ARCADIS

Infrastructure · Water · Environment · Buildings

Bayer MaterialScience LLC

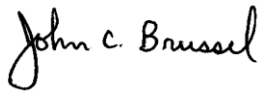
Vapor Intrusion Investigation Summary Report

125 New South Road
Hicksville, New York
USEPA ID No. NYD002920312

August 2011

ARCADIS

Andrew C. Enigk
Project Environmental Scientist



John C. Brussel, PE
Principal Engineer

Vapor Intrusion Investigation Summary Report

125 New South Road
Hicksville, New York

Prepared for:
Bayer MaterialScience LLC

Prepared by:
ARCADIS of New York, Inc.
6723 Towpath Road
P.O. Box 66
Syracuse
New York 13214-0066
Tel 315.446.9120
Fax 315.449.4111

Our Ref.:
B0032305.0004 #10

Date:
August 2011

Table of Contents

Table of Contents

Figure

Appendices

Compact Disc

1. Introduction

This report summarizes the results of the vapor intrusion (VI) investigation performed at the Simone Development (Simone) building complex located at 1 Enterprise Place, Hicksville, New York. The building complex is on property adjacent to and immediately east of the Bayer MaterialScience LLC site located at 125 New South Road, Hicksville, New York ("the Bayer site"). The VI investigation was implemented to evaluate the following:

- The potential presence, concentration, and distribution of volatile organic compounds (VOCs) in soil vapor below the Simone building complex (hereafter, "sub-slab vapor").

- The potential presence of VOC vapors in the indoor air of the Simone building complex.

The VI investigation was implemented by ARCADIS in April and May 2011 and consisted of a building reconnaissance, product inventory, and sub-slab vapor and indoor air sampling in the Simone building complex. The VI investigation activities were implemented in accordance with the following:

- The *Vapor Intrusion Investigation Work Plan* (ARCADIS, March 2011) ("the VI Investigation Work Plan"), which was approved by the New York State Department of Environmental Conservation (NYSDEC) in e-mail correspondence dated March 22, 2011.

- April 25, 2011 e-mail correspondence from ARCADIS to the NYSDEC that presents the findings of the building reconnaissance and product inventory and includes a figure showing proposed sampling locations.

- An April 26, 2011 telephone conference call with the NYSDEC and New York State Department of Health (NYSDOH) discussing the selection of sampling locations.

- April 26, 2011 e-mail correspondence from the NYSDEC providing approval of the sampling locations.

Final laboratory analytical data packages were provided by the laboratory on May 16, 2011, and data validation was completed by ARCADIS on June, 1, 2011. The validated

laboratory analytical results for the VI investigation were provided to the building owner (Simone) and the NYSDEC via e-mail correspondence dated June 3, 2011. The data submittal to the owner was within 30 days following receipt of validated data as required in Article 27, Title 24 of the NYS Environmental Conservation Law.

1.1 Report Organization

The report is organized as follows:

Section		Purpose
Section 1 -	Introduction	Presents a brief overview of the VI investigation and relevant background information.
Section 2 -	Vapor Intrusion Investigation Activities	Describes work activities performed as part of the VI investigation.
Section 3 -	Vapor Intrusion Investigation Results	Summarizes the results obtained from the VI investigation field activities.
Section 4 -	Conclusion and Recommendations	Presents conclusions and recommendations based on the investigation results.

1.2 Background Information

Based on findings of the initial soil vapor investigation (SVI) at the Bayer site (completed in September 2007), the NYSDEC requested that a walk-through of the Simone building complex be performed to observe operations at the building and determine if sub-slab vapor and indoor air sampling was needed. On June 4, 2008, Bayer and ARCADIS were accompanied by representatives from the NYSDEC, NYSDOH, and Simone Development for the walk-through of the Simone building complex. Businesses that occupied space at the complex included Allied Building Products (Allied), Publishers Circulation Fulfillment (PCF) Newspaper Delivery, Empire Bakery Equipment (Empire), Coral Graphics, Big Bear Cycles, New Business Solutions (NBS), and Williams Specialized, Inc. The walk-through did not include a full building reconnaissance or product inventory. The walk-through was an opportunity for Bayer, ARCADIS, the NYSDEC, and NYSDOH to observe the general construction of the building, potential use of products containing VOCs, heating ventilation and air conditioning (HVAC) systems for the building, overhead door locations, types of businesses occupying the building, general locations of floor drains, the roof drainage system, and general storm water management. During the walk-through, businesses observed to have potential sources of VOCs were the following:

Business Name	Business Description	Potential VOC Source
Allied	Building materials distributor	Outside/Inside Chemical Storage/Product Inventory, Vehicle Maintenance
Empire Bakery Equipment	Bakery equipment and systems for baking and food service industries	Parts washing machine located in in-house workshop, paint and painting equipment
Big Boar Cycles	Motorcycle retail, building, customizing, maintenance, and restoring	General motorcycle maintenance, parts washing, chemical storage

Based on follow-up SVI work at the Bayer site that identified VOCs at elevated concentrations following source (soil) removal activities in 2009, the NYSDEC submitted a February 23, 2010 letter to Bayer that requested implementation of a phased offsite soil vapor investigation to assess if the Bayer site may be impacting indoor air quality at offsite buildings, particularly the adjacent Simone building complex. In subsequent conference calls, the NYSDEC and NYSDOH requested that a VI investigation, involving sub-slab vapor and indoor air sampling, be conducted within the Simone building complex.

A description of the Simone building complex and property history is presented below. A summary of relevant previous investigations at the Bayer property is also presented below.

1.2.1 Simone Building Complex Description and History

The Simone building complex occupies just over 150,000 square feet on a 7.6 acre lot bordered to the west by the Bayer site and various commercial/industrial properties to the north, south, and east. The building is a rectangular-shaped, one-story structure that is oriented in a north-south direction and has a concrete slab-on-grade. The location of Simone building complex in relation to the Bayer site is shown on Figure 1.

Based on information provided on the Nassau County Department of Assessment (NCDA) website, the Simone building complex was constructed in 1967 for use as a storage facility by Grumman Aerospace Corporation (now known as Northrop Grumman). Information concerning ownership of the building since 1967, the year Simone acquired the property, and the history of building tenants and their activities, was requested of Simone as part of the reconnaissance activities described herein, but was not available. Tenants occupying space at the Simone building complex when the

VI investigation was implemented include the following (starting from the southern end of the building complex and continuing to the north end), most of which were present during the June 2008 walk-through: Allied, Empire, Mash City Business Systems (Mash City), NBS, and DWG Distribution (DWG). In general, the tenant hours of operation are typically eight to ten hours per day during regular business hours, Monday through Friday. Allied operates a second shift for an additional eight hours. The two spaces formerly occupied by Coral Graphics and PCF had no occupants when the VI investigation was conducted. NBS occupies two spaces at the northern end of the Simone building complex.

1.2.2 Summary of Previous Investigations

Soil samples have been collected from approximately 175 locations at the Bayer site and analyzed for VOCs since the start of the RCRA Facility Investigation (RFI) in February 2004. Outside of the Plant 1 area, no VOCs other than acetone (a common laboratory artifact) were detected in soils at concentrations exceeding the soil guidance values presented in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) titled "Determination of Soil Cleanup Objectives and Cleanup Levels," HWR-94-4046, dated January 24, 1994 (TAGM 4046). A total of 9 VOCs were identified in the Plant 1 area soils at concentrations exceeding the TAGM 4046 soil guidance values. Of these constituents, only one VOC (tetrachloroethene – also referred to as "PCE") was detected at a concentration exceeding the commercial use soil cleanup objectives (SCOs) presented in Title 6 of the Official Compilation of Codes, Rules, and Regulations of the State of New York (6 NYCRR) Part 375-6.8(b). VOC-impacted soil in and around the Plant 1 area was removed as part of an interim corrective measure (ICM) in 2009.

Details of the VOC soil sampling programs and the 2009 ICM are summarized in the VI Investigation Work Plan and presented in the following documents, which have been approved by the NYSDEC:

- *RCRA Facility Investigation Report* prepared by BBL (now known as ARCADIS) (BBL, June 2004).
- Phase II RFI Report contained in a letter from BBL to the NYSDEC dated January 5, 2005.
- *Interim Corrective Measure Certification Report* (BBL, November 2005).

- Phase VI Pre-Design Soil Sampling Plan contained in a letter from ARCADIS to the NYSDEC dated March 5, 2007 and follow-up e-mail correspondence from ARCADIS BBL to the NYSDEC dated April 9, 2007.

- *Interim Corrective Measure Additional PCB Soil Removal Certification Report* (ARCADIS, January 2010).

In addition to the soil sampling, soil vapor sampling activities were previously performed at the Bayer site as part of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Remedial Investigation (RI) in 1989 and a four-phase SVI completed between September 2007 and August 2009. Soil vapor samples have been collected from a total of 29 locations (one or more samples per location) at the Bayer site. Soil vapor sampling locations were selected to provide coverage across the site, including in areas where building construction may occur during site redevelopment, within/near footprints of the former plant buildings, near existing and former sumps, and along the perimeter of the site. The first three phases of the soil vapor investigation were performed to evaluate the presence and extent of VOCs in soil vapor at the site. The fourth phase was conducted to assess potential changes in site-wide concentrations after VOC-impacted soil had been removed from the Plant 1 footprint as part of the 2009 ICM. The soil vapor sampling locations from the four-phase SVI are shown on Figure 1. The results for the CERCLA RI and four-phase SVI and related information are briefly summarized below (and in the VI Investigation Work Plan) and detailed in the following documents and correspondence:

- *Remedial Investigation Report* (Leggette, Brashears & Graham, Inc., revised August 1992).

- A December 20, 2007 letter report from ARCADIS to the NYSDEC (the “Phase I SVI Report”).

- July 16, 2008 e-mail correspondence from ARCADIS to the NYSDEC summarizing the Phase II SVI and a November 19, 2008 letter responding to NYSDEC comments on the Phase II SVI.

- February 25, 2008 e-mail correspondence from ARCADIS to the NYSDEC summarizing the findings of the Phase III soil vapor sampling.

- September 28, 2009 and October 6, 2009 e-mail correspondence from ARCADIS to the NYSDEC providing laboratory analytical results for the Phase IV SVI.

Because the NYSDEC has not established standards, criteria, or guidance values for VOCs in soil vapor, soil vapor data from the previous soil vapor investigations were compared to air guideline values presented in the NYSDOH document titled "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York", dated October 2006 (hereafter, "the NYSDOH VI Guidance"). PCE and trichloroethene (TCE) were detected in several soil vapor samples at concentrations exceeding these "screening criteria". The highest concentrations of PCE and TCE detected in soil vapor were in the following areas:

- Within the footprints of the former onsite buildings (particularly the Plant 1 building where, as indicated above, VOC-impacted soil was removed in 2009).

- Near Sumps 1 and 2 (also referred to as Areas of Concern [AOC] 28 and 29), which have been subject to a soil flushing remedial action by Occidental Chemical Corporation (former site owner and responsible party) to address impacts from former VOC discharges to the sumps. That work has been performed pursuant to a Record of Decision issued by the United Environmental Protection Agency (USEPA) in 1994.

Elevated PCE and TCE concentrations in soil vapor were believed to extend from the Plant 1 area and AOCs 28 and 29 toward the eastern property boundary. Based on these findings, the NYSDEC and NYSDOH requested that a VI investigation be performed at the Simone building complex.

2. Vapor Intrusion Investigation Activities

This section presents a description of the field activities performed as part of the VI investigation at the Simone building complex, including:

- Building Reconnaissance and Product Inventory
- Sub-Slab Vapor Sampling
- Indoor Air Sampling
- Outdoor Air Sampling

A discussion of the building reconnaissance and product inventory is presented below, followed by a discussion of the sub-slab vapor and indoor/outdoor air sampling activities.

2.1 Building Reconnaissance and Product Inventory

ARCADIS completed building reconnaissance and product inventory activities inside the Simone building complex between April 11, 2011 and April 22, 2011. The activities were performed at every tenant space (occupied and unoccupied) at the complex and outside of the complex.

The building reconnaissance was performed to: (1) observe the layout and construction of each tenant space; (2) identify floor penetrations, cracks, or other preferential pathways where VOCs, if present in the subsurface, could potentially enter the building; and (3) select final sub-slab vapor and indoor air sampling locations. As part of the reconnaissance, ARCADIS used a photoionization detector (PID) capable of measuring VOCs at the parts per billion level (i.e., a ppbRAE) to evaluate the potential presence of VOCs migrating through the potential pathways.

The product inventory was performed to document products containing VOCs (or potentially containing VOCs) that are used, handled, or stored in the buildings. ARCADIS used the ppbRAE to evaluate the presence of VOCs originating from product/storage containers or other potential sources inside the buildings.

As part of these activities, ARCADIS also met with personnel from Simone and tenant owners to discuss the types of HVAC systems used in the building/tenant spaces.

Results of the reconnaissance and product inventory for each tenant space were documented on the NYSDOH Indoor Air Quality Questionnaire and Building Inventory

form (Appendix B of the NYSDOH VI Guidance). The completed forms are included in Appendix A. Drawings showing the building layouts with notes from observations made during the reconnaissance are included in Appendix B. Findings of the product inventory are presented in Appendix C. Representative photographs taken inside the buildings are included on the attached compact disc (CD), and the approximate locations where the photographs were taken are shown on the building layout drawings.

2.2 Sub-Slab Vapor, Indoor Air, and Outdoor Air Sampling

Sub-slab vapor and indoor/outdoor air sampling were performed following completion of the building reconnaissance and product inventory. Temporary sampling probes were installed at each sub-slab vapor sampling location on April 27, 2011 and April 28, 2011. Following the probe installation work, samples were collected from 8 co-located (paired) sub-slab vapor and indoor air sampling locations and from 3 outdoor sampling locations. Sub-slab vapor and indoor air sampling was performed concurrently (April 27th or 28th), except indoor air sampling at locations IA-7 and IA-8 was delayed until May 5, 2011 because some of the sample canisters provided by the laboratory had an insufficient starting vacuum (i.e., less than 28 inches of mercury [in. of Hg]).

The sub-slab vapor and indoor air sampling locations were selected to: (1) align with previous soil vapor sampling locations along the eastern portion of Bayer's property where VOCs had been identified in soil vapor; and (2) provide spatial coverage inside the Simone building complex. Outdoor (ambient) air samples were collected from locations that were generally upwind of the complex.

The sub-slab vapor and indoor air samples were designated by the prefix "SSV-" (for sub-slab vapor) and "IA-" (for indoor air), followed by a number (1 to 8). The outdoor air sample was designated "AMB-", followed by the date of collection. The sub-slab vapor and indoor/outdoor air sampling locations are shown on Figure 1.

Details of the sub-slab vapor probe installation and sampling activities are presented below.

2.2.1 Temporary Sub-Slab Vapor Probe Installation

The sub-slab vapor probes were installed inside the Simone Building in accordance with the procedures approved by the NYSDEC and NYSDOH that are presented in the VI Investigation Work Plan. Each probe was installed by coring through the floor slab

using a hammer drill equipped with a ½-inch or ¾-inch diameter pulverizing bit, and then inserting a section of ¼-inch inside diameter Teflon®-lined polyethylene tubing into the corehole. The drill bit was advanced an additional 3 to 6 inches into the sub-slab material (where encountered) to create an open cavity. The tubing was extended approximately 2 inches below the bottom of the concrete floor slab. At each probe location, the annular space between the tubing and the corehole was sealed (from the base of the concrete slab to the floor surface) using: (1) hydrated granular bentonite; (2) melted beeswax; or (3) a combination of hydrated granular bentonite and beeswax to the surface. The exposed end of the sample tubing was then connected directly to the sample canister and purge line using Swagelok® fittings.

2.2.2 Sub-Slab Vapor Purging

Purging was performed prior to sampling at each sub-slab vapor probe (on the same day that sampling was completed). Purging was performed to remove atmospheric air from each sub-slab vapor probe. At least 3 “implant” volumes (the interior volume of the tubing at each sub-slab vapor probe location) were purged from each probe using a gas-tight syringe. The purging was performed at a flow rate of less than 200 milliliters per minute (mL/min). Purge air collected in the syringe was discharged into a Tedlar bag for release outdoors.

