2-Trichloroethane by EPA TO-15 & TO-14A	
1,1-Dichloroethane by EPA TO-15 & TO-14A	
1,1-Dichloroethene by EPA TO-15 & TO-14A	
1,2-Dichloroethane by EPA TO-15 & TO-14A	
1,2-Dichloropropane by EPA TO-15 & TO-14A	
Benzyl Chloride by EPA TO-15 & TO-14A	
Bromoform by EPA TO-15	
Bromomethane by EPA TO-15 & TO-14A	
Carbon tetrachloride by EPA TO-15 & TO-14A	
Chloroethane by EPA TO-15 & TO-14A	
Chloroform by EPA TO-15 & TO-14A	
Chloromethane by EPA TO-15 & TO-14A	
cis-1,2-Dichloroethene by EPA TO-15 & TO-14A	
cis-1,3-Dichloropropene by EPA TO-15 & TO-14A	
Methylene chloride by EPA TO -15 & TO-14A	
Tetrachloroethane by EPA TO-15 & TO-14A	
trans-1,2-Dichloroethene by EPA TO-15	
trans-1,3-Dichloropropene by EPA TO-15 & TO-14A	
Trichloroethene by EPA TO-15 & TO-14A	
Vinyl chloride by EPA TO -15 & TO-14A	
2-Butanone by EPA TO-15	
4-Methyl-2-Pentanone by EPA TO-15	
Hexane by EPA TO-15	
Methyl tert-butyl ether by EPA TO-15	
Vinyl acetate by EPA TO-15	

This certification applies to samples analyzed in summa canisters.

HIP

Date: _____
 H&P Project # AG061413-11
 Outside Lab: _____

Client: Atlas Geo Sampling		Collector: Jim Finer		Page: 1 of 1	
Address: 120 Nottaway Lane		Client Project # 609510		Project Contact:	
Alpharetta, GA 30009		Location: Alpharetta, Georgia			
Email: jfiner@atlas-geo.com		Phone: 770 883 3379		Fax:	
Turn around time: 5 DMS					
Geotracker EDF: Yes <input type="checkbox"/> No <input type="checkbox"/>		Sample Receipt			
Global ID: _____		Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>			
Excel EDD: Yes <input type="checkbox"/> No <input type="checkbox"/>		Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
		Cold: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
		Temperature: _____			
Special Instructions: URS TRACK# 12 935 761 87 4873 1562					
Lab Work Order # E306081					
Sample Name		Field Point Name	Purge Vol	Time	Date
SV-1	154	186	955	6-13	56
SV-2	135	"	1036	"	"
SV-4	212	"	1050	"	"
SV-3	272	"	10125	"	"
SV-5	298	"	1155	"	"
Container Type		Sample Type	Total # of containers		
Summit		56	1		
"		"	1		
"		"	1		
"		"	1		
"		"	1		
8260B Full List		8260B	418.1 TRPH		
<input type="checkbox"/> BTEX/OXY <input type="checkbox"/> TPH gas		LUFT/8015M TPH <input type="checkbox"/> g <input type="checkbox"/> d <input type="checkbox"/> ext			
SOIL/GW		SOIL VAPOR/AIR ANALYSIS			
8260B		VOCs: Full List <input checked="" type="checkbox"/> 8260B <input type="checkbox"/> TO-15			
8260B		VOCs: Short List/DTSC <input type="checkbox"/> 8260B <input type="checkbox"/> TO-15			
8260B		VOCs: SAM, 8260B <input type="checkbox"/> SAM A <input type="checkbox"/> SAM B			
8260B		Naphthalene <input type="checkbox"/> 8260B <input type="checkbox"/> TO-15			
8260B		Oxygencates <input type="checkbox"/> 8260B <input type="checkbox"/> TO-15			
8260B		TPHv gas <input type="checkbox"/> 8260B <input type="checkbox"/> TO-15			
8260B		Ketones <input type="checkbox"/> 8260B <input type="checkbox"/> TO-15			
8260B		Other <input type="checkbox"/> 8260B <input type="checkbox"/> TO-15			
8260B		Leak Check Compound <input type="checkbox"/> 1,1 DFA <input type="checkbox"/> OTHER			
8260B		Methane <input type="checkbox"/> CO2 <input type="checkbox"/> O2 <input type="checkbox"/> N2			
8260B		Fixed Gases <input type="checkbox"/> CO2 <input type="checkbox"/> O2 <input type="checkbox"/> N2			
8260B		VAC# Gauge # 1076 054			

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction:

Disposal

☐ Return to client

<input type="checkbox"/>	Pickup
--------------------------	--------

Pickup

Radon Analysis (EPA Method GS: Grab Sample/Scintillation Cell counting)																													
For H&P/Atlas Geo Sampling					Client Project Number: H&P AG061313-14R (AG# Genesis Augusta)																								
Samples Collected by: Jim Fineis					Sample Dates: 6/12/13																								
					Sample containers: Tedlar bags																								
Site: Augusta GA					Assumed Site Pressure 0.96 atm																								
Analysts: Doug Hammond					based on an elevation of 900 ft																								
Phone: 310-490-7896					Time Zone adjustment: add to decay time																								
email: dhammond@usc.edu					3 hours					Collect (EDT)					Run (PDT)														
Summary		Collection		Analysis		Lab Duplicates																							
	Date	time	Date	time	Vol run	Conc.	±1 sig			mean		±1ssd		Notes															
		(EDT)		(PDT)	(cc)	pCi/L	pCi/L			pCi/L		pCi/L																	
Received 6/14/13																													
1	SV1-SG	6/12/13	9:45	6/14/13	11:09	40	293	15																					
2	SV1-IA	6/12/13	9:50	6/14/13	11:16	120	0.91	0.08																					
3	SV3-IA	6/12/13	11:20	6/14/13	11:19	120	0.81	0.07																					
4	SV5-SG	6/12/13	11:40	6/14/13	11:11	40	258	13	256	3																			
	lab dupe	6/12/13	11:40	6/14/13	11:13	40	253	13																					
5	SV5-IA	6/12/13	11:45	6/14/13	11:21	120	0.71	0.07																					
Uncertainty given in pCi/liter is based on counting statistics for low activity samples. For high activity samples uncertainty is ±5%.																													
The Lower Limit of Detection for Rn (95% confidence level as recommended by EPA 402-R-95-012, Oct. 97) is 0.14 pCi/liter.																													
Results are reported based on standardization with NIST-traceable radon sources.																													
These results are for application of naturally-occurring radon as a tracer of soil vapor intrusion, but are not intended for evaluation of radon hazards.																													
Results corrected to in situ pressure as noted above																													
Raw Data, Calculation factors, and Analytical Details																													
Sample ID		Collection		Analysis		Count in		He		Air/He		Vol run		Press		obs		sig		Decay T		Decay		Concentration		count		Notes	
		Date	Time	Date	Time	cell/ch	eff	eff				(cc)	factor	dpm	dpm	(hours)	factor	dpm/liter	pCi/liter	pCi/liter	±1 sig								
Received 6/14/13																													
1	SV1-SG	6/12/13	9:45	6/14/13	11:09	74/34	0.948	0.99	40	0.96	17.14	0.19	52.4	1.486	651	293	3												
2	SV1-IA	6/12/13	9:50	6/14/13	11:16	82/32	0.743	0.97	120	0.96	0.12	0.01	52.4	1.486	2.01	0.91	0.08												
3	SV3-IA	6/12/13	11:20	6/14/13	11:19	81/31	0.818	0.97	120	0.96	0.12	0.01	51.0	1.470	1.81	0.81	0.07												
4	SV5-SG	6/12/13	11:40	6/14/13	11:11	61/33	0.819	0.99	40	0.96	13.22	0.17	50.5	1.465	573	258	3												
	lab dupe	6/12/13	11:40	6/14/13	11:13	213/22	0.818	0.99	40	0.96	12.96	0.17	50.6	1.465	563	253	3												
5	SV5-IA	6/12/13	11:45	6/14/13	11:21	84/11	0.785	0.97	120	0.96	0.10	0.01	50.6	1.466	1.59	0.71	0.07												
Decay corrections based on Rn decay constant of 0.1813 per day																													
Conversion from dpm based on 0.4504 pCi/dpm																													
Blanks are negligible.																													
Radon Conc = ((0.4504)(1000)(obs dpm)(decay factor)/(Press factor))/((cc used)(He eff)(Air/He))																													
(in pCi/liter)																													
Definitions:																													
Cell/ch:		Counting cell and channel used										sig dpm		uncertainty (± 1 sig) in dpm based on counting statistics															
He eff:		Cell and counter efficiency using helium matrix										Decay T:		time elapsed from sampling to analysis															
Air/He:		Correction for matrix counting gas density										Decay factor:		Correction factor for decay from collection to analysis															
Sample vol:		Volume analyzed (cc)										dpm/liter:		Radon concentration in disintegrations per minute per liter of sample															
Press factor:		Correction to in situ pressure based on collection altitude										pCi/liter:		Radon concentration in pCi/liter															
obs dpm:		observed radon activity (disintegrations per minute) when analyzed										count stats:		uncertainty in observed radon based on counting statistics															



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 14, 2011

Tiffany Messier
Genesis Project, Inc.
1258 Concord Rd.
Smyrna GA 30080

TEL: (770) 319-7217
FAX: (770) 319-7219

RE: Vogue Cleaners

Dear Tiffany Messier:

Order No: 1107569

Analytical Environmental Services, Inc. received 8 samples on 7/8/2011 2:15:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

James Forrest
Project Manager



Work Order: 1107569

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Date: 7/8/99 Page 1 of 1

COMPANY: Genesis Paved, Inc.		ADDRESS: 1258 Longwood Rd Swing, WA, WA 30000									
PHONE: 770-310-7217		FAX: 770-310-7219									
SAMPLED BY: Kyle Norman and Josh Threderick		SIGNATURE: <i>[Signature]</i>									
#	SAMPLE ID	SAMPLED		DATE	TIME	Grab	Composite	Matrix (See codes)	REMARKS	No # of Containers	
1	P00-1			7/7/11	1400	X		GW	2		
2	RA-3			7/7/11	1200	X		GW	6		
3	MA-22			7/8/11	1115	X		GW	2		
4	SB-6 (0-2)			7/7/11	1620	X		SO	4		
5	SB-13M (0-2)				1450						
6	SB-14 (0-2)				1400						
7	SB-15 (0-2)				1420						
8	SB-17 (0-2)			7/7/11	1650	X		SO	4		
9											
10											
11											
12											
13											
14											
RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME: 7/21/11 1415		RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 7/18/11		PROJECT NAME: Vogue Cleaners		RECEIPT: 2c	
2: <i>[Signature]</i>		3: 14:15		PROJECT #:		SITE ADDRESS:		SEND REPORT TO: tnorris@genpaved.com		INVOICE TO: tnorris@genpaved.com	
3:		3:		PROJECT #:		SITE ADDRESS:		SEND REPORT TO:		INVOICE TO:	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
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SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT		SHIPMENT METHOD: IN		SHIPMENT METHOD: CLIENT		SHIPMENT METHOD: GREYHOUND		SHIPMENT METHOD: UPS MAIL	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD: OUT									

Client: Genesis Project, Inc.**Project:** Vogue Cleaners**Lab ID:** 1107569**Case Narrative**

Volatile Organic Compounds Analysis by Method 8260B:

Percent recovery for the internal standard compound 1,4-Dichlorobenzene-d4 on sample 1107569-006A was outside control limits biased low due to suspected matrix interference.