A tracer gas (helium) was used in connection with the purging activities to provide a means to evaluate the integrity of the seals around the sub-slab vapor probe at all but one sample location (SSV-5 where carpeting was present and would have been damaged by the tracer testing activities). A small shroud was placed over each probe and sealed to the concrete floor using bentonite grout. Helium was subsequently introduced into the enclosure. The helium levels in the enclosure (pre- and post-purging) and in the vapor extracted through the sample tubing (post-purging and post-sampling) were measured using a helium gas detector. Helium levels recorded in connection with the purging and sampling are presented on the sampling logs included in Appendix D.

Helium was detected at trace amounts in the sample tubing following sample collection at locations SSV-1, SSV-6, SSV-7, and SSV-8. All helium levels measured in the vapor extracted from these locations were below 1% concentration, which is less than the 10% threshold identified in Section 2.7.5 of the NYSDOH VI Guidance, and therefore considered acceptable.

2.2.3 Sub-Slab Vapor Sampling

Sub-slab vapor samples were collected concurrently following purging -- from the three southern-most locations in the complex on April 27, 2011 and from the remaining locations on April 28, 2011. Sampling took place over an approximate 8 hour period. Each sample was collected using a 6-liter SUMMA® canister with an attached flow regulator pre-set to draw vapor at approximately 12.5 mL/min. The pre-cleaned (batch-certified) canisters used for the sampling had an initial vacuum of at least 28 in. of Hg. When canister vacuums reached between 3.5 and 6.0 in. of Hg, the valves on the SUMMA® canisters were closed, leaving a vacuum in the canisters as a means for the laboratory to verify that the canisters did not leak while in transit. Vacuum readings obtained prior to and at the end of sampling are presented on the soil vapor sampling logs included in Appendix D. Representative photographs taken during purging and sampling are included in Appendix E.

Two duplicate sub-slab vapor samples were collected in support of the VI investigation. The duplicate samples (samples DUP-042811 and DUP2-042711) were collected at sampling locations SSV-2 and IA-5, respectively. The sub-slab vapor samples and duplicate samples were delivered to TestAmerica Laboratories, Inc. (TestAmerica) of Burlington, Vermont for laboratory analysis for VOCs in accordance with USEPA Compendium Method TO-15.

The sub-slab vapor sampling probes were removed following sample collection, and the core holes at each location were filled with hydraulic cement.

2.2.4 Indoor and Outdoor Air Sampling

As described in Subsection 2.2, each of the 8 indoor air samples was paired with a sub-slab vapor sample that was collected concurrently, with two exceptions: indoor air samples from locations IA-7 and IA-8 were collected after the corresponding sub-slab vapor samples were collected. The slight delay in the sampling at locations IA-7 and IA-8 was acceptable to NYSDOH, as discussed during an April 28, 2011 conference call and documented in April 28, 2011 e-mail correspondence to the NYSDOH and NYSDEC. Three outdoor air samples were collected as part of the VI investigation (one on each day of sampling). Each sample was collected generally upwind from the building complex, over an 8-hour sampling period. Consistent with the sub-slab vapor sampling approach, the indoor/outdoor air samples were collected using 6-liter SUMMA® canisters with an attached flow regulator set to draw air at 12.5 mL/min. The valve on each canister was closed when the negative canister vacuum reached

between 2.5 to 5.5 in. of Hg. Each indoor/outdoor air sample was delivered to TestAmerica and analyzed for VOCs in accordance with USEPA Compendium Low-Level Method TO-15. Conditions encountered during the indoor and outdoor air sampling are identified on the sampling logs in Appendix D.

3. Vapor Intrusion Investigation Results

This section summarizes the results obtained for the VI investigation, including findings from the building reconnaissance and product inventory, and analytical results obtained for the sub-slab vapor, indoor air, and outdoor air sampling.

3.1 Building Reconnaissance and Product Inventory Findings

Key findings from the building reconnaissance and product inventory are summarized below. For additional details, refer to the questionnaire/inventory forms, building layout drawings, product inventory forms, and photographs presented in Appendices A, B, C, and E, respectively.

3.1.1 Building Use

All of the tenant spaces at the Simone building complex are within a single story, slab on grade, steel-framed structure with masonry walls and/or concrete block walls. A general description of each tenant space and its use is provided below, organized by location (starting with businesses at the south end of the facility and proceeding northward). Refer to Figure 1 for the location of each tenant space.

- *Allied*: Is a commercial building supply warehouse/distribution business with an office area and showroom. The warehouse/distribution area has a concrete floor slab supporting large shelves of building products, shipping/receiving areas (loading docks) with overhead door access, a break/locker room, and a maintenance area. The office area is physically separated from the warehouse area via internal walls, and access between the areas is provided through a standard double door. The office area has typical office rooms (e.g., break room, conference room, lavatories, offices, open desk areas), a showroom area, and a retail area for smaller building products. The office has commercial carpet and vinyl tile flooring over the concrete slab.

- *PCF*: Is currently vacant, but when it was occupied by PCF, the space was used for newspaper distribution. The area consists of open warehouse, a small office area with a lavatory, a storage area with two overhead doors, and a fenced storage area. The warehouse concrete slab had been recently painted prior to the VI investigation, and the office area had some vinyl tile flooring over the concrete slab.

- *Empire*: Is a distributer of bakery equipment and systems to the baking and food service industries. The space consists of a typical office area (e.g., offices, break room, conference room, and lavatories) that leads into the warehouse area where they repair, finish/paint, test/demonstrate, and distribute bakery equipment. The office area and test/demonstration area flooring is commercial carpeting and vinyl tile over the existing concrete slab. The remaining areas consist of painted concrete slab. The warehouse area has two overhead doors, one located on the western side of the building (back) and one for the loading dock area located on the eastern side of the building (front).

- *Coral Graphics*: Is currently vacant, but when it was occupied by Coral Graphics, the space was used for various graphic design services (i.e., book covers, marketing materials, corporate brochures). The area consists of open warehouse and a small office area with a lavatory. The floor is a recently-painted concrete slab. The warehouse area has two overhead doors, one located on the western side (back) of the building and one for the loading dock area on the eastern side (front) of the building.

- *Mash City*: Is a full service photo copier distribution and service company. Approximately the eastern half (front) of the space is an office environment consisting of work stations, offices, lavatories, a break room, and a conference room. The office area flooring is a mixture of commercial carpet and tile over concrete slab. The western half (back) of the space consists of various work stations and printer storage. The western half floor consists of sealed concrete slab and has one overhead door.

- *NBS*: Is a distributor of store displays and fixtures. The space consists of warehouse and office areas. The warehouse area has several small work stations and a large storage/stock area. The flooring in the warehouse is a sealed concrete slab. The office area is comprised of various cubicles, an office, break room, and lavatory with mixed commercial vinyl tile and carpet flooring. One overhead door is located on the western side (back) of the space. NBS also has a separate warehouse area for stock in the last space at the northern end of the building. The warehouse has an overhead door on the east side (front) of the building at the loading dock and another overhead door on the west side (back). The separate warehouse located on the northern-most end of the Simone building complex has a lavatory and sealed concrete floor.

- *DWG*: Is a distributor of surveillance equipment. The space consists of retail, office, and warehouse areas. A small retail area is located on the east side of the space and consists of a sales floor with shelves of surveillance products and a lavatory. The remaining area to the west of the sales floor consists of office area (e.g., offices, kitchen/break room, conference room, work stations, lavatories). The northern end of the space is a warehouse area for stock storage. The retail area flooring is commercial tile, the office area flooring is a mix of commercial tile and carpet, and the warehouse area flooring is sealed concrete. The warehouse has an overhead door on the east side (front) of the building at the loading dock and another overhead door on the west side (back).

3.1.2 Building HVAC

Based on discussions with Simone's building manager and observations during the building reconnaissance, most of the building is heated via a combination of indirect natural gas-fired components/forced air systems and unit heaters. Central air conditioning units located atop the roof of each building provide the source for cooling within the buildings.

Outside makeup air is introduced and circulated throughout each building during the heating and cooling seasons, but specific details on how the air is circulated for the entire building was not determined/available.

3.1.3 Potential Pathways and Indoor Sources

The building floor is constructed of poured concrete that ranges from approximately 6 to 10 inches in thickness. In general, the apparent original concrete floor remains in most of the warehouse areas of each tenant space. The concrete floor is covered by commercial tile/carpet in the office/retail areas. The concrete floor that is visible (uncovered) is painted or coated with an epoxy sealant. The walls of each building are constructed of half brick on the bottom and half corrugated steel panels. The walls and concrete flooring in each building were observed to be in generally good condition. Some cracks were observed in the floor slabs, as described below. No floor drains were observed in the buildings. Penetrations to the building slab appeared to be limited to select building utilities (sanitary sewer pipes and roof drainage pipes) and structural steel columns. Gas and water service to the building complex generally enters (and continues through the building) above the slab.

Some of the roof drains discharge storm water to the asphalt driveway on the west side of the building, which slopes toward open-bottomed dry wells. Some of the roof drains penetrate the concrete slab and are presumed to discharge to the same dry wells.

A soil pile of unknown origin was noted on the west side of the Simone complex building along the southern end, near Allied. Aerial photographs of the soil pile show the pile diminishing in size throughout the years. The property manager did not have any information on the soil pile.

Observations specific to each tenant space of the building are summarized below:

- *Allied*: The warehouse concrete slab had various areas with cracks and several patched areas where the slab had been removed and replaced with new concrete. The office area vinyl tile and carpet flooring appeared to be in good condition. The slab condition under the flooring could not be observed, but the floor slab thickness in the office area was the same as in the warehouse (approximately 8 inches). The employee offices contained various household cleaning and office products. The retail and showroom areas attached to the offices had individual containers of building products from the warehouse for show and for sale. PID readings were recorded throughout the tenant space (in areas near product containers) and ranged from 0.0 to 5,094 ppb in the warehouse area and 1,434 to 2,570 ppb in the office area. These readings are attributed to the inventory of products within the tenant space, including (but not limited to) paints, oils, adhesives, solvents, sealants, and lubricants. See the photos of these products/chemicals on the attached CD, and refer to Appendix C for an inventory of the products and the individual PID readings.

  Allied also has outside storage of building materials on the southern-most end of the Simone property. The outside storage area primarily consists of palletized roofing materials and adhesives. In the past, Bayer has noted open containers in the corner of this area near the Long Island Railroad (LIRR). Storm water in this area discharges to various dry wells that are presumed to be open-bottomed based on discussions with the property manager.

- *PCF*: The concrete slab in the warehouse area had some minor cracks. As previously indicated, this tenant space was vacant. No products were found in the main warehouse area. The small office area on the eastern side of the space had a couple of household cleaning products. The background PID reading recorded for this area was 1,678 ppb.

- *Empire*: The concrete slab in the warehouse area had some minor cracks. Products found in the warehouse area include paints, oils, cleaners, degreasers, and petroleum products. The warehouse has a large parts degreaser and a paint booth that are open to the warehouse. The office area and test/demonstration area vinyl tile and carpeting appeared to be in good condition. The slab condition under the flooring is unknown. Products found in the office and test/demonstration area were primarily household cleaning products and paints. PID readings within this tenant space ranged from 732 ppb to 83,900 ppb. The highest PID reading was obtained immediately adjacent to an approximately 55-gallon holding tank for spent oil and cleaning solution in the southern portion of the tenant space. The second highest reading (8,709 ppb) was obtained immediately adjacent to an approximately 35 gallon used/waste liquid container in the southwest corner of the tenant space. Elevated PID readings in this space were also obtained near and attributed to the use of paints in the open paint booth and solvents in the parts cleaner area of the warehouse, which are normal and acceptable tenant operations. Lower PID readings indoors were obtained further away from the above-referenced features.

- *Coral Graphics:* The concrete slab in the warehouse and office area appeared to be in good condition. As previously indicated, this tenant space was vacant. No products were found in this section of the building complex. The walls and floor were recently painted. The background PID reading recorded for this tenant area was 1,695 ppb.

- *Mash City*: The concrete slab in the warehouse area appeared to be in good condition. The vinyl and carpet flooring in the office area were also observed to be in good condition. Products used in the warehouse area consist of various cleaners, lubricants, degreasers, and adhesives used for printer repair and maintenance. Products found in the office area consisted of paints, joint compound, concrete stain, and household cleaning products. The PID readings recorded for the area ranged from 37 ppb to 316 ppb.

- *NBS*: The concrete slab in both of NBS's warehouse areas appeared to be in good condition. The vinyl and carpet flooring in the office area appeared to be in good condition. Products in the southern warehouse area consist of lubricants, paints, adhesives, and degreasers. Products in the office area consist of paints and household cleaning products. The warehouse area at the northern end of the Simone building complex has products such as paints, adhesives, and household cleaning products. PID readings ranged from 50 ppb to 2,266 ppb in the southern

warehouse/office area and from 1,200 ppb to 1,909 ppb in the northern warehouse area. The highest reading in this tenant space (2,266 ppb) was in an area where painting was performed.

- *DWG*: The concrete slab in the warehouse area had some minor cracks, but was generally in good condition. The vinyl and carpet flooring in the office and retail areas were also observed to be in good condition. Products such as adhesives, paints, solvents, degreasers, and household cleaning products were found in the office and retail areas. No products were found in the warehouse area. PID readings recorded in the areas ranged from 0.0 to 128 ppb.

The analytical results for the sub-slab vapor and indoor air samples (discussed below) support a conclusion that the elevated PID readings found in each tenant area are unrelated to sub-slab conditions. PID readings obtained in the buildings, including near equipment/product containers, are presented in Appendices B and C.

3.2 Sub-Slab Vapor and Indoor/Outdoor Air Analytical Results

Laboratory analytical results for the sub-slab vapor, indoor air, and outdoor air samples are presented in Table 1. The results have been validated by ARCADIS and were found to be of good quality and useable, as intended, with one minor exception. The analytical results for sub-slab vapor sample SSV-6 were either rejected or qualified during validation because the sample canister vacuum measured and recorded by the laboratory upon receipt was 0.0 in. of Hg. (i.e., analytical results reported by the laboratory as non-detect were rejected, and the detected results were qualified as "estimated"). The estimated values for sample SSV-6 indicate that the constituents were positively identified, but the concentrations could be higher. The data validation report and full laboratory analytical data report, with NYSDEC Analytical Services Protocol (ASP) Category B data deliverable-type package, are included on the attached CD.

The sub-slab soil vapor, indoor air, and outdoor air analytical results are summarized as follows:

- A total of 21 different VOCs were detected in the sub-slab vapor and indoor air samples at concentrations above laboratory detection limits. Of these constituents, 13 were also detected in ambient (outdoor) air samples.

- Concentrations of VOCs detected in the indoor air samples were all well-below the available air guideline values presented in Table 3.1 of the NYSDOH VI Guidance. Only three VOCs were detected in the indoor air samples at concentrations greater than the 90th percentile of background indoor air values observed by the USEPA in a study of public and commercial office buildings, per USEPA database information referenced in Section 3.2.4 of the NYSDOH VI Guidance. These three VOCs include:

  - Ethylbenzene at a concentration of 11 micrograms per cubic meter (µg/m^3) in sample IA-2.

  - Methylene chloride at concentrations of 24 µg/ m^3, 30 µg/ m^3, and 22 µg/ m^3 in samples IA-3, IA-7, and IA-8, respectfully.

  - Toluene at concentrations of 380 µg/ m^3, 270 µg/ m^3, and 56 µg/ m^3 in samples IA-3, IA-5, and IA-6, respectfully.

  In all cases, the methylene chloride and toluene concentrations identified in indoor air were greater than those identified in sub-slab vapor and outdoor air, suggesting that the source of these constituents is inside the building. The ethylbenzene identified in indoor air at location IA-2 may be related to conditions inside and/or below the building.

- Two VOCs were identified in the sub-slab vapor samples at concentrations exceeding the corresponding NYSDOH air guideline values. PCE was detected at a concentration greater than the 100 µg/m^3 NYSDOH air guideline value in each sub-slab vapor sample, except sample SSV-8 (toward the north end of the Simone building complex). TCE was detected at a concentration greater than the 5 µg/m^3 NYSDOH air guideline value in four of the eight sub-slab vapor samples (samples SSV-4, SSV-6, SSV-7, and SSV-8). Detection limits for other VOC constituents were somewhat elevated at all sampling locations except the three northernmost locations. The elevated detection limits were due to the high PCE and TCE concentrations in the samples and limitations in the laboratory analysis. Based on comparison of the sub-slab vapor and indoor air sampling results for PCE and TCE, it is apparent that the 6-inch to 10-inch thick concrete floor slab at the Simone building complex provides significant attenuation to subsurface vapors, and vapor intrusion into the building is minimal or non-existent. The data indicate that the floor cracks and utility pipe penetrations through the floor slab are not a factor in indoor air conditions.

3.3 Findings Compared to the NYSDOH Soil Vapor/Indoor Air Decision Matrices

The TCE and PCE concentrations identified in the sub-slab vapor and indoor air samples were compared to the Soil Vapor/Indoor Air Matrices ("decision matrices") presented in the NYSDOH VI Guidance. As indicated in Subsection 3.4.1 of the NYSDOH VI Guidance, the decision matrices were developed to "provide guidance on a case-by-case basis about actions that should be taken to address current and potential exposures related to soil vapor intrusion." As indicated in Subsection 3.4.2 of the NYSDOH VI Guidance, the decision matrices are "generic" and "it may be appropriate to modify a recommended action to accommodate building-specific conditions" and other factors such as current land use or environmental conditions. The comparisons and interpretations made from use of the matrices are as follows:

- Based on the relative concentrations of TCE in the sub-slab vapor samples and the indoor air samples, Soil Vapor/Indoor Air Matrix 1 suggests potential responses to the collected data ranging from "No Further Action" to "Monitor". Considering site circumstances, TCE was not significantly detected in the indoor air samples, and the concentrations detected in the sub-slab vapor samples are not expected to significantly affect indoor air quality. Furthermore, based on the PID readings obtained inside the tenant spaces, the low TCE concentrations in indoor air samples may primarily be a result of tenant operations as opposed to sub-slab conditions. This information suggests that "no additional actions are needed to address human exposures" (this is the definition of "No Further Action" in both NYSDOH matrices).

- Based on the relative concentrations of PCE in the sub-slab vapor samples and the indoor air samples, Soil Vapor/Indoor Air Matrix 2 suggests potential responses to the collected data ranging from "No Further Action" to "Mitigate". The NYSDOH's definition of "Mitigate" states that "Mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion." The decision matrix identifies potential mitigation methods (sealing preferential pathways, depressurizing the sub-slab, and pressurizing the building interior), but indicates that the "type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions." The suggested actions from Soil Vapor/Indoor Air Matrix 2 are driven primarily by PCE concentrations in sub-slab vapor, without respect to site-specific factors. However, the construction/conditions at this building (i.e., the thick concrete floor slab is in generally good condition, and floor slab penetrations are few and far between) are already effective in limiting or preventing vapor intrusion from

occurring. Furthermore, based on the data collected during the VI investigation, the highest PCE concentration detected in indoor air is 15 times lower than the 100 µg/m^3 NYSDOH air guideline value. Based on the PID readings obtained inside the tenant spaces, these low PCE concentrations in indoor air samples may primarily be a result of tenant operations as opposed to sub-slab conditions. Considering the above information, the sub-slab PCE concentrations are not expected to significantly affect indoor air quality. Accordingly, no additional actions are needed at this time to address PCE concentrations sub-slab or indoors.

4. Conclusions and Recommendations

The validated analytical results for the sub-slab vapor and indoor/outdoor air samples support the conclusions that: (1) there is no confirmed pathway for soil vapor intrusion into the Simone building complex; and (2) the VOCs detected in the indoor samples appear to be tenant-operationally-related and are less than the NYSDOH air guideline values. The low concentrations of VOCs identified in indoor air are primarily related to activities and operational use of various products within the tenant facilities and not as a result of vapor intrusion. The VOC levels identified in indoor air within the buildings are within guidelines for residential settings. Given the acceptable levels identified in indoor air, the significant attenuation provided by the thick concrete floor slab that is in generally good condition, and the commercial occupational uses of the building, Bayer proposes no further action for offsite soil vapor.

Table

TABLE 1
SUB-SLAB SOIL VAPOR, INDOOR AIR, AND OUTDOOR AMBIENT AIR ANALYTICAL RESULTS FOR DETECTED VOCs (µg/m^3)

VAPOR INTRUSION INVESTIGATION SUMMARY
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: / Date Collected:	USEPA 90th Percentile Background Levels Indoor	NYSDOH Air Guideline Value	Sub-Slab Soil Vapor and Indoor Air Analytical Results							
			IA-1 04/28/11	SSV-1 04/28/11	IA-2 04/28/11	SSV-2 04/28/11	IA-3 04/27/11	SSV-3 04/27/11	IA-4 04/27/11	SSV-4 04/27/11
VOCs										
1,2-Dibromoethane	1.5	- -	<0.31	<1.5	<0.31	<110 [<120]	<0.31	<240	<0.31	<38
1,2-Dichlorotetrafluoroethane	- -	- -	<0.28	<1.4	<0.28	<100 [<110]	<0.28	<210	<0.28	<35
3-Chloropropene	- -	- -	<0.25	<1.6	<0.25	<120 [<120]	<0.25	<240	<0.25	<39
Bromoethene	- -	- -	<0.35	<0.87	<0.35	<65 [<70]	<0.35	<130	<0.35	<22
Methyl tert-butyl ether	11.5	- -	<0.14	<0.72	<0.14	<54 [<57]	<0.14	<110	<0.14	<18
1,1,2,2-Tetrachloroethane	- -	- -	<0.27	<1.4	<0.27	<100 [<110]	<0.27	<210	<0.27	<34
1,2-Dichloroethene (total)	- -	- -	<0.16	<0.79	<0.16	<59 [<63]	<0.16	<120	<0.16	<20
1,1,2-Trichloroethane	1.5	- -	<0.22	<1.1	<0.22	<81 [<87]	<0.22	<170	<0.22	<27
1,3,5,- Trimethylbenzene	3.7	- -	<0.39	<0.98	0.87	<73 [<78]	0.70	<150	<0.39	<24
1,1-Dichloroethane	0.7	- -	<0.16	<0.81	<0.16	<60 [<64]	<0.16	<120	<0.16	<20
1,3-Butadiene	3	- -	<0.18	<0.44	0.29	<33 [<35]	0.28	<68	<0.18	<11
1,1-Dichloroethene	1.4	- -	<0.16	<0.79	<0.16	<59 [<63]	<0.16	<120	<0.16	<20
2,2,4-Trimethylpentane	- -	- -	0.35	<0.93	0.44	<69 [<74]	<0.19	<140	0.22	<23
1,2-Dichloroethane	0.9	- -	<0.32	<0.81	<0.32	<60 [<64]	<0.32	<120	<0.32	<20
4-Ethyltoluene	3.6	- -	0.25	<0.98	0.74	<73 [<78]	0.87	<150	<0.20	<24
1,2-Dichloropropane	1.6	- -	<0.37	<0.92	<0.37	<69 [<74]	<0.37	<140	<0.37	<23
Cyclohexane	- -	- -	0.48	<0.69	0.47	<51 [<55]	18 D	<110	0.42	<17
Dichlorodifluoromethane	16.5	- -	2.1	3.4	2.2	<180 [<200]	2.2	<380	2.3	<61
Freon 11	18.1	- -	15	**76**	6.1	<83 [<89]	1.2	<170	1.2	<28
n-Heptane	- -	- -	1.3	<0.82	1.3	<61 [<65]	74 D	<130	1.4	<20
n-Hexane	10.2	- -	0.55	0.71	1.4	<52 [<56]	2.0	<110	0.72	<17
Xylene (m,p)	- -	- -	6.0 J	3.5	33 J	<160 [<170]	7.7 J	<330	1.5 J	<54
Bromodichloromethane	- -	- -	<0.27	<1.3	<0.27	<99 [<110]	<0.27	<210	<0.27	<33
Xylene (o)	7.9	- -	2.3 J	1.1	7.3 J	<64 [<69]	1.9 J	<130	0.56 J	<22
1,1,1-Trichloroethane	20.6	- -	<0.22	<1.1	<0.22	<81 [<87]	<0.22	<170	<0.22	<27
Bromoform	- -	- -	<0.41	<2.1	<0.41	<150 [<160]	<0.41	<320	<0.41	<51
Bromomethane	1.7	- -	<0.31	<0.78	<0.31	<58 [<62]	<0.31	<120	<0.31	<19
Carbon tetrachloride	1.3	- -	0.47	<1.3	0.39	<93 [<100]	0.45	<190	0.40	<31
Benzene	9.4	- -	0.43	<0.64	0.71	<47 [<51]	0.53	<98	0.36	<16
Chloroethane	1.1	- -	<0.21	<1.3	<0.21	<98 [<110]	<0.21	<200	<0.21	<33
Chloroform	1.1	- -	<0.20	<0.98	<0.20	<72 [<78]	<0.20	<150	<0.20	<24
cis-1,2-Dichloroethene	1.9	- -	<0.16	<0.79	<0.16	<59 [<63]	<0.16	<120	<0.16	<20
cis-1,3-Dichloropropene	2.3	- -	<0.18	<0.91	<0.18	<67 [<72]	<0.18	<140	<0.18	<23
Dibromochloromethane	- -	- -	<0.34	<1.7	<0.34	<130 [<140]	<0.34	<260	<0.34	<42
Ethylbenzene	5.7	- -	3.2 J	0.86	**11 J**	<64 [<69]	2.5 J	<130	0.52 J	<22
Tetrachloroethene	15.9	100	0.40	**110**	6.5	**10,000 [10,000]**	0.34	**19,000**	0.63	**3,700**
Methylene chloride	10	60	**24 J**	2.3	<2.8	<130 [<140]	<2.8	<270	<2.8	<43
Toluene	43	- -	15	7.8	12	<56 [<60]	**380 D**	<120	4.0	<19
trans-1,2-Dichloroethene	- -	- -	<0.16	<0.79	<0.16	<59 [<63]	<0.16	<120	<0.16	<20
Trichloroethene	4.2	5	0.25	1.1	0.25	<80 [<86]	<0.21	<160	<0.21	**66**
Vinyl chloride	1.9	- -	<0.20	<0.51	<0.20	<38 [<41]	<0.20	<78	<0.20	<13
Xylenes (total)	22.2	- -	8.3 J	4.5	**40 J**	<64 [<69]	9.6 J	<130	2.0 J	<22
trans-1,3-Dichloropropene	1.3	- -	<0.18	<0.91	<0.18	<67 [<72]	<0.18	<140	<0.18	<23

TABLE 1
SUB-SLAB SOIL VAPOR, INDOOR AIR, AND OUTDOOR AMBIENT AIR ANALYTICAL RESULTS FOR DETECTED VOCs (µg/m^3)

VAPOR INTRUSION INVESTIGATION SUMMARY
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: / Date Collected:	USEPA 90th Percentile Background Levels Indoor	NYSDOH Air Guideline Value	Sub-Slab Soil Vapor and Indoor Air Analytical Results							
			IA-5 04/27/11	SSV-5 04/27/11	IA-6 04/27/11	SSV-6 04/28/11	IA-7 05/05/11	SSV-7 04/28/11	IA-8 05/05/11	SSV-8 04/28/11
VOCs										
1,2-Dibromoethane	1.5	- -	<0.31 [<0.31]	<310	<0.31	R	<0.31	<4.6	<0.31 [<0.31]	<1.5
1,2-Dichlorotetrafluoroethane	- -	- -	<0.28 [<0.28]	<280	<0.28	R	<0.28	<4.2	<0.28 [<0.28]	<1.4
3-Chloropropene	- -	- -	<0.25 [<0.25]	<310	<0.25	R	<0.25	<4.7	<0.25 [<0.25]	<1.6
Bromoethene	- -	- -	<0.35 [<0.35]	<170	<0.35	R	<0.35	<2.6	<0.35 [<0.35]	<0.87
Methyl tert-butyl ether	11.5	- -	<0.14 [<0.14]	<140	<0.14	R	<0.14	**340**	<0.14 [<0.14]	<0.72
1,1,2,2-Tetrachloroethane	- -	- -	<0.27 [<0.27]	<270	<0.27	R	<0.27	<4.1	<0.27 [<0.27]	<1.4
1,2-Dichloroethene (total)	- -	- -	<0.16 [<0.16]	<160	<0.16	R	<0.16	<2.4	<0.16 [<0.16]	<0.79
1,1,2-Trichloroethane	1.5	- -	<0.22 [<0.22]	<220	<0.22	R	<0.22	<3.3	<0.22 [<0.22]	<1.1
1,3,5,- Trimethylbenzene	3.7	- -	0.89 [0.91]	<200	<0.39	R	<0.39	<2.9	0.79 [0.80]	<0.98
1,1-Dichloroethane	0.7	- -	<0.16 [<0.16]	<160	<0.16	R	<0.16	<2.4	<0.16 [<0.16]	<0.81
1,3-Butadiene	3	- -	0.20 [<0.18]	<88	<0.18	R	<0.18	<1.3	<0.18 [<0.18]	<0.44
1,1-Dichloroethene	1.4	- -	<0.16 [<0.16]	<160	<0.16	R	<0.16	<2.4	<0.16 [<0.16]	<0.79
2,2,4-Trimethylpentane	- -	- -	<0.19 [<0.19]	<190	0.68	R	<0.19	<2.8	<0.19 [<0.19]	<0.93
1,2-Dichloroethane	0.9	- -	<0.32 [<0.32]	<160	<0.32	R	<0.32	<2.4	<0.32 [<0.32]	<0.81
4-Ethyltoluene	3.6	- -	1.2 [1.3]	<200	0.33	R	<0.20	<2.9	0.48 [0.33]	<0.98
1,2-Dichloropropane	1.6	- -	<0.37 [<0.37]	<180	<0.37	R	<0.37	<2.8	<0.37 [<0.37]	<0.92
Cyclohexane	- -	- -	13 [14 D]	<140	3.0	3.5 J	0.44	<2.1	2.8 [3.4]	<0.69
Dichlorodifluoromethane	16.5	- -	2.2 [2.3]	<490	2.4	R	2.3	<7.4	2.1 [2.1]	3.2
Freon 11	18.1	- -	1.6 [1.6]	<220	2.0	2.9 J	6.2	15	3.3 [3.5]	8.1
n-Heptane	- -	- -	53 D [63 D]	<160	11	3.4 J	0.44	<2.5	2.3 [2.4]	<0.82
n-Hexane	10.2	- -	2.5 [2.3]	<140	0.92	7.8 J	<0.28	<2.1	0.54 [0.54]	<0.70
Xylene (m,p)	- -	- -	9.2 J [8.9 J]	<430	2.7 J	R	2.2	320	1.6 [1.4]	3.1
Bromodichloromethane	- -	- -	<0.27 [<0.27]	<270	<0.27	R	<0.27	<4.0	<0.27 [<0.27]	<1.3
Xylene (o)	7.9	- -	2.2 J [2.1 J]	<170	0.87 J	R	0.69	**110**	0.53 [0.45]	0.98
1,1,1-Trichloroethane	20.6	- -	<0.22 [<0.22]	<220	<0.22	17 J	<0.22	<3.3	<0.22 [<0.22]	<1.1
Bromoform	- -	- -	<0.41 [<0.41]	<410	<0.41	R	<0.41	<6.2	<0.41 [<0.41]	<2.1
Bromomethane	1.7	- -	<0.31 [<0.31]	<150	<0.31	R	<0.31	<2.3	<0.31 [<0.31]	<0.78
Carbon tetrachloride	1.3	- -	0.45 [0.46]	<250	0.42	R	0.40	<3.8	0.45 [0.40]	<1.3
Benzene	9.4	- -	0.47 [0.45]	<130	0.47	2.6 J	0.34	<1.9	0.27 [0.26]	<0.64
Chloroethane	1.1	- -	<0.21 [<0.21]	<260	<0.21	R	<0.21	<3.9	<0.21 [<0.21]	<1.3
Chloroform	1.1	- -	<0.20 [<0.20]	<190	<0.20	R	<0.20	<2.9	<0.20 [<0.20]	<0.98
cis-1,2-Dichloroethene	1.9	- -	<0.16 [<0.16]	<160	<0.16	R	<0.16	<2.4	<0.16 [<0.16]	<0.79
cis-1,3-Dichloropropene	2.3	- -	<0.18 [<0.18]	<180	<0.18	R	<0.18	<2.7	<0.18 [<0.18]	<0.91
Dibromochloromethane	- -	- -	<0.34 [<0.34]	<340	<0.34	R	<0.34	<5.1	<0.34 [<0.34]	<1.7
Ethylbenzene	5.7	- -	3.0 J [3.0 J]	<170	0.89 J	R	0.66	**130**	0.51 [0.45]	<0.87
Tetrachloroethene	15.9	100	3.1 [3.0]	**32,000**	3.6	**350 J**	0.59	**340**	<0.27 [<0.27]	11
Methylene chloride	10	60	<2.8 [<2.8]	<350	<2.8	R	**30 D**	<5.2	**22 [22]**	3.5
Toluene	43	- -	**270 D [380 EDJ]**	<150	**56 D**	18 J	3.8	**180**	14 D [15]	15
trans-1,2-Dichloroethene	- -	- -	<0.16 [<0.16]	<160	<0.16	R	<0.16	<2.4	<0.16 [<0.16]	<0.79
Trichloroethene	4.2	5	<0.21 [<0.21]	<210	<0.21	**56 J**	<0.21	**37**	<0.21 [<0.21]	**9.1**
Vinyl chloride	1.9	- -	0.44 [0.50]	<100	<0.20	R	<0.20	<1.5	<0.20 [<0.20]	<0.51
Xylenes (total)	22.2	- -	11 J [11 J]	<170	3.6 J	5.1 J	2.9	**430**	2.1 [1.8]	4.1
trans-1,3-Dichloropropene	1.3	- -	<0.18 [<0.18]	<180	<0.18	R	<0.18	<2.7	<0.18 [<0.18]	<0.91