Analytical Environmental Services, Inc
Date: 14-Jul-11

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1107569-001

Client Sample ID: POD-1
Collection Date: 7/7/2011 2:00:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
1,1,2-Trichloroethane	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
1,1-Dichloroethane	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
1,1-Dichloroethene	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
1,2-Dibromoethane	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
1,2-Dichlorobenzene	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
1,2-Dichloroethane	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
1,2-Dichloropropane	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
1,3-Dichlorobenzene	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
1,4-Dichlorobenzene	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
2-Butanone	BRL	50		ug/L	148779	1	07/11/2011 16:38	MC
2-Hexanone	BRL	10		ug/L	148779	1	07/11/2011 16:38	MC
4-Methyl-2-pentanone	BRL	10		ug/L	148779	1	07/11/2011 16:38	MC
Acetone	BRL	50		ug/L	148779	1	07/11/2011 16:38	MC
Benzene	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Bromodichloromethane	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Bromoform	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Bromomethane	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Carbon disulfide	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Carbon tetrachloride	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Chlorobenzene	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Chloroethane	BRL	10		ug/L	148779	1	07/11/2011 16:38	MC
Chloroform	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Chloromethane	BRL	10		ug/L	148779	1	07/11/2011 16:38	MC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Cyclohexane	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Dibromochloromethane	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Dichlorodifluoromethane	BRL	10		ug/L	148779	1	07/11/2011 16:38	MC
Ethylbenzene	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Freon-113	BRL	10		ug/L	148779	1	07/11/2011 16:38	MC
Isopropylbenzene	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
m,p-Xylene	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Methyl acetate	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Methyl tert-butyl ether	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Methylcyclohexane	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Methylene chloride	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
o-Xylene	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Jul-11

Client: Genesis Project, Inc.	Client Sample ID: POD-1
Project Name: Vogue Cleaners	Collection Date: 7/7/2011 2:00:00 PM
Lab ID: 1107569-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Tetrachloroethene	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Toluene	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Trichloroethene	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Trichlorofluoromethane	BRL	5.0		ug/L	148779	1	07/11/2011 16:38	MC
Vinyl chloride	BRL	2.0		ug/L	148779	1	07/11/2011 16:38	MC
Surr: 4-Bromofluorobenzene	92.6	64.7-130		%REC	148779	1	07/11/2011 16:38	MC
Surr: Dibromofluoromethane	87.1	80.7-129		%REC	148779	1	07/11/2011 16:38	MC
Surr: Toluene-d8	98.1	71.1-120		%REC	148779	1	07/11/2011 16:38	MC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 14-Jul-11

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1107569-002

Client Sample ID: RW-3
Collection Date: 7/7/2011 12:00:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
1,1,2-Trichloroethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
1,1-Dichloroethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
1,1-Dichloroethene	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
1,2-Dibromoethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
1,2-Dichlorobenzene	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
1,2-Dichloroethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
1,2-Dichloropropane	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
1,3-Dichlorobenzene	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
1,4-Dichlorobenzene	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
2-Butanone	BRL	50		ug/L	148779	1	07/11/2011 17:05	MC
2-Hexanone	BRL	10		ug/L	148779	1	07/11/2011 17:05	MC
4-Methyl-2-pentanone	BRL	10		ug/L	148779	1	07/11/2011 17:05	MC
Acetone	530	500		ug/L	148779	10	07/11/2011 19:32	MC
Benzene	7.9	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Bromodichloromethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Bromoform	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Bromomethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Carbon disulfide	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Carbon tetrachloride	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Chlorobenzene	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Chloroethane	BRL	10		ug/L	148779	1	07/11/2011 17:05	MC
Chloroform	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Chloromethane	BRL	10		ug/L	148779	1	07/11/2011 17:05	MC
cis-1,2-Dichloroethene	25	5.0		ug/L	148779	1	07/11/2011 17:05	MC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Cyclohexane	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Dibromochloromethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Dichlorodifluoromethane	BRL	10		ug/L	148779	1	07/11/2011 17:05	MC
Ethylbenzene	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Freon-113	BRL	10		ug/L	148779	1	07/11/2011 17:05	MC
Isopropylbenzene	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
m,p-Xylene	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Methyl acetate	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Methyl tert-butyl ether	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Methylcyclohexane	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Methylene chloride	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
o-Xylene	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Jul-11

Client: Genesis Project, Inc.	Client Sample ID: RW-3
Project Name: Vogue Cleaners	Collection Date: 7/7/2011 12:00:00 PM
Lab ID: 1107569-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Tetrachloroethene	280	50		ug/L	148779	10	07/11/2011 19:32	MC
Toluene	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Trichloroethene	5.4	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Trichlorofluoromethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:05	MC
Vinyl chloride	BRL	2.0		ug/L	148779	1	07/11/2011 17:05	MC
Surr: 4-Bromofluorobenzene	93.4	64.7-130		%REC	148779	10	07/11/2011 19:32	MC
Surr: 4-Bromofluorobenzene	94.2	64.7-130		%REC	148779	1	07/11/2011 17:05	MC
Surr: Dibromofluoromethane	86.7	80.7-129		%REC	148779	1	07/11/2011 17:05	MC
Surr: Dibromofluoromethane	90.5	80.7-129		%REC	148779	10	07/11/2011 19:32	MC
Surr: Toluene-d8	99.8	71.1-120		%REC	148779	1	07/11/2011 17:05	MC
Surr: Toluene-d8	101	71.1-120		%REC	148779	10	07/11/2011 19:32	MC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 14-Jul-11

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1107569-003

Client Sample ID: MW-22
Collection Date: 7/8/2011 11:15:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
1,1,2-Trichloroethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
1,1-Dichloroethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
1,1-Dichloroethene	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
1,2-Dibromoethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
1,2-Dichlorobenzene	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
1,2-Dichloroethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
1,2-Dichloropropane	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
1,3-Dichlorobenzene	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
1,4-Dichlorobenzene	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
2-Butanone	BRL	50		ug/L	148779	1	07/11/2011 17:33	MC
2-Hexanone	BRL	10		ug/L	148779	1	07/11/2011 17:33	MC
4-Methyl-2-pentanone	BRL	10		ug/L	148779	1	07/11/2011 17:33	MC
Acetone	BRL	50		ug/L	148779	1	07/11/2011 17:33	MC
Benzene	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Bromodichloromethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Bromoform	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Bromomethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Carbon disulfide	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Carbon tetrachloride	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Chlorobenzene	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Chloroethane	BRL	10		ug/L	148779	1	07/11/2011 17:33	MC
Chloroform	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Chloromethane	BRL	10		ug/L	148779	1	07/11/2011 17:33	MC
cis-1,2-Dichloroethene	14	5.0		ug/L	148779	1	07/11/2011 17:33	MC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Cyclohexane	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Dibromochloromethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Dichlorodifluoromethane	BRL	10		ug/L	148779	1	07/11/2011 17:33	MC
Ethylbenzene	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Freon-113	BRL	10		ug/L	148779	1	07/11/2011 17:33	MC
Isopropylbenzene	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
m,p-Xylene	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Methyl acetate	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Methyl tert-butyl ether	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Methylcyclohexane	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Methylene chloride	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
o-Xylene	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 14-Jul-11

Client: Genesis Project, Inc.	Client Sample ID: MW-22
Project Name: Vogue Cleaners	Collection Date: 7/8/2011 11:15:00 AM
Lab ID: 1107569-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Tetrachloroethene	8.2	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Toluene	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Trichloroethene	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Trichlorofluoromethane	BRL	5.0		ug/L	148779	1	07/11/2011 17:33	MC
Vinyl chloride	BRL	2.0		ug/L	148779	1	07/11/2011 17:33	MC
Surr: 4-Bromofluorobenzene	93.4	64.7-130		%REC	148779	1	07/11/2011 17:33	MC
Surr: Dibromofluoromethane	86.6	80.7-129		%REC	148779	1	07/11/2011 17:33	MC
Surr: Toluene-d8	99.5	71.1-120		%REC	148779	1	07/11/2011 17:33	MC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 14-Jul-11

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1107569-004

Client Sample ID: SB-6 (0-2)
Collection Date: 7/7/2011 4:20:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
1,1,2,2-Tetrachloroethane	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
1,1,2-Trichloroethane	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
1,1-Dichloroethane	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
1,1-Dichloroethene	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
1,2,4-Trichlorobenzene	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
1,2-Dibromo-3-chloropropane	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
1,2-Dibromoethane	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
1,2-Dichlorobenzene	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
1,2-Dichloroethane	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
1,2-Dichloropropane	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
1,3-Dichlorobenzene	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
1,4-Dichlorobenzene	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
2-Butanone	BRL	0.028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
2-Hexanone	BRL	0.0055		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
4-Methyl-2-pentanone	BRL	0.0055		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Acetone	BRL	0.055		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Benzene	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Bromodichloromethane	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Bromoform	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Bromomethane	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Carbon disulfide	BRL	0.0055		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Carbon tetrachloride	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Chlorobenzene	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Chloroethane	BRL	0.0055		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Chloroform	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Chloromethane	BRL	0.0055		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
cis-1,2-Dichloroethene	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
cis-1,3-Dichloropropene	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Cyclohexane	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Dibromochloromethane	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Dichlorodifluoromethane	BRL	0.0055		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Ethylbenzene	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Freon-113	BRL	0.0055		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Isopropylbenzene	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
m,p-Xylene	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Methyl acetate	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Methyl tert-butyl ether	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Methylcyclohexane	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Methylene chloride	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
o-Xylene	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Jul-11