TABLE 1
SUB-SLAB SOIL VAPOR, INDOOR AIR, AND OUTDOOR AMBIENT AIR ANALYTICAL RESULTS FOR DETECTED VOCs (µg/m^3)

VAPOR INTRUSION INVESTIGATION SUMMARY
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: / Date Collected:	USEPA 90th Percentile Background Levels Indoor	NYSDOH Air Guideline Value	Outdoor Ambient Air Analytical Results		
			AMBIENT(042711) 04/27/11	AMBIENT(042811) 04/28/11	AMBIENT(050511) 05/05/11
VOCs					
1,2-Dibromoethane	1.5	- -	<0.31	<0.31	<0.31
1,2-Dichlorotetrafluoroethane	- -	- -	<0.28	<0.28	<0.28
3-Chloropropene	- -	- -	<0.25	<0.25	<0.25
Bromoethene	- -	- -	<0.35	<0.35	<0.35
Methyl tert-butyl ether	11.5	- -	<0.14	<0.14	<0.14
1,1,2,2-Tetrachloroethane	- -	- -	<0.27	<0.27	<0.27
1,2-Dichloroethene (total)	- -	- -	<0.16	<0.16	<0.16
1,1,2-Trichloroethane	1.5	- -	<0.22	<0.22	<0.22
1,3,5,- Trimethylbenzene	3.7	- -	<0.39	<0.39	<0.39
1,1-Dichloroethane	0.7	- -	<0.16	<0.16	<0.16
1,3-Butadiene	3	- -	<0.18	<0.18	<0.18
1,1-Dichloroethene	1.4	- -	<0.16	<0.16	<0.16
2,2,4-Trimethylpentane	- -	- -	<0.19	<0.19	<0.19
1,2-Dichloroethane	0.9	- -	<0.32	<0.32	<0.32
4-Ethyltoluene	3.6	- -	<0.20	<0.20	<0.20
1,2-Dichloropropane	1.6	- -	<0.37	<0.37	<0.37
Cyclohexane	- -	- -	0.17	0.16	<0.14
Dichlorodifluoromethane	16.5	- -	2.3	2.4	2.2
Freon 11	18.1	- -	1.1	1.2	1.1
n-Heptane	- -	- -	0.60	0.64	<0.16
n-Hexane	10.2	- -	0.29	0.48	<0.28
Xylene (m,p)	- -	- -	0.55 J	0.52 J	0.46
Bromodichloromethane	- -	- -	<0.27	<0.27	<0.27
Xylene (o)	7.9	- -	0.18 J	<0.17	0.19
1,1,1-Trichloroethane	20.6	- -	<0.22	<0.22	<0.22
Bromoform	- -	- -	<0.41	<0.41	<0.41
Bromomethane	1.7	- -	<0.31	<0.31	<0.31
Carbon tetrachloride	1.3	- -	0.48	0.48	0.44
Benzene	9.4	- -	0.20	0.20	0.23
Chloroethane	1.1	- -	<0.21	<0.21	<0.21
Chloroform	1.1	- -	<0.20	<0.20	<0.20
cis-1,2-Dichloroethene	1.9	- -	<0.16	<0.16	<0.16
cis-1,3-Dichloropropene	2.3	- -	<0.18	<0.18	<0.18
Dibromochloromethane	- -	- -	<0.34	<0.34	<0.34
Ethylbenzene	5.7	- -	0.23 J	0.21 J	<0.17
Tetrachloroethene	15.9	100	<0.27	0.32	<0.27
Methylene chloride	10	60	<2.8	<2.8	<2.8
Toluene	43	- -	1.8	1.5	0.82
trans-1,2-Dichloroethene	- -	- -	<0.16	<0.16	<0.16
Trichloroethene	4.2	5	<0.21	<0.21	<0.21
Vinyl chloride	1.9	- -	<0.20	<0.20	<0.20
Xylenes (total)	22.2	- -	0.73 J	0.66 J	0.65
trans-1,3-Dichloropropene	1.3	- -	<0.18	<0.18	<0.18

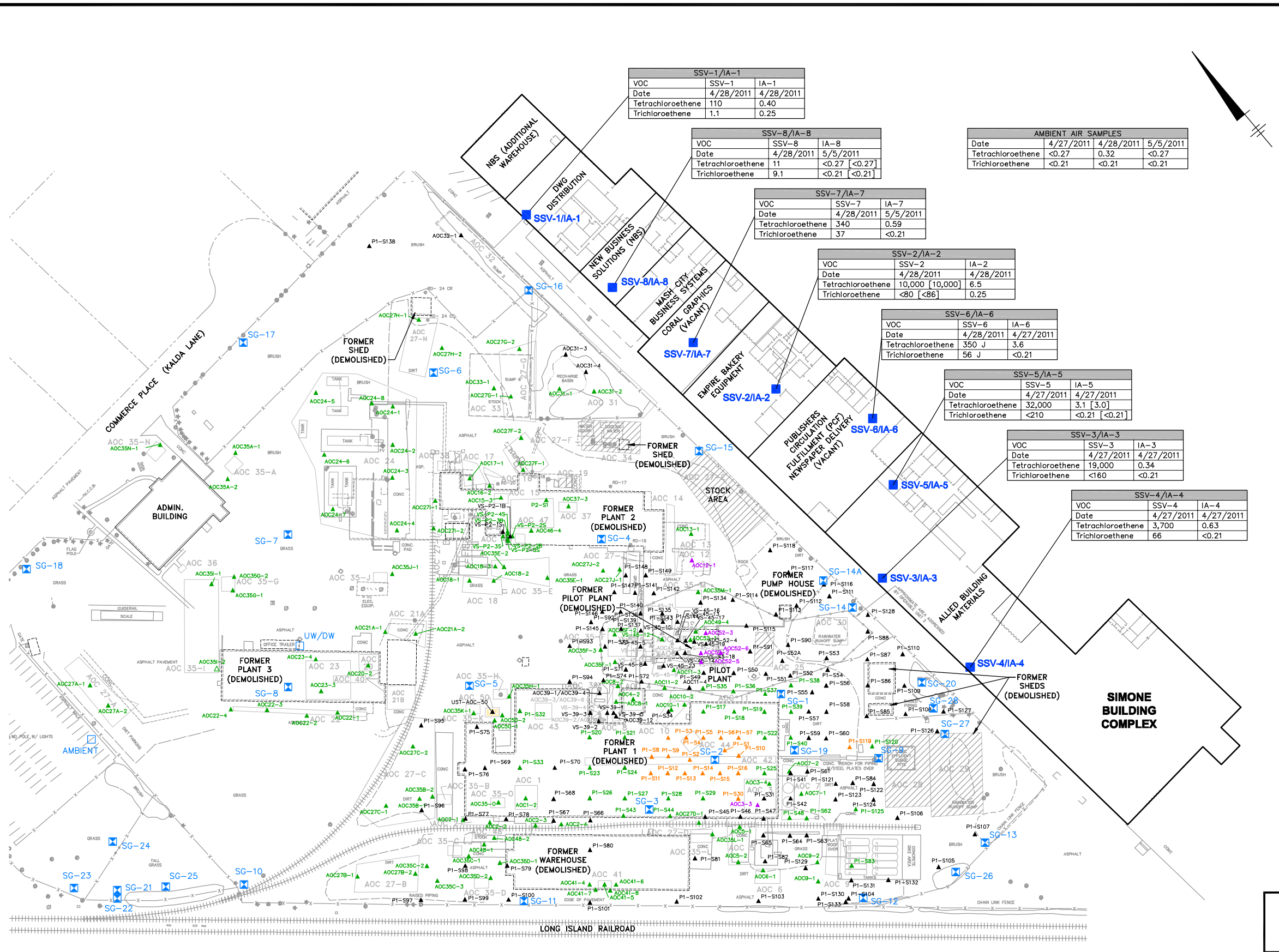
TABLE 1
SUB-SLAB SOIL VAPOR, INDOOR AIR, AND OUTDOOR AMBIENT AIR ANALYTICAL RESULTS FOR DETECTED VOCs (µg/m3)

VAPOR INTRUSION INVESTIGATION SUMMARY
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Notes:

1. Samples were collected by ARCADIS on the dates indicated.
2. Samples were analyzed by TestAmerica, Inc. of Burlington, Vermont using United States Environmental Protection Agency (USEPA) Compendium Method TO-15 (soil vapor and sub-slab soil vapor samples) and USEPA Low-Level Compendium Method TO-15 (indoor air and ambient air samples) for volatile organic compounds (VOCs).
3. Sample designations indicate the following:
   - SSV = sub-slab soil vapor sample.
   - IA = indoor air sample.
   - AA = ambient (outdoor) air sample.
4. Concentrations for VOC constituents are reported in micrograms per cubic meter (µg/m^3).
5. < = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
6. -- = No Available Standard.
7. D = Concentration is based on a diluted sample analysis.
8. J = The associated numerical value is an estimated concentration.
9. R = The sample results are rejected.
10. Field duplicate sample results are presented in brackets.
11. USEPA 90th Percentile Background Indoor Air Levels are the 90th percentile of background indoor air values observed by the United States Environmental Protection Agency (USEPA) in a study of public and commercial office buildings, per USEPA database information referenced in Section 3.2.4 of the"Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (NYSDOH, October 2006) (NYSDOH SVI Guidance Document).
12. NYSDOH Air Guideline Values are from Table 3.1 of the NYSDOH SVI Guidance Document.
13. Shading indicates an exceedence of the NYSDOH Air Guideline Value.
14. Bold font indicates an exceedence of the USEPA 90th Percentile Background Indoor Air Value.
15. The results have been validated.

Figure



LEGEND:

- SUB-SLAB VAPOR AND INDOOR AIR SAMPLING LOCATION (APRIL 2011)
- PREVIOUS TEMPORARY SOIL VAPOR SAMPLING LOCATION
- PREVIOUS AMBIENT AIR SAMPLING LOCATION

COLOR – CODED VOC SOIL ANALYTICAL RESULTS:

- VOC(s) FORMERLY AT A CONCENTRATION >TAGM 4046 SOIL GUIDANCE VALUE (VOC–IMPACTED SOIL WAS REMOVED IN 1999)
- VOCs AT A CONCENTRATION <TAGM 4046 SOIL GUIDANCE VALUE
- ONLY ACETONE AT A CONCENTRATION >TAGM 4046 SOIL GUIDANCE VALUE
- SAMPLING LOCATION WHERE SOIL WAS REMOVED BY ICM EXCAVATION ACTIVITIES PRIOR TO 2009
- SAMPLE NOT SUBMITTED FOR VOC ANALYSIS
- AOC 1 AREA OF CONCERN
- HISTORIC AND CLOSED AOC
- SEPTIC TANK
- LEACHATE PIT

NOTES:

1. BASE MAP ADAPTED FROM A DRAWNG ENTITLED "AREA OF CONCERN MAP", FIGURE 1–2, BY ENSR CORPORATION. PISCATAWAY, NJ, AT A SCALE OF 1"=60', DATED 2/14/03.
2. EXISTING SAMPLING LOCATIONS SG–20, SG–21 AND AMBIENT AIR SAMPLING LOCATIONS ARE APPROXIMATE BASED ON FIELD MEASUREMENTS.
3. THE OTHER EXISTING SAMPLING LOCATIONS SHOWN ON THIS FIGURE WERE SURVEYED BY ARCADIS BETWEEN FEBRUARY 2004 AND JUNE 2008.
4. VOC = VOLATILE ORGANIC COMPOUND.
5. TAGM 4046 = NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION TECHNICAL AND ADMINISTRATIVE GUIDANCE MEMORANDUM (TAGM) TITLED "DETERMINATION OF SOIL CLEANUP OBJECTIVES AND CLEANUP LEVELS", HWR–94–4046 DATED 1994.
6. ICM = INTERIM CORRECTIVE MEASURE.
7. FOOTPRINT OF SIMONE BUILDING COMPLEX OBTAINED FROM NEW YORK STATE GEOGRAPHIC INFORMATION SYSTEMS (NYSGIS) DATABASE. PHOTO DATE: 2007.
8. SAMPLES WERE ANALYZED BY TESTAMERICA LABORATORIES, INC. OF BURLINGTON, VERMONT.
9. SAMPLE COLLECTION/ANALYSIS PERFORMED USING UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA) METHOD TO–15 FOR SUB–SLAB VAPOR SAMPLES AND METHOD TO–15 LOW LEVEL FOR INDOOR AND AMBIENT AIR SAMPLES.
10. CONCENTRATIONS REPORTED IN MICROGRAMS PER CUBIC METER ($\mu g/m^3$).
11. < = COMPOUND WAS NOT DETECTED ABOVE THE REPORTED LABORATORY ANALYTICAL DETECTION LIMIT.
12. FIELD DUPLICATE SAMPLE RESULTS ARE PRESENTED IN BRACKETS.
13. J = THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION.
14. ANALYTICAL RESULTS HAVE BEEN VALIDATED.

BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

VAPOR INTRUSION INVESTIGATION

SUB-SLAB VAPOR AND INDOOR AIR SAMPLING RESULTS FOR PCE & TCE ($\mu g/m^3$)

ARCADIS

FIGURE 1

CITY: SYRACUSE, NY DIV/GROUP: ENV/CADD DB: R. BASSETT, A. SCHILLING, P. LISTER PM: J. BRUSSEL TM/TR: L. HEALY LYR: ON=*; OFF=REF; (FRZ; F=REF, (FRZ)
G:\ENVCAD\SYRACUSE\ACTIVE\B0032305\0004\0000\03\DWG\32305C01.DWG LAYOUT: 1 SAVED: 7/12/2011 1:44 PM ACADVER: 18.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 7/12/2011 1:44 PM BY: JONES, WENDY
XREFS: IMAGES: PROJECTNAME: ----
32305X01 4337_001.jpg
32305X02 4337_002.jpg
4337_003.jpg

Appendices

ARCADIS

Appendix A

Completed New York State Department of Health Indoor Air Quality Questionnaires and Building Inventory Forms

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Daniel Zuck Date/Time Prepared 04/12/2011

Preparer's Affiliation ARCADIS Phone No. (516) 369-2741

Purpose of Investigation VI Investigation

1. OCCUPANT: Allied Building Materials

Interviewed: (Y) / N

Last Name: NA First Name: NA

Address: 1 Enterprise Drive, Hicksville, NY

County: Nassau

Home Phone: NA Office Phone: NA

Number of Occupants/persons at this location 20→ 30 Age of Occupants NA

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: (Y) / N

Last Name: Mejias First Name: Eric

Address: 1250 Waters Place

County: Bronx, NY

Home Phone: (646) 772-1531 Office Phone: (718) 215-3000

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

~~Residential~~	School	(Commercial/Multi-use)
(Industrial)	Church	Other: ___

If the property is residential, type? (Circle appropriate response) NA

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Supplies/Roofing

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? NA

Other characteristics:

Number of floors 1 Building age 1960's

Is the building insulated? Y / (N) How air tight? Tight / Average / (Not Tight)

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

NA

Airflow near source

NA

Outdoor air infiltration

Roll up doors / entry points

Infiltration into air ducts

Reform air only

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	(wood frame)	(concrete)	stone	brick
b. Basement type: NA	full	crawlspace	slab	other _____
c. Basement floor: NA	concrete	dirt	stone	other _____
d. Basement floor: NA	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	(sealed)	sealed with _____	
f. Foundation walls: NA	poured	block	stone	other _____
g. Foundation walls: NA	unsealed	sealed	sealed with _____	
h. The slab is:	wet	damp	(dry)	moldy
i. The basement is: NA	finished	unfinished	partially finished	
j. Sump present?	Y / (N)			
k. Water in sump?	Y / (N)	not applicable		

Basement (None)/Lowest level depth below NA (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

See figures

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

(Hot air circulation)	Heat pump	Hot water baseboard	
(Space Heaters-Gas)	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Electric

Boiler/furnace located in: Basement (Outdoors) Main Floor Other _____

Air conditioning: (Central Air) Window units Open Windows None

Are there air distribution ducts present? (Y) / N – In finished area

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

No model numbers, but ~7 years old @ Allied

7. OCCUPANCY

Is basement/lowest level occupied? (Full-time – 8+ hour workday to 16 double shift) Occasionally Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	Office space / storage
2nd Floor	NA
3rd Floor	NA
4th Floor	NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? (Y) / N Loading Dock ; inside forklifts & roll ups

b. Does the garage have a separate heating unit? (Y) / N / NA in storage area

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) (Y) / N / NA
Please specify Forklift/Bobcat

d. Has the building ever had a fire? Y / (N) When? _____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where? Not to his knowledge

f. Is there a workshop or hobby/craft area? (Y) / N Where & Type? _____

g. Is there smoking in the building? Y / (N) How frequently? No office; yes loading docks

h. Have cleaning products been used recently? (Y) / N When & Type? _____

i. Have cosmetic products been used recently? Y / N When & Type? NA

j. Has painting/staining been done in the last 6 months? Y / (N) Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? (Y) / N When & Type? NA - TBD

m. Is there a kitchen exhaust fan? (Y) / N If yes, where vented? _____

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? _____

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type? TBD

Are there odors in the building? (Y) / N
If yes, please describe: Chemical odor 1296 ppb

Do any of the building occupants use solvents at work? Y / (N) but are sold
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? See inventory sheet

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)* (No)
Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Unknown

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

First Floor:

PLEASE SEE FIGURE 1 FOR GENERAL FLOOR PLANS

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

PLEASE SEE FIGURE 1 FOR THE OUTDOOR PLOTS

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PPB RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
			PLEASE SEE APPENDIX C FOR THE PRODUCT INVENTORY			

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Daniel Zuck Date/Time Prepared 04/13/2011

Preparer's Affiliation ARCADIS Phone No. (516) 369-2741

Purpose of Investigation VI Investigation

1. OCCUPANT: Unoccupied (Previously Coral Graphics)

Interviewed: Y / (N)

Last Name: NA First Name: NA

Address: 1 Enterprise Drive, Hicksville, NY

County: Nassau

Home Phone: NA Office Phone: NA

Number of Occupants/persons at this location NA Age of Occupants NA

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: (Y) / N

Last Name: Mejias First Name: Eric

Address: 1250 Waters Place

County: Bronx, NY

Home Phone: (646) 772-1531 Office Phone: (718) 215-3000

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	(Commercial/Multi-use)
Industrial	Church	Other: ___

If the property is residential, type? (Circle appropriate response) NA

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:

If multiple units, how many? NA

If the property is commercial, type?

Business Type(s) Commercial – Not occupied

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? NA

Other characteristics:

Number of floors 1 Building age 1960's

Is the building insulated? Y / (N) How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

NA

Airflow near source

From roll up doors & entry points

Outdoor air infiltration

Slight

Infiltration into air ducts

No air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type: NA	full	crawlspace	slab	other _____
c. Basement slab: NA	concrete	dirt	stone	other _____
d. Basement floor: NA	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	(sealed)	sealed with _____	
f. Foundation walls: NA	poured	block	stone	other _____
g. Foundation walls: NA	unsealed	sealed	sealed with _____	
h. The slab is:	wet	damp	(dry)	moldy
i. The basement is: NA	finished	unfinished	partially finished	
j. Sump present?	Y / (N)			
k. Water in sump?	Y / N / (not applicable)			

Basement/Lowest level depth below grade: NA (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

See map

*Area occupied is approximately 10,000 square feet (sf)

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
(Space Heaters)	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Yes

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other NA
Air conditioning:	Central Air	(Window units)	Open Windows	None

Are there air distribution ducts present? Y / (N)

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

_____

_____

_____

_____

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom (Almost Never)

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	Storage
2nd Floor	NA
3rd Floor	NA
4th Floor	NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? (Y) / N: (Loading Dock)

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / (N) / NA
Please specify _____

d. Has the building ever had a fire? Y / (N) When? _____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where? _____

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type? _____

g. Is there smoking in the building? Y / (N) How frequently? _____

h. Have cleaning products been used recently? Y / (N) When & Type? _____

i. Have cosmetic products been used recently? Y / (N) When & Type? _____

j. Has painting/staining been done in the last 6 months? (Y) / N Where & When? Painted floors/walls 2 to 3 months

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? _____

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

Are there odors in the building? (Y) / N
If yes, please describe: Paint odor ppb rate 1695

Do any of the building occupants use solvents at work? Y / (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? NA

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)* (No)
Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Unknown

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

NO BASEMENT

First Floor:

PLEASE SEE FIGURE 1 FOR THE FLOOR PLANS

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

PLEASE SEE FIGURE 1 FOR THE OUTDOOR PLOTS

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PPB RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
	PLEASE SEE APPENDIX C FOR THE PRODUCT INVENTORY					

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Pat Prezorski Date/Time Prepared 04/19/2011; 1500

Preparer's Affiliation ARCADIS Phone No. (516) 369-2741

Purpose of Investigation VI Investigation

1. OCCUPANT: DWG Distribution

Interviewed: (Y) / N

Last Name: Visone First Name: Sal

Address: 1 Enterprise Drive, Hicksville, NY

County: Nassau

Home Phone: NA Office Phone: (516) 933-4900 ext 102

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: (Y) / N

Last Name: Mejias First Name: Eric

Address: 1250 Waters Place

County: Bronx, NY

Home Phone: (646) 772-1531 Office Phone: (718) 215-3000

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	(Commercial/Multi-use)
Industrial	Church	Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? NA

If the property is commercial, type?

Business Type(s) DWG Distribution

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

Other characteristics:

Number of floors 1 Building age 1960's

Is the building insulated? (Y) / N How air tight? Tight / (Average) / Not Tight – Not known by Sal

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

NA

Airflow near source

NA

Outdoor air infiltration

Doors / roll ups

Infiltration into air ducts

NA

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	(wood frame)	(concrete)	stone	Brick – No Basement
b. Basement type: NA	full	crawlspace	slab	other _____
c. Basement floor: NA	concrete	dirt	stone	other _____
d. Basement floor: NA	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	(sealed)	sealed with NA	
f. Foundation walls: NA	poured	block	stone	other _____
g. Foundation walls: NA	unsealed	sealed	sealed with _____	
h. The slab is:	wet	damp	(dry)	moldy
i. The basement is: NA	finished	unfinished	partially finished	
j. Sump present?	Y / (N)			
k. Water in sump?	Y / (N)	(not applicable)		

Basement/Lowest level depth below grade: NA (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Cracks & joints; See photos/figures

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

(Hot air circulation)	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Natural Gas / Electric

Boiler/furnace located in: Basement Outdoors (Main Floor – total of 3) Other _____

Air conditioning: (Central Air - HVAC on roof; hoses to interior air vents) Window units Open Windows None

Are there air distribution ducts present? (Y) / N – Ceiling within each room

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

_____

_____

_____

_____

7. OCCUPANCY – No Basement

Is basement/lowest level occupied? Full-time (Occasionally 8 -10 hours) Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	Office space, customer showroom, warehouse
2nd Floor	NA
3rd Floor	NA
4th Floor	NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N – But has loading dock

b. Does the garage have a separate heating unit? Y / N / NA - But storage area does

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / (N) / NA
Please specify _____

d. Has the building ever had a fire? Y / (N) When? _____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where? _____

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type? _____

g. Is there smoking in the building? Y / (N) How frequently? _____

h. Have cleaning products been used recently? (Y) / N When & Type? Floors every 2-weeks – outside person hired

i. Have cosmetic products been used recently? Y / (N) When & Type? _____

j. Has painting/staining been done in the last 6 months? (Y) / N Where & When? 4 months ago & fresh paint every 3 months for touchups

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? (Y) / N When & Type? _____

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? _____

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type?

Are there odors in the building? Y / (N)
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y / (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)* (No) Not commercially but individuals may
Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Unknown

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation:
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply:	(Public Water)	Drilled Well	Driven Well	Dug Well	Other:
Sewage Disposal:	(Public Sewer)	Septic Tank	Leach Field	Dry Well	Other:

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended:

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

NO BASEMENT

First Floor:

PLEASE SEE FIGURE 1 FOR THE FLOOR PLANS

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

PLEASE SEE FIGURE 1 FOR THE OUTDOOR PLOTS

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PPB RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
	PLEASE SEE APPENDIX C FOR THE PRODUCT INVENTORY					

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Daniel Zuck Date/Time Prepared 04/18/2011; 1630

Preparer's Affiliation ARCADIS Phone No. (516) 369-2741

Purpose of Investigation VI Investigation

1. OCCUPANT: Empire Bakery Equipment

Interviewed: (Y) / N

Last Name: Zarate First Name: Claudio

Address: 1 Enterprise Drive, Suite C, Hicksville, NY

County: Nassau

Home Phone: (516) 330-3664 Office Phone: (516) 681-1500

Number of Occupants/persons at this location 10 Age of Occupants 35 to 60

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: (Y) / N

Last Name: Mejias First Name: Eric

Address: 1250 Waters Place

County: Bronx, NY

Home Phone: (646) 772-1531 Office Phone: (718) 215-3000

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

~~Residential~~	School	(Commercial/Multi-use)
(Industrial)	Church	Other: ___

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? NA

If the property is commercial, type?

Business Type(s) Distribute Bakery Equipment

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

Other characteristics:

Number of floors 1 Building age 1960's

Is the building insulated? (Y) / N How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

NA

Airflow near source

NA

Outdoor air infiltration

From roll up doors / exits

Infiltration into air ducts

None / NA

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type: NA	full	crawlspace	slab	other _____
c. Basement floor: NA	concrete	dirt	stone	other _____
d. Basement floor: NA	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	(sealed)	sealed with _____	
f. Foundation walls: NA	poured	block	stone	other _____
g. Foundation walls: NA	unsealed	sealed	sealed with _____	
h. The slab is:	(wet)	(damp)	dry	(moldy)
i. The basement is: NA	finished	unfinished	partially finished	
j. Sump present?	Y / (N)			
k. Water in sump?	Y / (N)	(not applicable)		

Basement/Lowest level depth below grade: NA (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

See figures

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
(Space Heaters)	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
(Electric)	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Above or at location

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning: (Central Air) Window units Open Windows None

Are there air distribution ducts present? (Y) / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

NA, there are return vents

7. OCCUPANCY

Is basement/lowest level occupied? Full-time (Occasionally 8 hours) Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	Only work hours
2nd Floor	NA
3rd Floor	NA
4th Floor	NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? (Y) / N Loading Dock

b. Does the garage have a separate heating unit? Y / (N) / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / (N) / NA
Please specify _____

d. Has the building ever had a fire? Y / (N) When? _____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where? _____

f. Is there a workshop or hobby/craft area? (Y) / N Where & Type? _____

g. Is there smoking in the building? (Y) / N How frequently? _____

h. Have cleaning products been used recently? (Y) / N When & Type? _____

i. Have cosmetic products been used recently? Y / N When & Type? NA

j. Has painting/staining been done in the last 6 months? Y / (N) Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? (Y) / N When & Type? _____

m. Is there a kitchen exhaust fan? (Y) / N If yes, where vented? _____

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? _____

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? (Y) / N When & Type? past month

Are there odors in the building? (Y) / N
If yes, please describe: mildew / paint

Do any of the building occupants use solvents at work? (Y) / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? See photos & inventory with MSDS

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)* No (Yes) - Personally
Yes, use dry-cleaning infrequently (monthly or less) Yes, work Unknown
at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: 1 / 6 months
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

NO BASEMENT

First Floor:

PLEASE SEE FIGURE 1 FOR THE FLOOR PLANS

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

PLEASE SEE FIGURE 1 FOR THE OUTDOOR PLOTS

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PPB RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
	PLEASE SEE APPENDIX C FOR THE PRODUCT INVENTORY					

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Daniel Zuck Date/Time Prepared 04/20/2011

Preparer's Affiliation ARCADIS Phone No. (516) 369-2741

Purpose of Investigation VI Investigation

1. OCCUPANT: Mash City Business Systems

Interviewed: (Y) / N

Last Name: Giordan First Name: John

Address: 1 Enterprise Drive, Suite E, Hicksville, NY

County: Nassau

Home Phone: (516) 647-0075 Office Phone: (516) 437-2062

Number of Occupants/persons at this location 25 Age of Occupants 22 to 70+

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: (Y) / N

Last Name: Mejias First Name: Eric

Address: 1250 Waters Place

County: Bronx, NY

Home Phone: (646) 772-1531 Office Phone: (718) 215-3000

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

~~Residential~~	School	(Commercial/Multi-use)
(Industrial)	Church	Other: ___

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Printer / Copier Repair

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? NA

Other characteristics:

Number of floors 1 Building age 1960's

Is the building insulated? (Y) / N How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

NA

Airflow near source

NA

Outdoor air infiltration

From roll up doors / entry points

Infiltration into air ducts

NA, insulated

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	(wood frame)	(concrete)	stone	brick
b. Basement type: NA	full	crawlspace	slab	other _____
c. Basement floor: NA	concrete	dirt	stone	other _____
d. Basement floor: NA	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	(sealed)	sealed with _____	
f. Foundation walls: NA	poured	block	stone	other _____
g. Foundation walls: NA	unsealed	sealed	sealed with _____	
h. The slab is:	wet	damp	(dry)	moldy
i. The basement is: NA	finished	unfinished	partially finished	
j. Sump present?	Y / (N)			
k. Water in sump?	Y / N / (not applicable)			

Basement/Lowest level depth below grade: NA (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Cracks if applicable, see photos

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

(Hot air circulation)	Heat pump	Hot water baseboard	
(Space Heaters)	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Electric

Boiler/furnace located in: Basement (Outdoors – Above Roof) Main Floor Other _____

Air conditioning: (Central Air – Finished only) Window units Open Windows None

Are there air distribution ducts present? (Y) / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Vents and Return available only to view

7. OCCUPANCY

Is basement/lowest level occupied? Full-time (Occasionally 8 – 10 hours Admin & Service) Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	Office Area / Maintenance shed
2nd Floor	NA
3rd Floor	NA
4th Floor	NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? (Y) / N (Loading Dock / Door)

b. Does the garage have a separate heating unit? (Y) / N / NA (Loading Dock & Office Area)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / (N) / NA
Please specify _____

d. Has the building ever had a fire? Y / (N) When? _____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where? _____

f. Is there a workshop or hobby/craft area? (Y) / N Where & Type? See Figure

g. Is there smoking in the building? Y / (N) How frequently? _____

h. Have cleaning products been used recently? (Y) / N When & Type? _____

i. Have cosmetic products been used recently? Y / N When & Type? NA

j. Has painting/staining been done in the last 6 months? (Y) / N Where & When? Rebuilt 9 months ago

k. Is there new carpet, drapes or other textiles? (Y) / N Where & When? _____

l. Have air fresheners been used recently? (Y) / N When & Type? _____

m. Is there a kitchen exhaust fan? Y / N If yes, where vented? _____

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? _____

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? (Y) / N When & Type? ~ 1 month ago

Are there odors in the building? (Y) / N
If yes, please describe: In maintenance area

Do any of the building occupants use solvents at work? (Y) / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? See inventory

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)* *(Company no, personally yes.)
Yes, use dry-cleaning infrequently (monthly or less) Yes, work No
at a dry-cleaning service Unknown

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

NO BASEMENT

First Floor:

PLEASE SEE FIGURE 1 FOR THE FLOOR PLANS

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

PLEASE SEE FIGURE 1 FOR THE OUTDOOR PLOTS

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PPB RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
	PLEASE SEE APPENDIX C FOR THE PRODUCT INVENTORY					

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Daniel Zuck Date/Time Prepared 04/13/2011

Preparer's Affiliation ARCADIS Phone No. (516) 369-2741

Purpose of Investigation VI Investigation

1. OCCUPANT: NBS Design & Manufacturing

Interviewed: (Y) / N

Last Name: Rup First Name: John

Address: 1 Enterprise Drive, Hicksville, NY

County: Nassau

Home Phone: (516) 932-1600 Office Phone: (715) 608-5085

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: (Y) / N

Last Name: Mejias First Name: Eric

Address: 1250 Waters Place

County: Bronx, NY

Home Phone: (646) 772-1531 Office Phone: (718) 215-3000

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

~~Residential~~	School	(Commercial/Multi-use)
(Industrial)	Church	Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? 1

If the property is commercial, type?