Client: Genesis Project, Inc.	Client Sample ID: SB-6 (0-2)
Project Name: Vogue Cleaners	Collection Date: 7/7/2011 4:20:00 PM
Lab ID: 1107569-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Tetrachloroethene	0.044	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Toluene	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
trans-1,2-Dichloroethene	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
trans-1,3-Dichloropropene	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Trichloroethene	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Trichlorofluoromethane	BRL	0.0028		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Vinyl chloride	BRL	0.0055		mg/Kg-dry	148858	1	07/12/2011 13:08	JE
Surr: 4-Bromofluorobenzene	96.3	56-137		%REC	148858	1	07/12/2011 13:08	JE
Surr: Dibromofluoromethane	94.3	73.7-137		%REC	148858	1	07/12/2011 13:08	JE
Surr: Toluene-d8	94.9	69.2-126		%REC	148858	1	07/12/2011 13:08	JE
PERCENT MOISTURE D2216								
Percent Moisture	11.5	0		wt%	R201065	1	07/14/2011 09:30	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 14-Jul-11

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1107569-005

Client Sample ID: SB-13W (0-2)
Collection Date: 7/7/2011 2:50:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
1,1,2,2-Tetrachloroethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
1,1,2-Trichloroethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
1,1-Dichloroethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
1,1-Dichloroethene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
1,2,4-Trichlorobenzene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
1,2-Dibromo-3-chloropropane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
1,2-Dibromoethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
1,2-Dichlorobenzene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
1,2-Dichloroethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
1,2-Dichloropropane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
1,3-Dichlorobenzene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
1,4-Dichlorobenzene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
2-Butanone	BRL	0.033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
2-Hexanone	BRL	0.0066		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
4-Methyl-2-pentanone	BRL	0.0066		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Acetone	BRL	0.066		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Benzene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Bromodichloromethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Bromoform	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Bromomethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Carbon disulfide	BRL	0.0066		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Carbon tetrachloride	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Chlorobenzene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Chloroethane	BRL	0.0066		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Chloroform	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Chloromethane	BRL	0.0066		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
cis-1,2-Dichloroethene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
cis-1,3-Dichloropropene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Cyclohexane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Dibromochloromethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Dichlorodifluoromethane	BRL	0.0066		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Ethylbenzene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Freon-113	BRL	0.0066		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Isopropylbenzene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
m,p-Xylene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Methyl acetate	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Methyl tert-butyl ether	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Methylcyclohexane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Methylene chloride	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
o-Xylene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Jul-11

Client: Genesis Project, Inc.	Client Sample ID: SB-13W (0-2)
Project Name: Vogue Cleaners	Collection Date: 7/7/2011 2:50:00 PM
Lab ID: 1107569-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Tetrachloroethene	0.11	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Toluene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
trans-1,2-Dichloroethene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
trans-1,3-Dichloropropene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Trichloroethene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Trichlorofluoromethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Vinyl chloride	BRL	0.0066		mg/Kg-dry	148858	1	07/11/2011 22:29	JE
Surr: 4-Bromofluorobenzene	81.5	56-137		%REC	148858	1	07/11/2011 22:29	JE
Surr: Dibromofluoromethane	97.8	73.7-137		%REC	148858	1	07/11/2011 22:29	JE
Surr: Toluene-d8	91.3	69.2-126		%REC	148858	1	07/11/2011 22:29	JE
PERCENT MOISTURE D2216								
Percent Moisture	13.5	0		wt%	R201065	1	07/14/2011 09:30	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 14-Jul-11

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1107569-006

Client Sample ID: SB-14 (0-2)
Collection Date: 7/7/2011 2:00:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
1,1,2,2-Tetrachloroethane	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
1,1,2-Trichloroethane	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
1,1-Dichloroethane	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
1,1-Dichloroethene	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
1,2,4-Trichlorobenzene	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
1,2-Dibromo-3-chloropropane	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
1,2-Dibromoethane	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
1,2-Dichlorobenzene	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
1,2-Dichloroethane	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
1,2-Dichloropropane	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
1,3-Dichlorobenzene	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
1,4-Dichlorobenzene	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
2-Butanone	BRL	0.032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
2-Hexanone	BRL	0.0065		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
4-Methyl-2-pentanone	BRL	0.0065		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Acetone	0.085	0.065		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Benzene	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Bromodichloromethane	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Bromoform	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Bromomethane	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Carbon disulfide	BRL	0.0065		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Carbon tetrachloride	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Chlorobenzene	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Chloroethane	BRL	0.0065		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Chloroform	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Chloromethane	BRL	0.0065		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
cis-1,2-Dichloroethene	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
cis-1,3-Dichloropropene	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Cyclohexane	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Dibromochloromethane	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Dichlorodifluoromethane	BRL	0.0065		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Ethylbenzene	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Freon-113	BRL	0.0065		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Isopropylbenzene	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
m,p-Xylene	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Methyl acetate	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Methyl tert-butyl ether	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Methylcyclohexane	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Methylene chloride	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
o-Xylene	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Jul-11

Client: Genesis Project, Inc.	Client Sample ID: SB-14 (0-2)
Project Name: Vogue Cleaners	Collection Date: 7/7/2011 2:00:00 PM
Lab ID: 1107569-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Tetrachloroethene	7.5	1.6		mg/Kg-dry	148858	500	07/14/2011 13:14	MC
Toluene	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
trans-1,2-Dichloroethene	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
trans-1,3-Dichloropropene	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Trichloroethene	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Trichlorofluoromethane	BRL	0.0032		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Vinyl chloride	BRL	0.0065		mg/Kg-dry	148858	1	07/11/2011 22:55	JE
Surr: 4-Bromofluorobenzene	76.6	56-137		%REC	148858	1	07/11/2011 22:55	JE
Surr: 4-Bromofluorobenzene	93.8	56-137		%REC	148858	500	07/14/2011 13:14	MC
Surr: Dibromofluoromethane	95	73.7-137		%REC	148858	1	07/11/2011 22:55	JE
Surr: Dibromofluoromethane	99.6	73.7-137		%REC	148858	500	07/14/2011 13:14	MC
Surr: Toluene-d8	89.3	69.2-126		%REC	148858	1	07/11/2011 22:55	JE
Surr: Toluene-d8	101	69.2-126		%REC	148858	500	07/14/2011 13:14	MC
PERCENT MOISTURE D2216								
Percent Moisture	7.18	0		wt%	R201065	1	07/14/2011 09:30	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 14-Jul-11

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1107569-007

Client Sample ID: SB-15 (0-2)
Collection Date: 7/7/2011 2:20:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
1,1,2,2-Tetrachloroethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
1,1,2-Trichloroethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
1,1-Dichloroethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
1,1-Dichloroethene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
1,2,4-Trichlorobenzene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
1,2-Dibromo-3-chloropropane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
1,2-Dibromoethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
1,2-Dichlorobenzene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
1,2-Dichloroethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
1,2-Dichloropropane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
1,3-Dichlorobenzene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
1,4-Dichlorobenzene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
2-Butanone	BRL	0.033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
2-Hexanone	BRL	0.0065		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
4-Methyl-2-pentanone	BRL	0.0065		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Acetone	BRL	0.065		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Benzene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Bromodichloromethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Bromoform	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Bromomethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Carbon disulfide	BRL	0.0065		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Carbon tetrachloride	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Chlorobenzene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Chloroethane	BRL	0.0065		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Chloroform	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Chloromethane	BRL	0.0065		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
cis-1,2-Dichloroethene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
cis-1,3-Dichloropropene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Cyclohexane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Dibromochloromethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Dichlorodifluoromethane	BRL	0.0065		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Ethylbenzene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Freon-113	BRL	0.0065		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Isopropylbenzene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
m,p-Xylene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Methyl acetate	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Methyl tert-butyl ether	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Methylcyclohexane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Methylene chloride	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
o-Xylene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Jul-11

Client: Genesis Project, Inc.	Client Sample ID: SB-15 (0-2)
Project Name: Vogue Cleaners	Collection Date: 7/7/2011 2:20:00 PM
Lab ID: 1107569-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Tetrachloroethene	0.018	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Toluene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
trans-1,2-Dichloroethene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
trans-1,3-Dichloropropene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Trichloroethene	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Trichlorofluoromethane	BRL	0.0033		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Vinyl chloride	BRL	0.0065		mg/Kg-dry	148858	1	07/11/2011 23:20	JE
Surr: 4-Bromofluorobenzene	94.4	56-137		%REC	148858	1	07/11/2011 23:20	JE
Surr: Dibromofluoromethane	99	73.7-137		%REC	148858	1	07/11/2011 23:20	JE
Surr: Toluene-d8	99.8	69.2-126		%REC	148858	1	07/11/2011 23:20	JE
PERCENT MOISTURE D2216								
Percent Moisture	8.13	0		wt%	R201065	1	07/14/2011 09:30	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 14-Jul-11

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Lab ID: 1107569-008

Client Sample ID: SB-17 (0-2)
Collection Date: 7/7/2011 4:50:00 PM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
1,1,1-Trichloroethane	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
1,1,2,2-Tetrachloroethane	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
1,1,2-Trichloroethane	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
1,1-Dichloroethane	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
1,1-Dichloroethene	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
1,2,4-Trichlorobenzene	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
1,2-Dibromo-3-chloropropane	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
1,2-Dibromoethane	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
1,2-Dichlorobenzene	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
1,2-Dichloroethane	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
1,2-Dichloropropane	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
1,3-Dichlorobenzene	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
1,4-Dichlorobenzene	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
2-Butanone	BRL	0.030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
2-Hexanone	BRL	0.0060		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
4-Methyl-2-pentanone	BRL	0.0060		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Acetone	BRL	0.060		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Benzene	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Bromodichloromethane	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Bromoform	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Bromomethane	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Carbon disulfide	BRL	0.0060		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Carbon tetrachloride	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Chlorobenzene	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Chloroethane	BRL	0.0060		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Chloroform	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Chloromethane	BRL	0.0060		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
cis-1,2-Dichloroethene	0.0055	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
cis-1,3-Dichloropropene	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Cyclohexane	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Dibromochloromethane	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Dichlorodifluoromethane	BRL	0.0060		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Ethylbenzene	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Freon-113	BRL	0.0060		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Isopropylbenzene	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
m,p-Xylene	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Methyl acetate	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Methyl tert-butyl ether	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Methylcyclohexane	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Methylene chloride	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
o-Xylene	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 14-Jul-11

Client: Genesis Project, Inc.	Client Sample ID: SB-17 (0-2)
Project Name: Vogue Cleaners	Collection Date: 7/7/2011 4:50:00 PM
Lab ID: 1107569-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Tetrachloroethene	0.019	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Toluene	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
trans-1,2-Dichloroethene	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
trans-1,3-Dichloropropene	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Trichloroethene	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Trichlorofluoromethane	BRL	0.0030		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Vinyl chloride	BRL	0.0060		mg/Kg-dry	148858	1	07/11/2011 23:46	JE
Surr: 4-Bromofluorobenzene	97.6	56-137		%REC	148858	1	07/11/2011 23:46	JE
Surr: Dibromofluoromethane	96.3	73.7-137		%REC	148858	1	07/11/2011 23:46	JE
Surr: Toluene-d8	94.6	69.2-126		%REC	148858	1	07/11/2011 23:46	JE
PERCENT MOISTURE D2216								
Percent Moisture	18.8	0		wt%	R201065	1	07/14/2011 09:30	AS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Generis

Work Order Number 1107569

Checklist completed by Moh 7/8/11
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ☒ No ☐

Cooler #1 34° Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler#5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Genesis Project, Inc.
 Project Name: Vogue Cleaners
 Workorder: 1107569

ANALYTICAL QC SUMMARY REPORT

BatchID: 148779

Sample ID: MB-148779	Client ID:					Units: ug/L	Prep Date: 07/09/2011	Run No: 200764			
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 148779	Analysis Date: 07/09/2011	Seq No: 4193901			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Genesis Project, Inc.
 Project Name: Vogue Cleaners
 Workorder: 1107569

ANALYTICAL QC SUMMARY REPORT

BatchID: 148779

Sample ID: MB-148779	Client ID:					Units: ug/L	Prep Date: 07/09/2011	Run No: 200764			
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS	SW8260B	BatchID: 148779				Analysis Date: 07/09/2011	Seq No: 4193901			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	45.54	0	50	0	91.1	64.7	130	0	0	0	
Surr: Dibromofluoromethane	48.01	0	50	0	96	80.7	129	0	0	0	
Surr: Toluene-d8	51.76	0	50	0	104	71.1	120	0	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Genesis Project, Inc.
 Project Name: Vogue Cleaners
 Workorder: 1107569

ANALYTICAL QC SUMMARY REPORT

BatchID: 148779

Sample ID: LCS-148779	Client ID:					Units: ug/L	Prep Date: 07/09/2011	Run No: 200764			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 148779	Analysis Date: 07/09/2011	Seq No: 4193899			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	44.84	5.0	50	0	89.7	60	140	0	0	0	
Benzene	50.02	5.0	50	0	100	70	130	0	0	0	
Chlorobenzene	48.16	5.0	50	0	96.3	70	130	0	0	0	
Toluene	52.26	5.0	50	0	105	70	130	0	0	0	
Trichloroethene	50.15	5.0	50	0	100	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	49.50	0	50	0	99	64.7	130	0	0	0	
Surr: Dibromofluoromethane	48.89	0	50	0	97.8	80.7	129	0	0	0	
Surr: Toluene-d8	52.47	0	50	0	105	71.1	120	0	0	0	

Sample ID: 1107342-001AMS	Client ID:					Units: ug/L	Prep Date: 07/09/2011	Run No: 200764			
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 148779	Analysis Date: 07/09/2011	Seq No: 4194039			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	54.98	5.0	50	0	110	46.2	183	0	0	0	
Benzene	64.16	5.0	50	0	128	62.2	143	0	0	0	
Chlorobenzene	59.95	5.0	50	0	120	72.2	137	0	0	0	
Toluene	68.98	5.0	50	0	138	57.8	149	0	0	0	
Trichloroethene	61.86	5.0	50	0	124	70.5	149	0	0	0	
Surr: 4-Bromofluorobenzene	50.99	0	50	0	102	64.7	130	0	0	0	
Surr: Dibromofluoromethane	50.35	0	50	0	101	80.7	129	0	0	0	
Surr: Toluene-d8	57.19	0	50	0	114	71.1	120	0	0	0	

Sample ID: 1107342-001AMSD	Client ID:				Units: ug/L	Prep Date: 07/09/2011	Run No: 200764				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 148779	Analysis Date: 07/09/2011	Seq No: 4194040				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.34	5.0	50	0	103	46.2	183	54.98	6.85	20	
Benzene	58.55	5.0	50	0	117	62.2	143	64.16	9.14	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Workorder: 1107569

ANALYTICAL QC SUMMARY REPORT

BatchID: 148779

Sample ID: 1107342-001AMSD	Client ID:				Units: ug/L	Prep Date: 07/09/2011	Run No: 200764				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 148779	Analysis Date: 07/09/2011	Seq No: 4194040				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	54.79	5.0	50	0	110	72.2	137	59.95	8.99	20	
Toluene	62.37	5.0	50	0	125	57.8	149	68.98	10.1	20	
Trichloroethene	57.06	5.0	50	0	114	70.5	149	61.86	8.07	20	
Surr: 4-Bromofluorobenzene	50.28	0	50	0	101	64.7	130	50.99	0	0	
Surr: Dibromofluoromethane	50.95	0	50	0	102	80.7	129	50.35	0	0	
Surr: Toluene-d8	55.49	0	50	0	111	71.1	120	57.19	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Genesis Project, Inc.
 Project Name: Vogue Cleaners
 Workorder: 1107569

ANALYTICAL QC SUMMARY REPORT

BatchID: 148858

Sample ID: MB-148858	Client ID:					Units: mg/Kg	Prep Date: 07/11/2011	Run No: 200814			
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 148858	Analysis Date: 07/11/2011	Seq No: 4196384			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	0.0050	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	0.0050	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	0.0050	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	0.0050	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	0.0050	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	0.0050	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	0.0050	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	0.0050	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	0.0050	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	0.0050	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	0.0050	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	0.0050	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	0.0050	0	0	0	0	0	0	0	0	
2-Butanone	BRL	0.050	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	0.010	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	0.010	0	0	0	0	0	0	0	0	
Acetone	BRL	0.10	0	0	0	0	0	0	0	0	
Benzene	BRL	0.0050	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	0.0050	0	0	0	0	0	0	0	0	
Bromoform	BRL	0.0050	0	0	0	0	0	0	0	0	
Bromomethane	BRL	0.0050	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	0.010	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	0.0050	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	0.0050	0	0	0	0	0	0	0	0	
Chloroethane	BRL	0.010	0	0	0	0	0	0	0	0	
Chloroform	BRL	0.0050	0	0	0	0	0	0	0	0	
Chloromethane	BRL	0.010	0	0	0	0	0	0	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Genesis Project, Inc.
 Project Name: Vogue Cleaners
 Workorder: 1107569

ANALYTICAL QC SUMMARY REPORT

BatchID: 148858

Sample ID: MB-148858	Client ID:					Units: mg/Kg	Prep Date: 07/11/2011	Run No: 200814			
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS	SW8260B	BatchID: 148858				Analysis Date: 07/11/2011	Seq No: 4196384			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	0.0050	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	0.0050	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	0.0050	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	0.0050	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	0.010	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	0.0050	0	0	0	0	0	0	0	0	
Freon-113	BRL	0.010	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	0.0050	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	0.0050	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	0.0050	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	0.0050	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	0.0050	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	0.0050	0	0	0	0	0	0	0	0	
o-Xylene	BRL	0.0050	0	0	0	0	0	0	0	0	
Styrene	BRL	0.0050	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	0.0050	0	0	0	0	0	0	0	0	
Toluene	BRL	0.0050	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	0.0050	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	0.0050	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	0.0050	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	0.0050	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	0.010	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	0.04665	0	0.05	0	93.3	56	137	0	0	0	
Surr: Dibromofluoromethane	0.04692	0	0.05	0	93.8	73.7	137	0	0	0	
Surr: Toluene-d8	0.04671	0	0.05	0	93.4	69.2	126	0	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Genesis Project, Inc.
 Project Name: Vogue Cleaners
 Workorder: 1107569

ANALYTICAL QC SUMMARY REPORT

BatchID: 148858

Sample ID: LCS-148858	Client ID:					Units: mg/Kg	Prep Date: 07/11/2011	Run No: 200814			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 148858	Analysis Date: 07/11/2011	Seq No: 4196385			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.04271	0.0050	0.05	0	85.4	60	140	0	0	0	
Benzene	0.05313	0.0050	0.05	0	106	70	130	0	0	0	
Chlorobenzene	0.05410	0.0050	0.05	0	108	70	130	0	0	0	
Toluene	0.05163	0.0050	0.05	0	103	70	130	0	0	0	
Trichloroethene	0.05332	0.0050	0.05	0	107	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	0.04640	0	0.05	0	92.8	56	137	0	0	0	
Surr: Dibromofluoromethane	0.04633	0	0.05	0	92.7	73.7	137	0	0	0	
Surr: Toluene-d8	0.04680	0	0.05	0	93.6	69.2	126	0	0	0	

Sample ID: 1107324-011AMS	Client ID:					Units: mg/Kg-dry	Prep Date: 07/11/2011	Run No: 200814			
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 148858	Analysis Date: 07/11/2011	Seq No: 4196387			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.06419	0.0078	0.0776	0	82.7	55.2	163	0	0	0	
Benzene	0.08228	0.0078	0.0776	0	106	67.4	144	0	0	0	
Chlorobenzene	0.08175	0.0078	0.0776	0	105	73.6	140	0	0	0	
Toluene	0.08239	0.0078	0.0776	0	106	64.6	145	0	0	0	
Trichloroethene	0.08040	0.0078	0.0776	0	104	70.1	149	0	0	0	
Surr: 4-Bromofluorobenzene	0.07309	0	0.0776	0	94.2	56	137	0	0	0	
Surr: Dibromofluoromethane	0.07115	0	0.0776	0	91.7	73.7	137	0	0	0	
Surr: Toluene-d8	0.07502	0	0.0776	0	96.7	69.2	126	0	0	0	

Sample ID: 1107324-011AMSD	Client ID:					Units: mg/Kg-dry	Prep Date: 07/11/2011	Run No: 200814			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 148858	Analysis Date: 07/11/2011	Seq No: 4196389			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.06285	0.0078	0.0776	0	81	55.2	163	0.06419	2.1	34.9	
Benzene	0.08414	0.0078	0.0776	0	108	67.4	144	0.08228	2.24	27.2	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Genesis Project, Inc.
Project Name: Vogue Cleaners
Workorder: 1107569