Business Type(s) Manufacturing

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? NA

Other characteristics:

Number of floors 1 Building age 1960's

Is the building insulated? (Y) / N How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

NA

Airflow near source

NA

Outdoor air infiltration

From roll up doors / entry points

Infiltration into air ducts

NA

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type: NA	full	crawlspace	slab	other _____
c. Basement floor: NA	concrete	dirt	stone	other _____
d. Basement floor: NA	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	(sealed)	sealed with _____	
f. Foundation walls: NA	poured	block	stone	other _____
g. Foundation walls: NA	unsealed	sealed	sealed with _____	
h. The slab is:	wet	damp	(dry)	moldy
i. The basement is: NA	finished	unfinished	partially finished	
j. Sump present?	Y / (N)			
k. Water in sump?	Y / N / (not applicable)			

Basement/Lowest level depth below grade: NA (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Cracks and joints

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
(Space Heaters)	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Electric

Boiler/furnace located in: Basement Outdoors (Main Floor) Other _____

Air conditioning: (Central Air) Window units Open Windows None

Are there air distribution ducts present? (Y) / N – In finished area

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

NA (on roof)

7. OCCUPANCY

Is basement/lowest level occupied? Full-time (Occasionally 8 – 12 hours max) Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	Manufacturing & work area
2nd Floor	NA
3rd Floor	NA
4th Floor	NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? (Y) / N (Loading Dock)

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / (N) / NA
Please specify Propane forklift

d. Has the building ever had a fire? Y / (N) When? _____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where? _____

f. Is there a workshop or hobby/craft area? (Y) / N Where & Type? _____

g. Is there smoking in the building? Y / (N) How frequently? _____

h. Have cleaning products been used recently? (Y) / N When & Type? _____

i. Have cosmetic products been used recently? Y / (N) When & Type? _____

j. Has painting/staining been done in the last 6 months? (Y) / N Where & When? on products

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? (Y) / N When & Type? _____

m. Is there a kitchen exhaust fan? (Y) / N If yes, where vented? _____

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? _____

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

Are there odors in the building? (Y) / N
If yes, please describe: Paint / plastics

Do any of the building occupants use solvents at work? (Y) / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? See product inventory

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)*	No
Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service	Unknown

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply:	(Public Water)	Drilled Well	Driven Well	Dug Well	Other: _____
Sewage Disposal:	(Public Sewer)	Septic Tank	Leach Field	Dry Well	Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

NO BASEMENT

First Floor:

PLEASE SEE FIGURE 1 FOR THE FLOOR PLANS

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

PLEASE SEE FIGURE 1 FOR THE OUTDOOR PLOTS

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PPB RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
	PLEASE SEE APPENDIX C FOR THE PRODUCT INVENTORY					

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Daniel Zuck Date/Time Prepared 04/13/2011; 1010

Preparer's Affiliation ARCADIS Phone No. (516) 369-2741

Purpose of Investigation VI Investigation

1. OCCUPANT: Unoccupied (Previously Publishers Circulation Fulfillment [PCF])

Interviewed: Y / (N)

Last Name: NA First Name: NA

Address: 1 Enterprise Drive, Hicksville, NY

County: Nassau

Home Phone: NA Office Phone: NA

Number of Occupants/persons at this location NA Age of Occupants NA

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: (Y) / N

Last Name: Mejias First Name: Eric

Address: 1250 Waters Place

County: Bronx, NY

Home Phone: (646) 772-1531 Office Phone: (718) 215-3000

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential School (Commercial/Multi-use)
Industrial Church Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? 1

If the property is commercial, type?

Business Type(s) Newspaper Distributor

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? NA

Other characteristics:

Number of floors 1 Building age 5-7 years updated

Is the building insulated? (Y) / N – (Exterior) How air tight? Tight / Average / (Not Tight)

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

NA

Airflow near source

Low movement, no active heater/AC in store room; constant air flow in insulated area

Outdoor air infiltration

Some roll up doors and entry doors

Infiltration into air ducts

Circulation interior

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type: NA	full	crawlspace	slab	other _____
c. Basement slab:	concrete	dirt	stone	other _____
d. Basement floor: NA	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	sealed	sealed with _____	
f. Foundation walls: NA	poured	block	stone	other _____
g. Foundation walls: NA	unsealed	sealed	sealed with _____	
h. The slab is:	wet	damp	dry	moldy
i. The basement is: NA	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: 0 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

See site figure

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation – in storage area	Heat pump	Hot water baseboard
Space Heaters	Stream radiation	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler
Other _____		

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Electric

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? (Y) / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

On roof

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	Shipping and receiving
2nd Floor	NA
3rd Floor	NA
4th Floor	NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? (Y) / N / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / (N) / NA
Please specify _____

d. Has the building ever had a fire? Y / (N) When? _____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where? _____

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type? _____

g. Is there smoking in the building? Y / (N) How frequently? _____

h. Have cleaning products been used recently? (Y) / N When & Type? See inventory

i. Have cosmetic products been used recently? Y / (N) When & Type? _____

j. Has painting/staining been done in the last 6 months? Y / (N) Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? _____

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

Are there odors in the building? Y / (N)
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y / (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? NA

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)* (No)
Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service [Unknown]

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

NO BASEMENT

First Floor:

PLEASE SEE FIGURE 1 FOR THE FLOOR PLANS

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

PLEASE SEE FIGURE 1 FOR THE OUTDOOR PLOTS

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PPB RAE

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
	PLEASE SEE APPENDIX C FOR THE PRODUCT INVENTORY					

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

ARCADIS

Appendix B

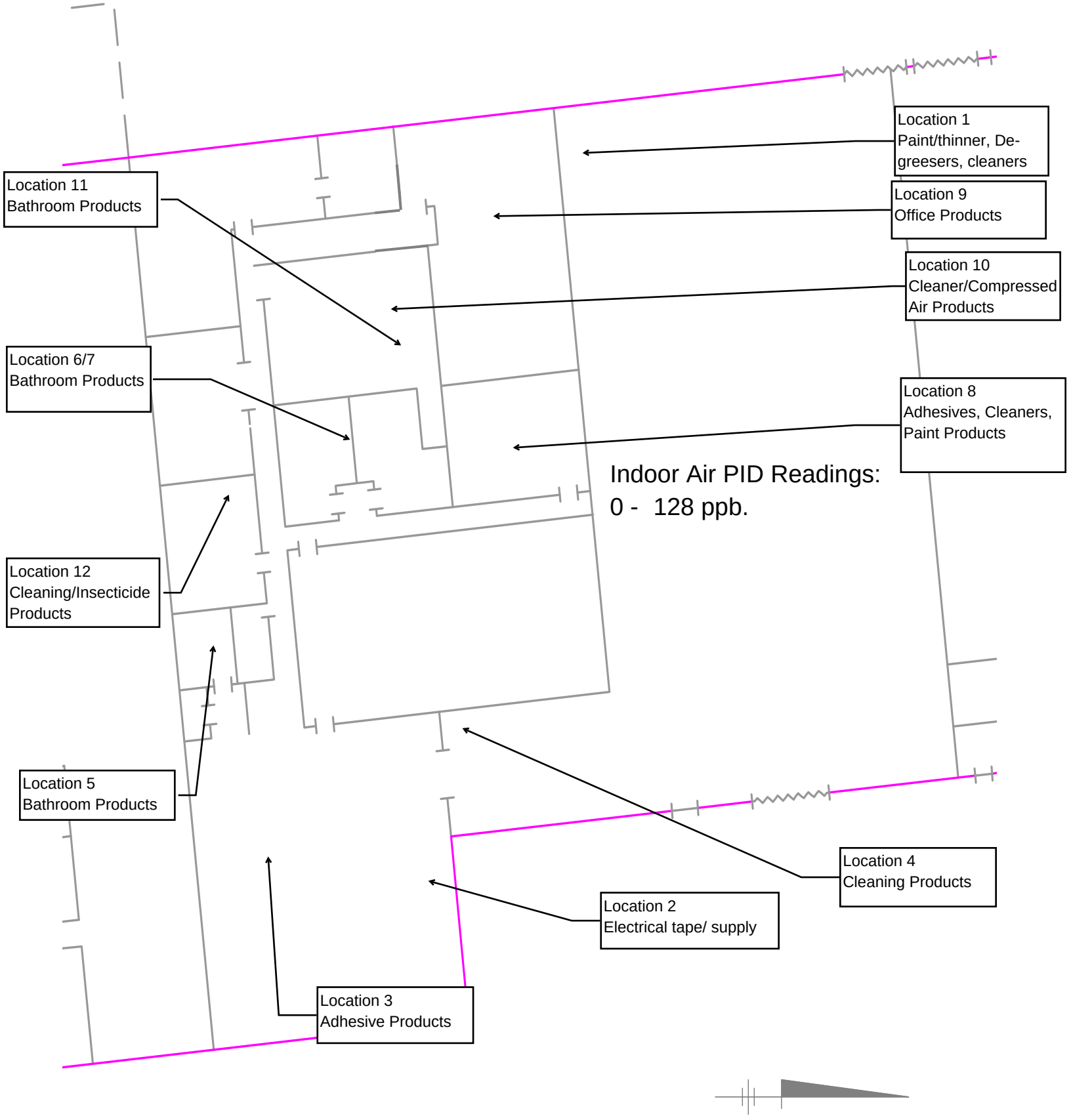
Building Layouts and Field Observations

Appendix B
Building Layouts and Field Observations

NBS Warehouse Area

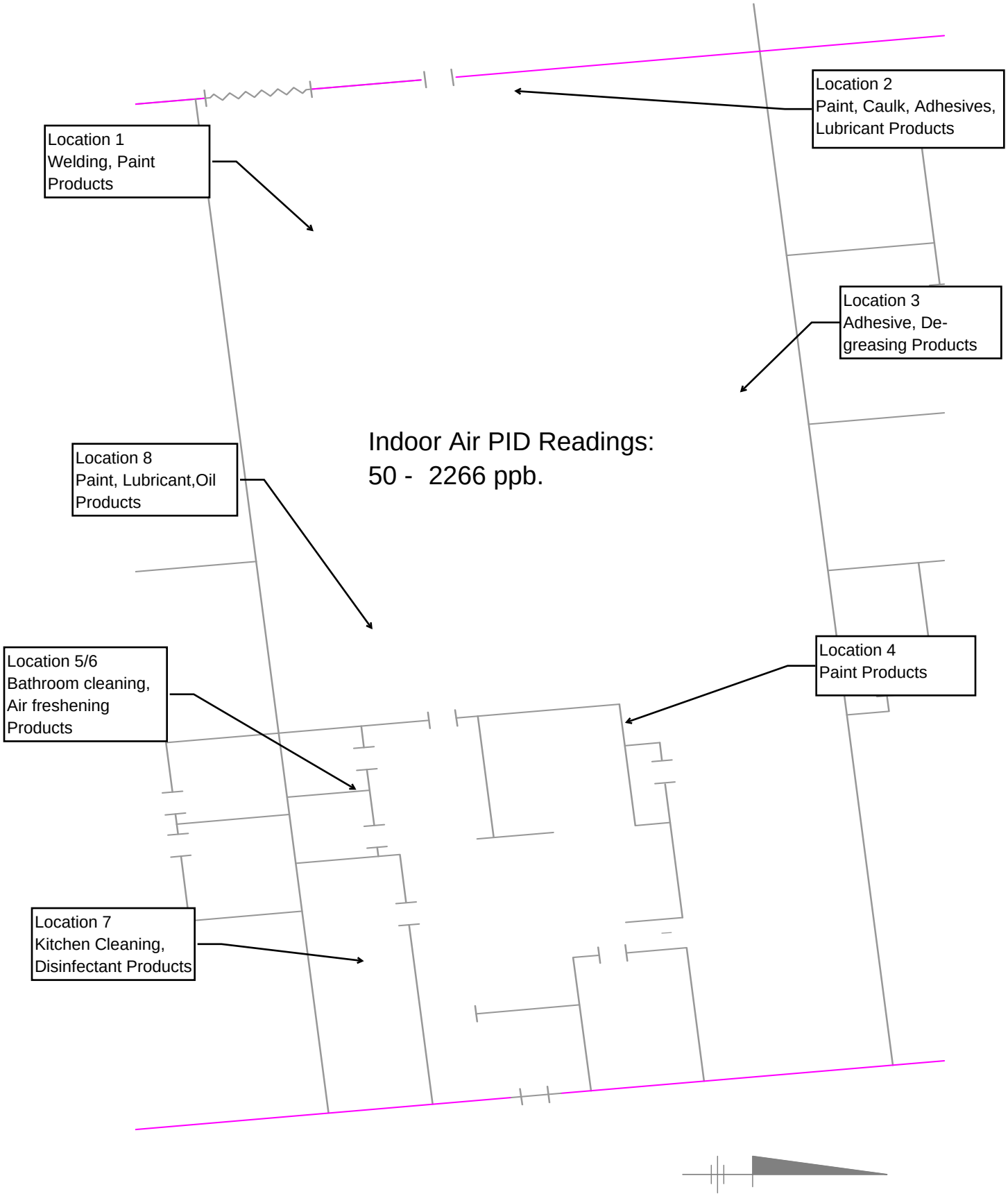
Appendix B
Building Layouts and Field Observations