ANALYTICAL QC SUMMARY REPORT

BatchID: 148858

Sample ID: 1107324-011AMSD	Client ID:				Units: mg/Kg-dry	Prep Date: 07/11/2011	Run No: 200814				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 148858	Analysis Date: 07/11/2011	Seq No: 4196389				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	0.08464	0.0078	0.0776	0	109	73.6	140	0.08175	3.47	33.4	
Toluene	0.08399	0.0078	0.0776	0	108	64.6	145	0.08239	1.92	26.8	
Trichloroethene	0.08076	0.0078	0.0776	0	104	70.1	149	0.08040	0.443	34	
Surr: 4-Bromofluorobenzene	0.07503	0	0.0776	0	96.7	56	137	0.07309	0	0	
Surr: Dibromofluoromethane	0.07216	0	0.0776	0	93	73.7	137	0.07115	0	0	
Surr: Toluene-d8	0.07503	0	0.0776	0	96.7	69.2	126	0.07502	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

18 July 2011



Mr. Jim Fineis
Atlas Geo-Sampling Company
120 Nottaway Lane
Alpharetta, GA 30009

H&P Project: AG071211-13
Client Project: Morgan Stanley / Vogue Cleaners

Dear Mr. Jim Fineis:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 12-Jul-11 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody

Unless otherwise noted, all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry, Inc. operates under CA Environmental Lab Accreditation Program Numbers 2579, 2740, 2741, 2742, 2743, 2745 and 2754. National Environmental Laboratory Accreditation Conference (NELAC) Standards Lab #11845



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Atlas Geo-Sampling Company
120 Nottaway Lane
Alpharetta, GA 30009

Project: AG071211-13
Project Number: Morgan Stanley / Vogue Cleaners
Project Manager: Mr. Jim Fineis

Reported:
18-Jul-11 08:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DRAFT: SV-2	E107032-02	Vapor	07-Jul-11	12-Jul-11
DRAFT: SV-3	E107032-03	Vapor	07-Jul-11	12-Jul-11
DRAFT: SV-4	E107032-04	Vapor	07-Jul-11	12-Jul-11
DRAFT: EQ-1	E107032-05	Vapor	07-Jul-11	12-Jul-11



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Project: AG071211-13
Project Number: Morgan Stanley / Vogue Cleaners
Project Manager: Mr. Jim Fineis

Reported:
18-Jul-11 08:47

DRAFT: Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
DRAFT: SV-2 (E107032-02) Vapor Sampled: 07-Jul-11 Received: 12-Jul-11									
Dichlorodifluoromethane (F12)	ND	50	ug/m3	10	EG11504	15-Jul-11	15-Jul-11	EPA TO-15	
Chloromethane	ND	21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	71	"	"	"	"	"	"	
Vinyl chloride	ND	26	"	"	"	"	"	"	
Bromomethane	ND	160	"	"	"	"	"	"	
Chloroethane	ND	80	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	57	"	"	"	"	"	"	
Acetone	430	240	"	"	"	"	"	"	
1,1-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	35	"	"	"	"	"	"	
Carbon disulfide	89	63	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
2-Butanone (MEK)	ND	300	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	41	"	"	"	"	"	"	
Benzene	110	32	"	"	"	"	"	"	
Carbon tetrachloride	ND	64	"	"	"	"	"	"	
Trichloroethene	ND	55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	94	"	"	"	"	"	"	
Bromodichloromethane	ND	68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
Toluene	280	38	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	83	"	"	"	"	"	"	
Dibromochloromethane	ND	86	"	"	"	"	"	"	
Tetrachloroethene	15000	69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
Chlorobenzene	ND	47	"	"	"	"	"	"	
Ethylbenzene	46	44	"	"	"	"	"	"	
m,p-Xylene	140	88	"	"	"	"	"	"	
Styrene	ND	43	"	"	"	"	"	"	



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Project: AG071211-13
Project Number: Morgan Stanley / Vogue Cleaners
Project Manager: Mr. Jim Fineis

Reported:
18-Jul-11 08:47

DRAFT: Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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DRAFT: SV-2 (E107032-02) Vapor Sampled: 07-Jul-11 Received: 12-Jul-11

o-Xylene	ND	44	ug/m3	10	EG11504	15-Jul-11	15-Jul-11	EPA TO-15	
Bromoform	ND	100	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
4-Ethyltoluene	ND	50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	120	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	120	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	120	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	75	"	"	"	"	"	"	
Hexachlorobutadiene	ND	110	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.1 %	76-134	"	"	"	"	"	"	
Surrogate: Toluene-d8	99.3 %	78-125	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	77-127	"	"	"	"	"	"	

DRAFT: SV-3 (E107032-03) Vapor Sampled: 07-Jul-11 Received: 12-Jul-11

Dichlorodifluoromethane (F12)	ND	500	ug/m3	100	EG11504	15-Jul-11	15-Jul-11	EPA TO-15	
Chloromethane	ND	210	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	710	"	"	"	"	"	"	
Vinyl chloride	ND	260	"	"	"	"	"	"	
Bromomethane	ND	1600	"	"	"	"	"	"	
Chloroethane	ND	800	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	570	"	"	"	"	"	"	
Acetone	ND	2400	"	"	"	"	"	"	
1,1-Dichloroethene	ND	400	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	770	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	350	"	"	"	"	"	"	
Carbon disulfide	ND	630	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	800	"	"	"	"	"	"	
1,1-Dichloroethane	ND	410	"	"	"	"	"	"	
2-Butanone (MEK)	ND	3000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	1300	400	"	"	"	"	"	"	
Chloroform	ND	500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	550	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	410	"	"	"	"	"	"	
Benzene	ND	320	"	"	"	"	"	"	
Carbon tetrachloride	ND	640	"	"	"	"	"	"	



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Atlas Geo-Sampling Company
120 Nottaway Lane
Alpharetta, GA 30009

Project: AG071211-13
Project Number: Morgan Stanley / Vogue Cleaners
Project Manager: Mr. Jim Fineis

Reported:
18-Jul-11 08:47

DRAFT: Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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DRAFT: SV-3 (E107032-03) Vapor **Sampled: 07-Jul-11** **Received: 12-Jul-11**

Trichloroethene	10000	550	ug/m3	100	EG11504	15-Jul-11	15-Jul-11	EPA TO-15	
1,2-Dichloropropane	ND	940	"	"	"	"	"	"	
Bromodichloromethane	ND	680	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	460	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	830	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	460	"	"	"	"	"	"	
Toluene	ND	380	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	550	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	830	"	"	"	"	"	"	
Dibromochloromethane	ND	860	"	"	"	"	"	"	
Tetrachloroethene	420000	6900	"	1000	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	780	"	100	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	700	"	"	"	"	"	"	
Chlorobenzene	ND	470	"	"	"	"	"	"	
Ethylbenzene	ND	440	"	"	"	"	"	"	
m,p-Xylene	ND	880	"	"	"	"	"	"	
Styrene	ND	430	"	"	"	"	"	"	
o-Xylene	ND	440	"	"	"	"	"	"	
Bromoform	ND	1000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	700	"	"	"	"	"	"	
4-Ethyltoluene	ND	500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1200	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	750	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1100	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

97.3 % 76-134

" " " "

Surrogate: Toluene-d8

102 % 78-125

" " " "

Surrogate: 4-Bromofluorobenzene

99.1 % 77-127

" " " "



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Project Number: Morgan Stanley / Vogue Cleaners
Project Manager: Mr. Jim Fineis

Reported:
18-Jul-11 08:47

DRAFT: Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
DRAFT: SV-4 (E107032-04) Vapor Sampled: 07-Jul-11 Received: 12-Jul-11									
Dichlorodifluoromethane (F12)	ND	500	ug/m3	100	EG11504	15-Jul-11	15-Jul-11	EPA TO-15	
Chloromethane	ND	210	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	710	"	"	"	"	"	"	
Vinyl chloride	ND	260	"	"	"	"	"	"	
Bromomethane	ND	1600	"	"	"	"	"	"	
Chloroethane	ND	800	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	570	"	"	"	"	"	"	
Acetone	ND	2400	"	"	"	"	"	"	
1,1-Dichloroethene	ND	400	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	770	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	350	"	"	"	"	"	"	
Carbon disulfide	ND	630	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	800	"	"	"	"	"	"	
1,1-Dichloroethane	ND	410	"	"	"	"	"	"	
2-Butanone (MEK)	ND	3000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	400	"	"	"	"	"	"	
Chloroform	ND	500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	550	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	410	"	"	"	"	"	"	
Benzene	ND	320	"	"	"	"	"	"	
Carbon tetrachloride	ND	640	"	"	"	"	"	"	
Trichloroethene	770	550	"	"	"	"	"	"	
1,2-Dichloropropane	ND	940	"	"	"	"	"	"	
Bromodichloromethane	ND	680	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	460	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	830	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	460	"	"	"	"	"	"	
Toluene	ND	380	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	550	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	830	"	"	"	"	"	"	
Dibromochloromethane	ND	860	"	"	"	"	"	"	
Tetrachloroethene	66000	690	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	780	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	700	"	"	"	"	"	"	
Chlorobenzene	ND	470	"	"	"	"	"	"	
Ethylbenzene	ND	440	"	"	"	"	"	"	
m,p-Xylene	ND	880	"	"	"	"	"	"	
Styrene	ND	430	"	"	"	"	"	"	



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DRAFT: Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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DRAFT: SV-4 (E107032-04) Vapor Sampled: 07-Jul-11 Received: 12-Jul-11

o-Xylene	ND	440	ug/m3	100	EG11504	15-Jul-11	15-Jul-11	EPA TO-15	
Bromoform	ND	1000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	700	"	"	"	"	"	"	
4-Ethyltoluene	ND	500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1200	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	750	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1100	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.1 %	76-134	"	"	"	"	"	"	
Surrogate: Toluene-d8	101 %	78-125	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.5 %	77-127	"	"	"	"	"	"	

DRAFT: EQ-1 (E107032-05) Vapor Sampled: 07-Jul-11 Received: 12-Jul-11

Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EG11504	15-Jul-11	15-Jul-11	EPA TO-15	
Chloromethane	2.3	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.7	"	"	"	"	"	"	
Acetone	100	24	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	



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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
DRAFT: EQ-1 (E107032-05) Vapor Sampled: 07-Jul-11 Received: 12-Jul-11									
Trichloroethene	ND	5.5	ug/m3	1	EG11504	15-Jul-11	15-Jul-11	EPA TO-15	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	11	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	180	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	9.7	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	7.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	11	"	"	"	"	"	"	
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Surrogate: 1,2-Dichloroethane-d4		98.1 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		100 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.1 %	77-127		"	"	"	"	



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DRAFT: Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG11504 - TO-15

Blank (EG11504-BLK1)

Prepared & Analyzed: 15-Jul-11

Dichlorodifluoromethane (F12)	ND	5.0	ug/m3
Chloromethane	ND	2.1	"
Dichlorotetrafluoroethane (F114)	ND	7.1	"
Vinyl chloride	ND	2.6	"
Bromomethane	ND	16	"
Chloroethane	ND	8.0	"
Trichlorofluoromethane (F11)	ND	5.7	"
Acetone	ND	24	"
1,1-Dichloroethene	ND	4.0	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"
Methylene chloride (Dichloromethane)	ND	3.5	"
Carbon disulfide	ND	6.3	"
trans-1,2-Dichloroethene	ND	8.0	"
1,1-Dichloroethane	ND	4.1	"
2-Butanone (MEK)	ND	30	"
cis-1,2-Dichloroethene	ND	4.0	"
Chloroform	ND	5.0	"
1,1,1-Trichloroethane	ND	5.5	"
1,2-Dichloroethane (EDC)	ND	4.1	"
Benzene	ND	3.2	"
Carbon tetrachloride	ND	6.4	"
Trichloroethene	ND	5.5	"
1,2-Dichloropropane	ND	9.4	"
Bromodichloromethane	ND	6.8	"
cis-1,3-Dichloropropene	ND	4.6	"
4-Methyl-2-pentanone (MIBK)	ND	8.3	"
trans-1,3-Dichloropropene	ND	4.6	"
Toluene	ND	3.8	"
1,1,2-Trichloroethane	ND	5.5	"
2-Hexanone (MBK)	ND	8.3	"
Dibromochloromethane	ND	8.6	"
Tetrachloroethene	ND	6.9	"
1,2-Dibromoethane (EDB)	ND	7.8	"
1,1,1,2-Tetrachloroethane	ND	7.0	"



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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG11504 - TO-15

Blank (EG11504-BLK1)

Prepared & Analyzed: 15-Jul-11

Chlorobenzene	ND	4.7	ug/m3
Ethylbenzene	ND	4.4	"
m,p-Xylene	ND	8.8	"
Styrene	ND	4.3	"
o-Xylene	ND	4.4	"
Bromoform	ND	10	"
1,1,2,2-Tetrachloroethane	ND	7.0	"
4-Ethyltoluene	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	12	"
1,4-Dichlorobenzene	ND	12	"
1,2-Dichlorobenzene	ND	12	"
1,2,4-Trichlorobenzene	ND	7.5	"
Hexachlorobutadiene	ND	11	"

Surrogate: 1,2-Dichloroethane-d4	206	"	214	96.3	76-134
Surrogate: Toluene-d8	205	"	207	99.1	78-125
Surrogate: 4-Bromofluorobenzene	347	"	365	95.3	77-127

LCS (EG11504-BS1)

Prepared & Analyzed: 15-Jul-11

Dichlorodifluoromethane (F12)	83	5.0	ug/m3	101	82.7	65-135
Vinyl chloride	40	2.6	"	52.0	76.6	65-135
Chloroethane	46	8.0	"	53.6	86.2	65-135
Trichlorofluoromethane (F11)	90	5.7	"	113	79.7	65-135
1,1-Dichloroethene	62	4.0	"	80.8	76.8	65-135
1,1,2-Trichlorotrifluoroethane (F113)	140	7.7	"	155	87.8	65-135
Methylene chloride (Dichloromethane)	55	3.5	"	70.8	77.3	65-135
trans-1,2-Dichloroethene	62	8.0	"	80.8	76.4	65-135
1,1-Dichloroethane	69	4.1	"	82.4	84.3	65-135
cis-1,2-Dichloroethene	59	4.0	"	80.0	74.1	65-135
Chloroform	85	5.0	"	99.2	85.5	65-135
1,1,1-Trichloroethane	94	5.5	"	111	84.8	65-135
1,2-Dichloroethane (EDC)	68	4.1	"	82.4	83.0	65-135



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DRAFT: Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG11504 - TO-15

LCS (EG11504-BS1)

Prepared & Analyzed: 15-Jul-11

Benzene	53	3.2	ug/m3	64.8		82.4	65-135			
Carbon tetrachloride	110	6.4	"	128		88.2	65-135			
Trichloroethene	97	5.5	"	110		88.3	65-135			
Toluene	63	3.8	"	76.8		82.5	65-135			
1,1,2-Trichloroethane	99	5.5	"	111		89.2	65-135			
Tetrachloroethene	120	6.9	"	138		83.5	65-135			
1,1,1,2-Tetrachloroethane	150	7.0	"	140		107	65-135			
Ethylbenzene	85	4.4	"	88.4		95.8	65-135			
m,p-Xylene	180	8.8	"	177		101	65-135			
o-Xylene	93	4.4	"	88.4		106	65-135			
1,1,2,2-Tetrachloroethane	170	7.0	"	140		118	65-135			

Surrogate: 1,2-Dichloroethane-d4	206		"	214		96.3	76-134			
Surrogate: Toluene-d8	201		"	207		97.2	78-125			
Surrogate: 4-Bromofluorobenzene	383		"	365		105	77-127			

LCS Dup (EG11504-BSD1)

Prepared & Analyzed: 15-Jul-11

Dichlorodifluoromethane (F12)	88	5.0	ug/m3	101		87.0	65-135	5.10	35	
Vinyl chloride	46	2.6	"	52.0		89.2	65-135	15.3	35	
Chloroethane	49	8.0	"	53.6		91.2	65-135	5.63	35	
Trichlorofluoromethane (F11)	91	5.7	"	113		80.7	65-135	1.26	35	
1,1-Dichloroethene	63	4.0	"	80.8		78.1	65-135	1.74	35	
1,1,2-Trichlorotrifluoroethane (F113)	130	7.7	"	155		83.4	65-135	5.11	35	
Methylene chloride (Dichloromethane)	55	3.5	"	70.8		77.2	65-135	0.129	35	
trans-1,2-Dichloroethene	62	8.0	"	80.8		76.3	65-135	0.130	35	
1,1-Dichloroethane	69	4.1	"	82.4		83.5	65-135	0.950	35	
cis-1,2-Dichloroethene	58	4.0	"	80.0		71.9	65-135	3.03	35	
Chloroform	82	5.0	"	99.2		82.7	65-135	3.32	35	
1,1,1-Trichloroethane	90	5.5	"	111		81.4	65-135	4.18	35	
1,2-Dichloroethane (EDC)	66	4.1	"	82.4		80.0	65-135	3.73	35	
Benzene	53	3.2	"	64.8		82.4	65-135	0.00	35	
Carbon tetrachloride	110	6.4	"	128		86.5	65-135	2.00	35	
Trichloroethene	98	5.5	"	110		89.8	65-135	1.68	35	
Toluene	63	3.8	"	76.8		82.1	65-135	0.544	35	



2470 Impala Drive
 Carlsbad, CA 92010
 760-804-9678 Phone
 760-804-9159 Fax

Atlas Geo-Sampling Company
 120 Nottaway Lane
 Alpharetta, GA 30009

Project: AG071211-13
 Project Number: Morgan Stanley / Vogue Cleaners
 Project Manager: Mr. Jim Fineis

Reported:
 18-Jul-11 08:47

DRAFT: Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG11504 - TO-15

LCS Dup (EG11504-BSD1)

Prepared & Analyzed: 15-Jul-11

1,1,2-Trichloroethane	100	5.5	ug/m3	111		90.0	65-135	0.886	35	
Tetrachloroethene	120	6.9	"	138		84.3	65-135	0.888	35	
1,1,1,2-Tetrachloroethane	140	7.0	"	140		103	65-135	3.74	35	
Ethylbenzene	83	4.4	"	88.4		94.3	65-135	1.62	35	
m,p-Xylene	180	8.8	"	177		100	65-135	0.915	35	
o-Xylene	94	4.4	"	88.4		106	65-135	0.612	35	
1,1,2,2-Tetrachloroethane	160	7.0	"	140		117	65-135	1.15	35	
Surrogate: 1,2-Dichloroethane-d4	199		"	214		93.0	76-134			
Surrogate: Toluene-d8	203		"	207		98.1	78-125			
Surrogate: 4-Bromofluorobenzene	386		"	365		106	77-127			



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Reported:
18-Jul-11 08:47

Notes and Definitions

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

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the Environmental Laboratory Accreditation Program (CA) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste for the following methods:

Certificate# 2741, 2743, 2579, 2754 & 2740 approved for EPA 8260 and LUFT GC/MS
Certificate# 2742, 2745, & 2741 approved for LUFT
Certificate# 2745 & 2742 approved for EPA 418.1

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the National Environmental Accreditation Conference Standards for the category Environmental Analysis Air and Emissions for the following analytes and methods:

1,2,4-Trichlorobenzene by EPA TO-15 & TO-14A
Hexachlorobutadiene by EPA TO-15 & TO-14A
1,2,4-Trimethylbenzene by EPA TO-14A
1,2-Dichlorobenzene by EPA TO-15 & TO-14A
1,3,5-Trimethylbenzene by EPA TO-14A
1,4-Dichlorobenzene by EPA TO-15 & TO-14A
Benzene by EPA TO-15 & TO-14A
Chlorobenzene by EPA TO-15 & TO-14A
Ethyl benzene by EPA TO-15 & TO-14A
Styrene by EPA TO-15 & TO-14A
Toluene by EPA TO-15 & TO-14A
Total Xylenes by EPA TO-15 & TO-14A
1,1,1-Trichloroethane by EPA TO-15 & TO-14A
1,1,2,2-Tetrachloroethane by EPA TO-15 & TO-14A
1,1,2-Trichloroethane by EPA TO-15 & TO-14A
1,1-Dichloroethane by EPA TO-15 & TO-14A
1,1-Dichloroethene by EPA TO-15 & TO-14A
1,2-Dichloroethane by EPA TO-15 & TO-14A
1,2-Dichloropropane by EPA TO-15 & TO-14A
Bromoform by EPA TO-15
Bromomethane by EPA TO-15 & TO-14A
Carbon tetrachloride by EPA TO-15 & TO-14A
Chloroethane by EPA TO-15
Chloroform by EPA TO-15 & TO-14A
Chloromethane by EPA TO-15 & TO-14A
cis-1,2-Dichloroethene by EPA TO-15
cis-1,2-Dichloropropene by EPA TO-15 & TO-14A
Methylene chloride by EPA TO-15 & TO-14A
Tetrachloroethane by EPA TO-15 & TO-14A
trans-1,2-Dichloroethene by EPA TO-15
trans-1,2-Dichloropropene by EPA TO-15 & TO-14A
Trichloroethene by EPA TO-15 & TO-14A
Vinyl chloride by EPA TO-15 & TO-14A
2-Butanone by EPA TO-15
4-Methyl-2-Pentanone by EPA TO-15
Hexane by EPA TO-15
Methyl tert-butyl ether by EPA TO-15
Vinyl acetate by EPA TO-15

This certification applies to samples analyzed in summa canisters.