DWG Office/Warehouse Area



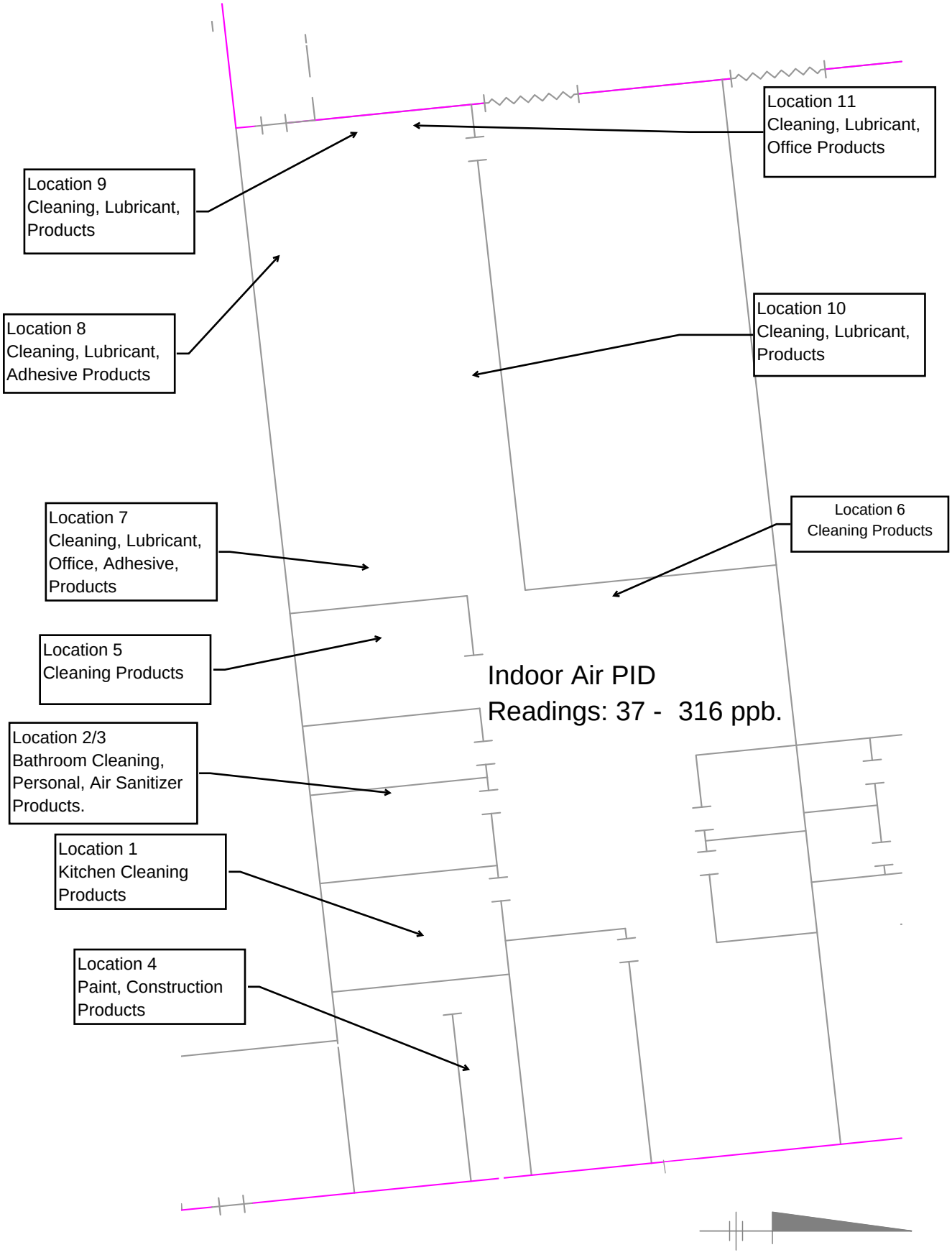
Appendix B
Building Layouts and Field Observations

NBS Office/Warehouse Area



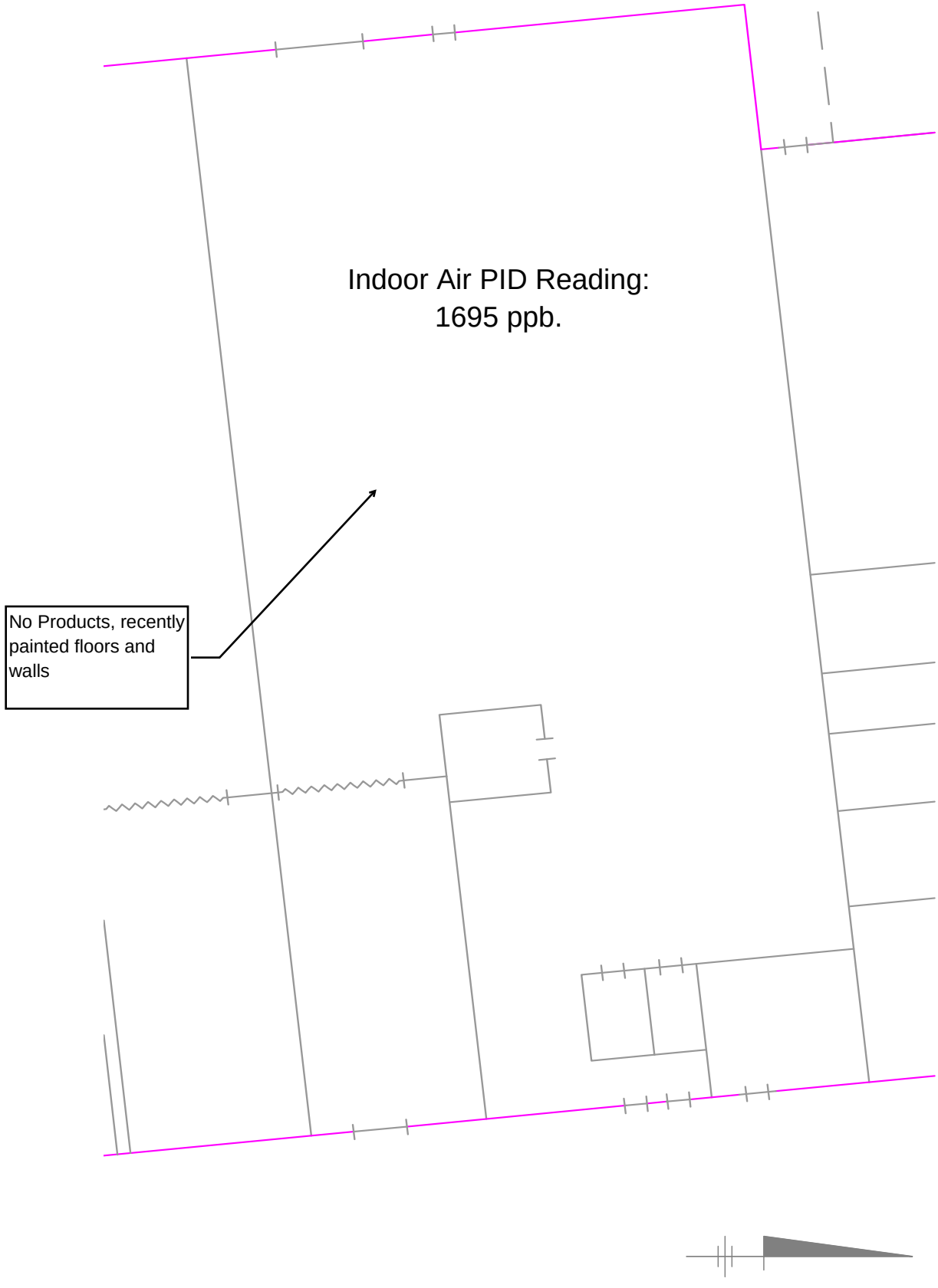
Appendix B
Building Layouts and Field Observations

Mash City Office/Warehouse Area



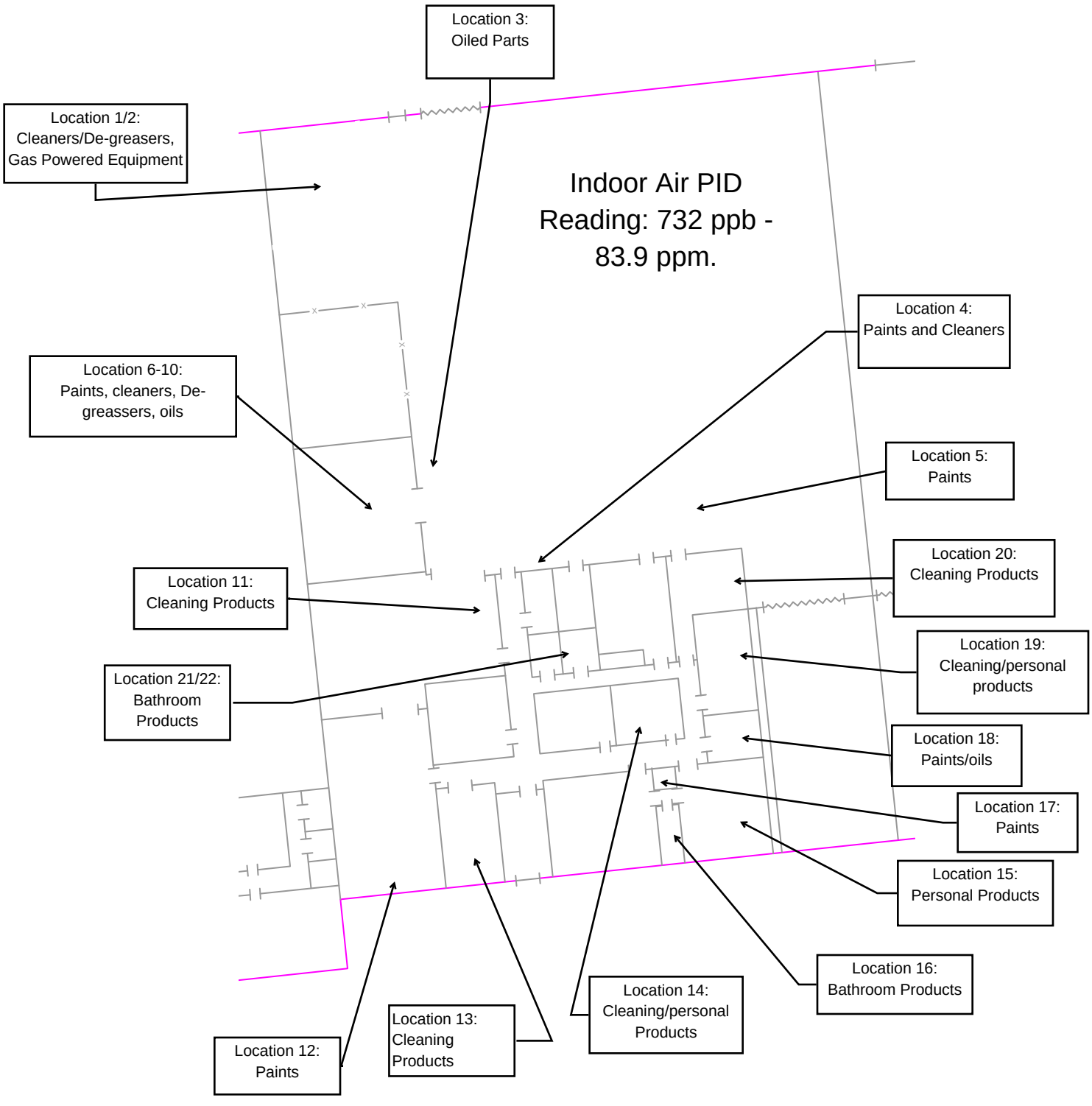
Appendix B
Building Layouts and Field Observations

Coral Graphics Warehouse Area



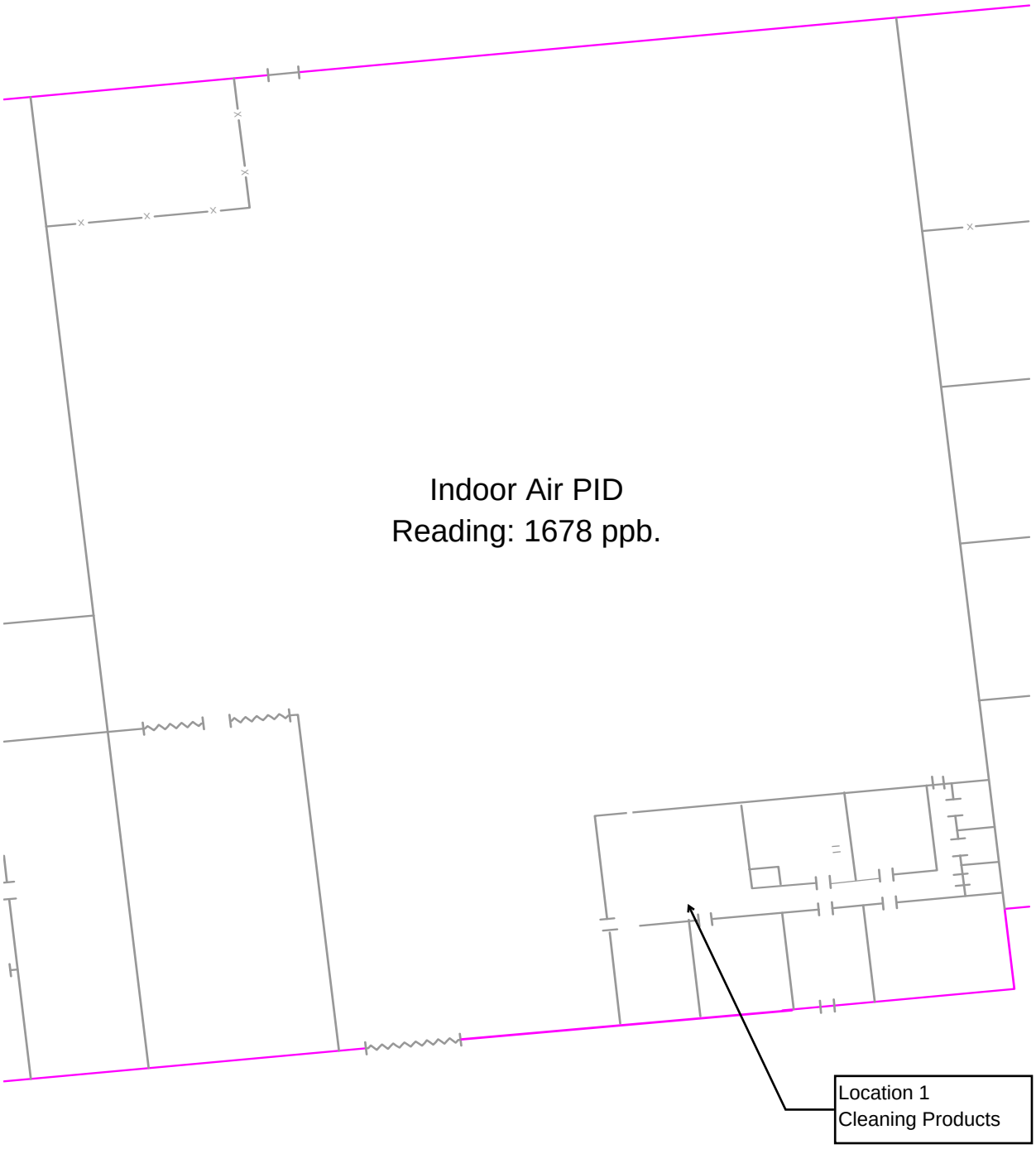
Appendix B
Building Layouts and Field Observations