Analytical Environmental Services, Inc.**Date:** 05-May-00

CLIENT: Williams Environmental Services, Inc
Lab Order: 0005086
Project: Vogue Cleaner/1525-0180
Lab ID: 0005086-001A

Client Sample ID: EA-1
Tag Number: EXCAVATION
Collection Date: 5/3/00 3:30:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B				Analyst: AB
Tetrachloroethene	61	2.9		µg/Kg	1	5/4/00 1:26:00 PM
Trichloroethene	64	2.9		µg/Kg	1	5/4/00 1:26:00 PM
Surr: 4-Bromofluorobenzene	83.8	70-112		%REC	1	5/4/00 1:26:00 PM
Surr: Dibromofluoromethane	101	67-133		%REC	1	5/4/00 1:26:00 PM
Surr: Toluene-d8	97.7	80-121		%REC	1	5/4/00 1:26:00 PM

Qualifiers: BRL - Below Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Analytical Environmental Services, Inc.

Date: 15-May-00

CLIENT: Williams Environmental Services, Inc
Lab Order: 0005282
Project: Vogue Cleaners
Lab ID: 0005282-001A

Client Sample ID: EA - 3
Tag Number: EXCAVATION WALL
Collection Date: 5/11/00 2:00:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						Analyst: AB
	SW8260B					
Tetrachloroethene	BRL	230		µg/Kg	50	5/15/00 10:08:00 AM
Trichloroethene	BRL	230		µg/Kg	50	5/15/00 10:08:00 AM
Surr: 4-Bromofluorobenzene	100	70-112		%REC	50	5/15/00 10:08:00 AM
Surr: Dibromofluoromethane	95.5	67-133		%REC	50	5/15/00 10:08:00 AM
Surr: Toluene-d8	97.0	80-121		%REC	50	5/15/00 10:08:00 AM

Qualifiers: BRL - Below Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Services, Inc.

Date: 15-May-00

CLIENT: Williams Environmental Services, Inc
Lab Order: 0005282
Project: Vogue Cleaners
Lab ID: 0005282-002A

Client Sample ID: EA - 4
Tag Number: EXCAVATION WALL
Collection Date: 5/11/00 1:30:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B				Analyst: AB
Tetrachloroethene	BRL	250		µg/Kg	50	5/15/00 10:52:00 AM
Trichloroethene	BRL	250		µg/Kg	50	5/15/00 10:52:00 AM
Surr: 4-Bromofluorobenzene	101	70-112		%REC	50	5/15/00 10:52:00 AM
Surr: Dibromofluoromethane	94.7	67-133		%REC	50	5/15/00 10:52:00 AM
Surr: Toluene-d8	96.3	80-121		%REC	50	5/15/00 10:52:00 AM

Qualifiers: BRL - Below Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Services, Inc.

Date: 15-May-00

CLIENT: Williams Environmental Services, Inc
Lab Order: 0005282
Project: Vogue Cleaners
Lab ID: 0005282-003A

Client Sample ID: EA - 5
Tag Number: EXCAVATION WALL
Collection Date: 5/11/00 1:45:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					Analyst: MJL	
SW8260B						
Tetrachloroethene	430	240		µg/Kg	50	5/15/00 3:36:00 PM
Trichloroethene	BRL	240		µg/Kg	50	5/15/00 3:36:00 PM
Surr: 4-Bromofluorobenzene	99.1	70-112		%REC	50	5/15/00 3:36:00 PM
Surr: Dibromofluoromethane	97.7	67-133		%REC	50	5/15/00 3:36:00 PM
Surr: Toluene-d8	97.7	80-121		%REC	50	5/15/00 3:36:00 PM

Qualifiers: BRL - Below Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Services, Inc.

Date: 15-May-00

CLIENT: Williams Environmental Services, Inc
Lab Order: 0005282
Project: Vogue Cleaners
Lab ID: 0005282-004A

Client Sample ID: EA - 6
Tag Number: EXCAVATION WALL
Collection Date: 5/11/00 1:01:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						Analyst: MJL
		SW8260B				
Tetrachloroethene	BRL	240		µg/Kg	50	5/15/00 4:20:00 PM
Trichloroethene	BRL	240		µg/Kg	50	5/15/00 4:20:00 PM
Surr: 4-Bromofluorobenzene	99.7	70-112		%REC	50	5/15/00 4:20:00 PM
Surr: Dibromofluoromethane	95.8	67-133		%REC	50	5/15/00 4:20:00 PM
Surr: Toluene-d8	96.6	80-121		%REC	50	5/15/00 4:20:00 PM

Qualifiers: BRL - Below Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Services, Inc.

Date: 28-Apr-00

CLIENT: Williams Environmental Services, Inc
Lab Order: 0004501
Project: Vogue Cleaner
Lab ID: 0004501-001A

Client Sample ID: ESB-01 C03
Tag Number:
Collection Date: 4/24/00 10:30:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B				Analyst: MJL
Tetrachloroethene	43	22		µg/Kg	1	4/27/00 3:55:00 PM
Trichloroethene	BRL	22		µg/Kg	1	4/27/00 3:55:00 PM
Surr: 4-Bromofluorobenzene	92.7	70-112		%REC	1	4/27/00 3:55:00 PM
Surr: Dibromofluoromethane	101	67-133		%REC	1	4/27/00 3:55:00 PM
Surr: Toluene-d8	99.5	80-121		%REC	1	4/27/00 3:55:00 PM

Qualifiers: BRL-Below Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding Time exceeded

Analytical Environmental Services, Inc.

Date: 28-Apr-00

CLIENT: Williams Environmental Services, Inc
Lab Order: 0004501
Project: Vogue Cleaner
Lab ID: 0004501-004A

Client Sample ID: ESB-04 C03
Tag Number:
Collection Date: 4/25/00 10:00:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						Analyst: MJL
Tetrachloroethene	38	22		µg/Kg	1	4/27/00 6:08:00 PM
Trichloroethene	BRL	22		µg/Kg	1	4/27/00 6:08:00 PM
Surr: 4-Bromofluorobenzene	90.9	70-112		%REC	1	4/27/00 6:08:00 PM
Surr: Dibromofluoromethane	101	67-133		%REC	1	4/27/00 6:08:00 PM
Surr: Toluene-d8	99.7	80-121		%REC	1	4/27/00 6:08:00 PM

Qualifiers: BRL-Below Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding Time exceeded

Analytical Environmental Services, Inc.

Date: 18-May-00

CLIENT: Williams Environmental Services, Inc
Lab Order: 0005230
Project: Vogue Cleaners
Lab ID: 0005230-002A

Client Sample ID: ESB-8
Tag Number:
Collection Date: 5/10/00 10:45:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B				Analyst: MJL
Tetrachloroethene	BRL	250		µg/Kg	50	5/15/00 5:05:00 PM
Trichloroethene	BRL	250		µg/Kg	50	5/15/00 5:05:00 PM
Surr: 4-Bromofluorobenzene	98.1	70-112		%REC	50	5/15/00 5:05:00 PM
Surr: Dibromofluoromethane	98.7	67-133		%REC	50	5/15/00 5:05:00 PM
Surr: Toluene-d8	97.6	80-121		%REC	50	5/15/00 5:05:00 PM

Qualifiers: BRL - Below Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Analytical Environmental Services, Inc.

Date: 18-May-00

CLIENT: Williams Environmental Services, Inc
Lab Order: 0005322
Project: Vogue Cleaners
Lab ID: 0005322-001A

Client Sample ID: ESB-9
Tag Number: Outside wall
Collection Date: 5/15/00 4:00:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B					Analyst: AB	
Tetrachloroethene	170	8.5		µg/Kg	1	5/16/00 6:21:00 PM
Trichloroethene	44	8.5		µg/Kg	1	5/16/00 6:21:00 PM
Surr: 4-Bromofluorobenzene	97.9	70-112		%REC	1	5/16/00 6:21:00 PM
Surr: Dibromofluoromethane	98.1	67-133		%REC	1	5/16/00 6:21:00 PM
Surr: Toluene-d8	98.3	80-121		%REC	1	5/16/00 6:21:00 PM

Qualifiers: BRL-Below Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding Time exceeded

Analytical Environmental Services, Inc.

Date: 18-May-00

CLIENT: Williams Environmental Services, Inc
Lab Order: 0005322
Project: Vogue Cleaners
Lab ID: 0005322-002A

Client Sample ID: ESB-10
Tag Number: Outside wall
Collection Date: 5/15/00 4:30:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B				Analyst: AB
Tetrachloroethene	29	7.5		µg/Kg	1	5/17/00 8:43:00 PM
Trichloroethene	8.3	7.5		µg/Kg	1	5/17/00 8:43:00 PM
Surr: 4-Bromofluorobenzene	88.1	70-112		%REC	1	5/17/00 8:43:00 PM
Surr: Dibromofluoromethane	98.7	67-133		%REC	1	5/17/00 8:43:00 PM
Surr: Toluene-d8	98.0	80-121		%REC	1	5/17/00 8:43:00 PM

Qualifiers: BRL-Below Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding Time exceeded

APPENDIX G
RISK REDUCTION STANDARD CALCULATIONS

**Summary of Risk Calculations with Soil and Groundwater Data
Maximum Concentration On-Site and Point of Demonstration
Former Vogue Cleaners
4020 Washington Road
Martinez, Georgia**

**Soil
(mg/kg)**

Constituent	Maximum Concentration	Location	RAGs Car	RAGs Non-Car
Cis-1,2 DCE	<0.0036	SB-25	NC	1,550.0
Tetrachloroethene	0.43	EA-5	23,700.0	346.0
Trichloroethene	0.06	EA-1	1,340.0	16.9

NC – Not Calculated

**Groundwater
(mg/L)**

Constituent	Maximum Concentration	Location	Concentration Point of Compliance	Location	RAGS Car	RAGs Non-Car	MCL
Cis-1,2 DCE	0.005	MW-2	<0.005	POD-1	NC	0.031	0.070
Tetrachloroethene	0.140	MW-5	<0.005	POD-1	0.018	0.018	0.005
Trichloroethene	0.026	MW-5	<0.005	POD-1	0.001	0.001	0.005

NC – Not Calculated

Table 2. Calculation of Type 3 Non-Carcinogenic Effects

cis-1,2-Dichloroethene

Equation 7 (Non-Carcinogenic Effects)

Data Input	Description	Value	Units
C	Concentration in Soil	1.55E+03	mg/kg
THI	Target Hazard Index	1	
RfDi	Reference Dose inhalation	NA	mg/kg/day
RfDo	Reference Dose oral	2.00E-03	mg/kg/day
BW	Body Weight	70	kg
AT	Averaging Time	1	years
EF	Exposure Frequency	100	days (construction)
ED	Exposure Duration	1	years (construction)
IRsoil	Soil Ingestion Rate	330	mg/day
IRair	Daily Inhalation Rate	20	m ³ /day (construction)
PEF	Particulate emission factor	4.63E+09	m ³ /kg
VF	Soil to air Volatilization factor	3.16E+03	m ³ /kg

Table 3. Calculation of Volatilization Factor

Soil to Air Volatilization Values
cis-1,2-Dichloroethene

Data Input	Description	Value	Units	Equation (calculated values)
VF	Volatilization Factor (calculated)	3.16E+03	m ³ /kg	
LS	Length of side	45	m	
V	wind speed	2.25	m/sec	
DH	diffusion height	2	m	
A	area of contamination	2.03E+07	cm ²	
Pi	Pi	3.14159		
alpha	calculated	1.94E-03		
T	exposure interval	7.90E+08	sec	
rho	density of soils	2.65	g/cm	
OC	soil organic carbon	0.02		
Dei	effective diffusivity (calculated)	0.052	cm ² /sec	$D_i * E^{0.33}$
Di	molecular diffusivity	0.0736	cm ² /sec	
E	soil porosity	0.35		
Kas	soil/air partition coeff (calculated)	1.91E-01		$H/K_d * 41$
H	Henry's Law Constant	4.07E-03	atm-m ³ /mol	
Kd	soil-water partition coeff (calculated)	8.758E-01		$K_{oc} * OC$
Koc	organic carbon partition coeff	4.38E+01	cm ³ /g	

Table 1. Calculation of Type 1 Carcinogenic Effects

Tetrachloroethene

Equation 6 (Carcinogenic Effects)

Data Input	Description	Value	Units
C	Concentration in Soil	2.37E+04	mg/kg
TR	Target Excess Cancer Risk	1.00E-05	
Sfi	Inhalation Cancer Slope Factor	9.10E-04	mg/kg/day
Sfo	Oral Cancer Slope Factor	2.10E-03	mg/kg/day
BW	Body Weight	70	kg
AT	Averaging Time	70	years
EF	Exposure Frequency	100	days (construction)
ED	Exposure Duration	1	years (construction)
IRsoil	Soil Ingestion Rate	330	mg/day
IRair	Daily Inhalation Rate	20	m ³ /day (construction)
PEF	Particulate emission factor	1.36E+09	m ³ /kg
VF	Soil to air Volatilization factor	2.66E+03	m ³ /kg

Table 2. Calculation of Type 1 Non-Carcinogenic Effects

Tetrachloroethene
Equation 7 (Non-Carcinogenic Effects)

Data Input	Description	Value	Units
C	Concentration in Soil	3.46E+02	mg/kg
THI	Target Hazard Index	1	
RfDi	Reference Dose inhalation	1.10E-02	mg/kg/day
RfDo	Reference Dose oral	6.00E-03	mg/kg/day
BW	Body Weight	70	kg
AT	Averaging Time	1	years
EF	Exposure Frequency	100	days (construction)
ED	Exposure Duration	1	years (construction)
IRsoil	Soil Ingestion Rate	330	mg/day
IRair	Daily Inhalation Rate	20	m ³ /day (construction)
PEF	Particulate emission factor	4.63E+09	m ³ /kg
VF	Soil to air Volatilization factor	2.66E+03	m ³ /kg

Table 3. Calculation of Volatilization Factor

Soil to Air Volatilization Values
Tetrachloroethene

Data Input	Description	Value	Units	Equation (calculated values)
VF	Volatilization Factor (calculated)	2.66E+03	m ³ /kg	
LS	Length of side	45	m	
V	wind speed	2.25	m/sec	
DH	diffusion height	2	m	
A	area of contamination	2.03E+07	cm ²	
Pi	Pi	3.14159		
alpha	calculated	2.55E-03		
T	exposure interval	7.90E+08	sec	
rho	density of soils	2.65	g/cm	
OC	soil organic carbon	0.02		
Dei	effective diffusivity (calculated)	0.035	cm ² /sec	$D_i * E^{0.33}$
Di	molecular diffusivity	0.05	cm ² /sec	
E	soil porosity	0.35		
Kas	soil/air partition coeff (calculated)	3.82E-01		$H/K_d * 41$
H	Henry's Law Constant	1.77E-02	atm-m ³ /mol	
Kd	soil-water partition coeff (calculated)	1.898E+00		$K_{oc} * OC$
Koc	organic carbon partition coeff	9.49E+01	cm ³ /g	

Table 1. Calculation of Type 3 Carcinogenic Effects

Trichloroethene

Equation 6 (Carcinogenic Effects)

Data Input	Description	Value	Units
C	Concentration in Soil	1.34E+03	mg/kg
TR	Target Excess Cancer Risk	1.00E-05	
Sfi	Inhalation Cancer Slope Factor	1.43E-02	mg/kg/day
Sfo	Oral Cancer Slope Factor	4.60E-02	mg/kg/day
BW	Body Weight	70	kg
AT	Averaging Time	70	years
EF	Exposure Frequency	100	days (construction)
ED	Exposure Duration	1	years (construction)
IRsoil	Soil Ingestion Rate	330	mg/day
IRair	Daily Inhalation Rate	20	m ³ /day (construction)
PEF	Particulate emission factor	4.63E+09	m ³ /kg
VF	Soil to air Volatilization factor	2.42E+03	m ³ /kg

Table 2. Calculation of Type 3 Non-Carcinogenic Effects

Trichloroethene
Equation 7 (Non-Carcinogenic Effects)

Data Input	Description	Value	Units
C	Concentration in Soil	1.69E+01	mg/kg
THI	Target Hazard Index	1	
RfDi	Reference Dose inhalation	5.71E-04	mg/kg/day
RfDo	Reference Dose oral	5.00E-04	mg/kg/day
BW	Body Weight	70	kg
AT	Averaging Time	1	years
EF	Exposure Frequency	100	days (construction)
ED	Exposure Duration	1	years (construction)
IRsoil	Soil Ingestion Rate	330	mg/day
IRair	Daily Inhalation Rate	20	m ³ /day (construction)
PEF	Particulate emission factor	1.36E+09	m ³ /kg
VF	Soil to air Volatilization factor	2.42E+03	m ³ /kg

Table 3. Calculation of Volatilization Factor

Soil to Air Volatilization Values
Trichloroethene

Data Input	Description	Value	Units	Equation (calculated values)
VF	Volatilization Factor (calculated)	2.42E+03	m ³ /kg	
LS	Length of side	45	m	
V	wind speed	2.25	m/sec	
DH	diffusion height	2	m	
A	area of contamination	2.03E+07	cm ²	
Pi	Pi	3.14159		
alpha	calculated	3.19E-03		
T	exposure interval	7.90E+08	sec	
rho	density of soils	2.65	g/cm	
OC	soil organic carbon	0.02		
Dei	effective diffusivity (calculated)	0.056	cm ² /sec	$D_i * E^{0.33}$
Di	molecular diffusivity	0.079	cm ² /sec	
E	soil porosity	0.35		
Kas	soil/air partition coeff (calculated)	2.98E-01		$H/K_d * 41$
H	Henry's Law Constant	9.83E-03	atm-m ³ /mol	
Kd	soil-water partition coeff (calculated)	1.354E+00		$K_{oc} * OC$
Koc	organic carbon partition coeff	6.77E+01	cm ³ /g	

Cis-1,2 Dichloroethene
Groundwater - Child
Non-Carcinogenic

$$C(\text{mg} / \text{L};_{\text{risk-based}}) = \frac{THI \times BW \times AT \times 365 \text{ days} / \text{yr}}{EF \times ED \times [(1 / RfD_i \times K \times IR_a) + (1 / RfD_o \times IR_w)]} \quad (1)$$

cis-1,2-Dichloroethene

C	3.13E-02
THI	1
RfDi	NA
RfDo	2.00E-03
BW	15
AT	6
EF	350
ED	6
IR _a	15
IR _w	1
K	0.5

Tetrachloroethene
Groundwater - Child
Carcinogenic

$$C(\text{mg} / \text{L};_{\text{risk-based}}) = \frac{TR \times BW \times AT \times 365 \text{ days} / \text{yr}}{EF \times ED \times [(SF_i \times K \times IR_a) + (SF_o \times IR_w)]} \quad (1)$$

Tetrachloroethene

C	1.75E-02
TR	1.00E-05
SFi	9.10E-04
SFo	2.10E-03
BW	15
AT	6
EF	350
ED	6
IR _a	15
IR _w	1
K	0.5

Tetrachloroethene
Groundwater - Child
Non-Carcinogenic

$$C(\text{mg} / \text{L};_{\text{risk-based}}) = \frac{THI \times BW \times AT \times 365 \text{ days} / \text{yr}}{EF \times ED \times [(1 / RfD_i \times K \times IR_a) + (1 / RfD_o \times IR_w)]} \quad (1)$$

Tetrachloroethene

C	1.84E-02
THI	1
RfDi	1.10E-02
RfDo	6.00E-03
BW	15
AT	6
EF	350
ED	6
IR _a	15
IR _w	1
K	0.5

Trichloroethene
Groundwater - Child
Carcinogenic

$$C(mg / L;_{risk-based}) = \frac{TR \times BW \times AT \times 365 \text{ days / yr}}{EF \times ED \times [(SF_i \times K \times IR_a) + (SF_o \times IR_w)]} \quad (1)$$

Trichloroethene

C	1.02E-03
TR	1.00E-05
SFi	1.43E-02
SFo	4.60E-02
BW	15
AT	6
EF	350
ED	6
IR _a	15
IR _w	1
K	0.5

Trichloroethene
Groundwater - Child
Non-Carcinogenic

$$C(\text{mg} / \text{L};_{\text{risk-based}}) = \frac{THI \times BW \times AT \times 365 \text{ days} / \text{yr}}{EF \times ED \times [(1 / RfD_i \times K \times IR_a) + (1 / RfD_o \times IR_w)]} \quad (1)$$

Trichloroethene

C	1.03E-03
THI	1
RfDi	5.71E-04
RfDo	5.00E-04
BW	15
AT	6
EF	350
ED	6
IR _a	15
IR _w	1
K	0.5