Empire Bakery Equipment



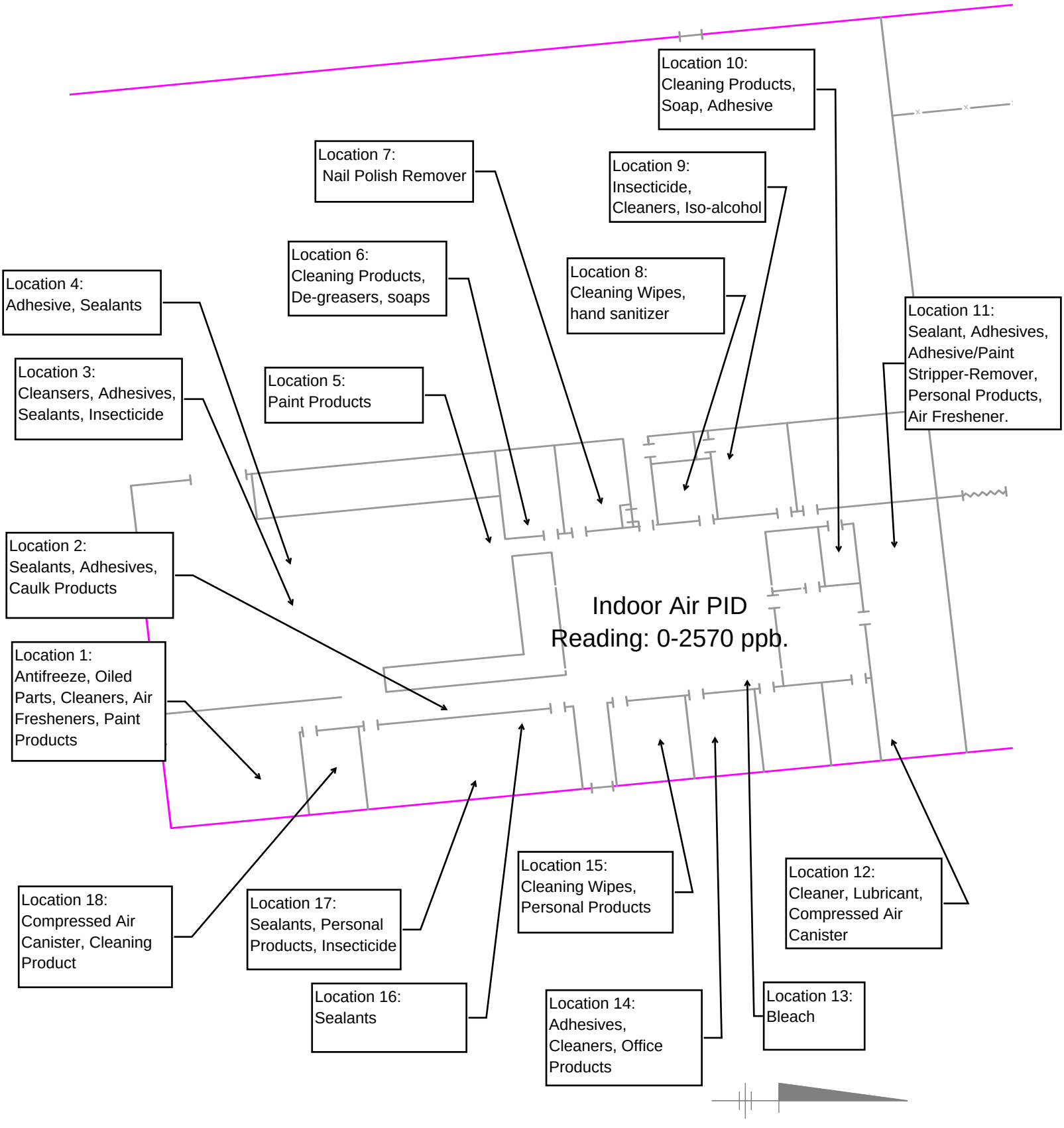
Appendix B
Building Layouts and Field Observations

PCF Warehouse Area



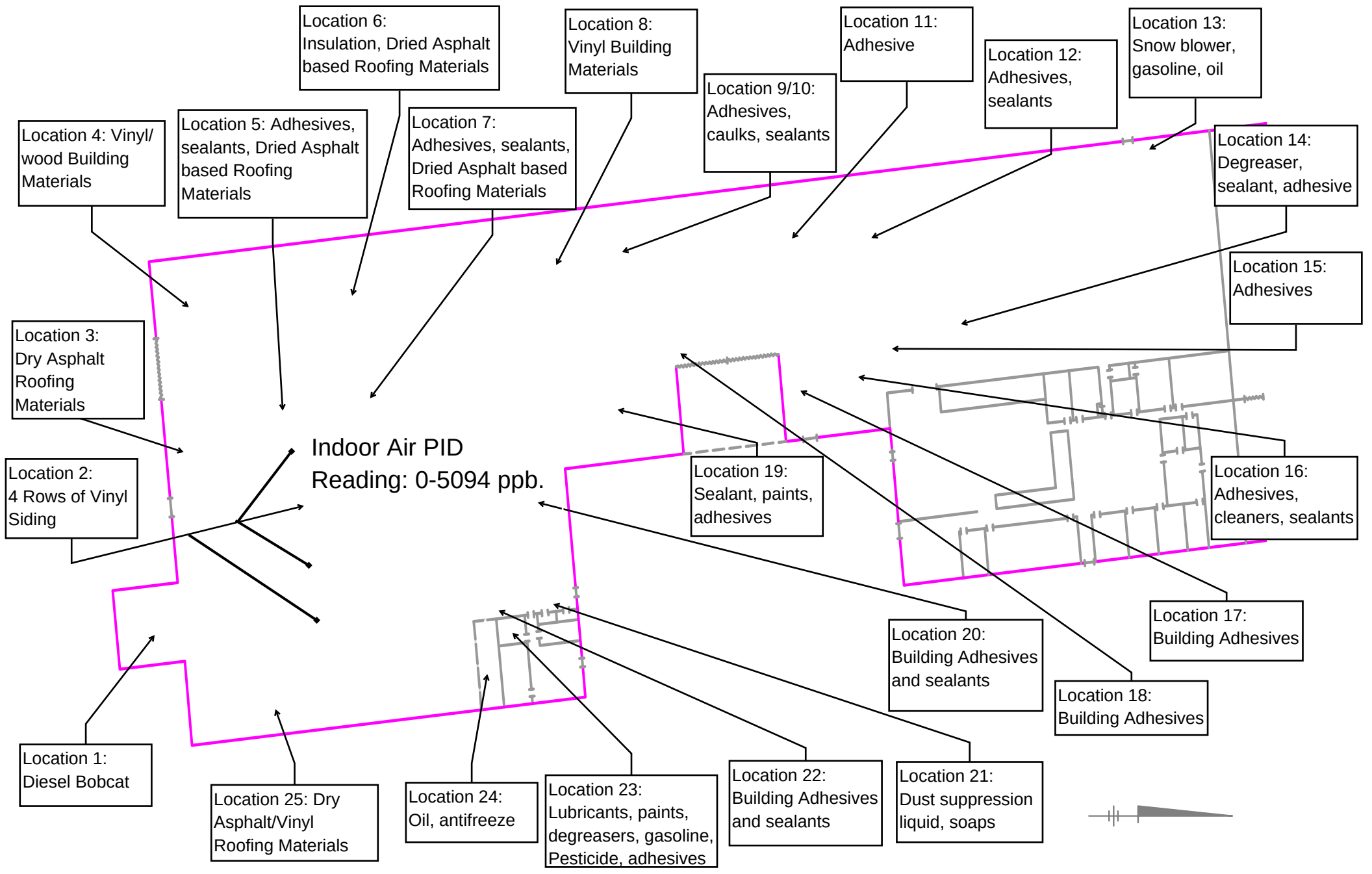
Appendix B
Building Layouts and Field Observations

Allied Office Area



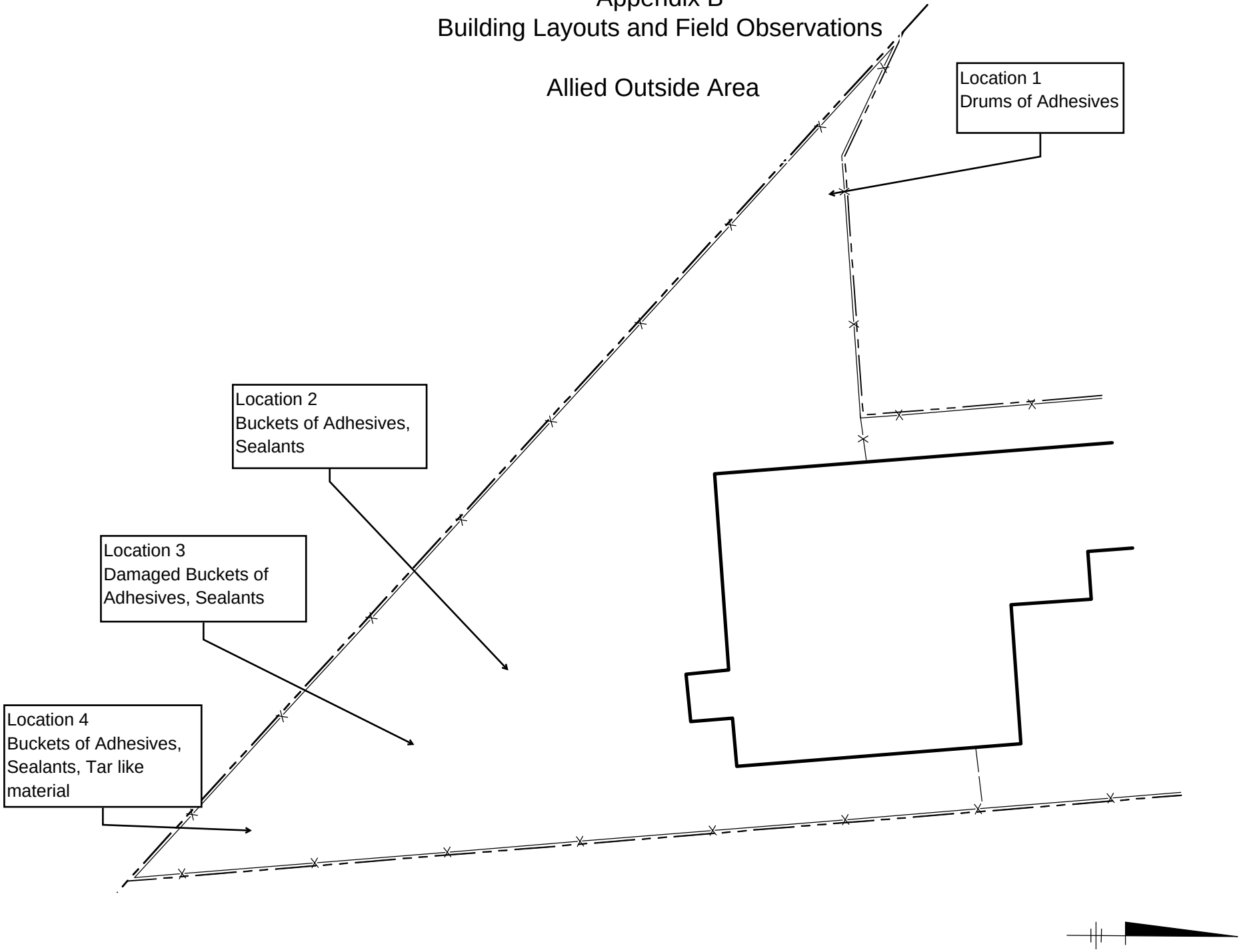
Appendix B
Building Layouts and Field Observations

Allied Warehouse Area



Appendix B
Building Layouts and Field Observations

Allied Outside Area



ARCADIS

Appendix C

Building Product Inventory Tables

APPENDIX C - ALLIED BUILDING MATERIALS (OFFICE AREA)
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location #	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
Allied Office Area							
1	ProLine Anti-Freeze Extended Life	1 gal	274	UO	See photos	1434	723/724
	Oiled/Greased Parts			OP	See photo		725
	Clorox Disinfectant Wipes	35 Wipes	One (1)	OP	See photos		726/727
	Time Mist Air Freshener	5.3 oz	One (1)	OP	See photos		728/729
	Dust Off Duster XL	10 oz	One (1)	OP	See photos		730/731
	Prestone Extended Life Anti-Freeze	1 gal	One (1)	OP	See ohotos		732/733
	Air Brake System by Gunk, Anti-Freeze & Rust Guard	32 oz	One (1)	OP	See photos		734/735
	Glass & Window Cleaner by System Clean	18.5	One (1)	OP	See photos	1601	736/737
	Rustoleum Inverted Stripping Paint	18 oz	One (1)	UO	See photos	1626	738/739
	Gold Bond Hand Lotion	14 oz	One (1)	OP	See photos		740/742
	Lens Wipes	1 wipe	Multiple	UO	See photo		743
	Tilex Mold & Mildew	32 oz	One (1)	OP	See photos	1614	744/745
2	OSI Micro Gutter Prem Sealer	10.2 oz	Multiple	UO	See photos	1758	704/707/708
	Mason Bond, The Evolution of Mortar	10.3 oz	Multiple	UO	See photos		705/706
	PL 400 by Loctite	10 oz	Multiple	UO	See photos		709/710
	OSI Quad		Multiple	UO	See previous logs		711/712
	SCS 1000		Multiple	UO	See previous logs		
	Loctite PL Premium		Multiple	UO	See previous logs		
	Sikaflex 15LM		Multiple	UO	See previous logs		
	Sonolastic SC1		Multiple	UO	See previous logs		
	Roof Xtender Ultimate 100	10.1 oz	Multiple	UO	See photo logs		713/714
	Tri Built Wet Surface Roof Cement	10.3 oz	Multiple	UO	See photo logs		715/716
	Bond Fill for Painters Caulk	10.1 oz	Multiple	UO	See photos		717/718
	Phenoseal Vinyl Adhesive Caulk	10 oz	Multiple	UO	See photos		719/720
	Henry: 925 BES Sealant	10.3 oz	One (1)	UO	See photos	1740	721/722
3	Tri Built Quick Dry Asphalt Primer	17 oz	Multiple	UO	See photos	1662	682/683
	WD-40	8 oz	Multiple	UO	See photo & printed log	1600	682
	Great Stuff Pro: Gaps & Cracks	24 oz	Multiple	UO	See photos	1559	684/686
	Great Stuff Pro: Gun Cleaner	12 oz	Multiple	UO	See photos	1657	684/685
	Permatex Hand Cleaner	14 oz	Multiple	UO	See photos	1657	687/689
	Spray Nine	32 oz	Multiple	UO	See photos	1668	690/691
	Hornet & Wasp Spray 862 by Utility Mates	15 oz	Multiple	UO	See photo	1695	692
	Karnak Karna Klean	1 L	Multiple	UO	See previous photos	1692	692
	Enforcer Wasp & Yellow Jacket Foam	16 oz	Multiple	UO	See photos	1691	693/695
	Eldorado Stove Craft Shield	1 gal	Multiple	UO	See photos	1593	696/697
4	Tamko TwoFlash Wrap		Multiple	UO	See photo	1286	676
	Multiple Flash Products						
	EternaBond EternaPrime	1 qt	Multiple	UO	See photos		677/678
	Roof Xtender "Various Types" 500, 300, 200, 100	5 gal	Multiple	UO	See photos & previous notes	1738	679
	QuickSeal 7	2.5 gal	Multiple	UO	See photos & previous notes	1944	679
	Roofing Display		Multiple	OP	See photo	1534	680
	Karnak: #19	1 gal	Two (2)	UO	See photo & previous photos		681
	Clean Brake	8 wipes	Multiple	UO	NA	1588	681
5	GAF ELK Shingle Match Accessory Paint	12 oz	Multiple	UO	See photos	1740	698/700
	Tri Built Professional Grade Roof Accessory Paint	12 oz	Multiple	UO	See photos		701/702
	Krylon Rust Tough Enamel	12 oz	Multiple	UO	See photos	1758	701/703
6	Somerset Pink Hand Soap	1 gal	Two (2)	OP	See photos	1993	825/826
	Enrich Hand Soap	1 gal	One (1)	OP	See photo/NA		827
	Bartenders Helper	15 oz	One (1)	OP	See photos		828/829
	Scotts Liquid Gold Wood Cleaner	12 oz	One (1)	OP	See photo		830
	Great Value Anti-Spray Disinfectant	18 oz	One (1)	OP	See photos		831/832
	Zenex Zena Sheen SS Polish	14 oz	One (1)	OP	See photos		833/834
	Zenex Neutrazen	7.25 oz	One (1)	OP	See photos		835/836/837
	Glade Carpet Room Powder	32 oz	One (1)	OP	See photo		838
	Goof Off AFTA Adhesive Remover	32 oz	One (1)	OP	See photos		839/840
	Karna Klean				See previous		841
	Pure Bright Disinfectant Bleach	1 gal	One (1)	OP	See photos		842/843
	Soft Scrub w/Bleach	36 oz	One (1)	OP	See photos		844/845
	Comet w/Bleach	14 oz	One (1)	OP	See photos		846/847
	Pledge Natural Beauty				See previous		
	Franklin Hi-Genic Cleaner	32 oz	Two (2)	OP	See photos	2068	849

APPENDIX C - ALLIED BUILDING MATERIALS (OFFICE AREA)
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location #	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
Allied Office Area							
7	Cutex Nail Polish Remover	6 oz	One (1)	OP	See photos	2570	823/824
8	Clorox Wipes				See previous	2181	813
	Dust Off				See previous		813
	Lucky Super Soft Hand Sanitizer	8 oz	One (1)	OP	See photos		814/815
	Awesome Orange	16 oz	One (1)	OP	See photos		816/817
	Lysol Disinfectant Spray	19 oz	One (1)	OP	See photos		818/819
	Germ-X	72 cloths	One (1)	OP	See photos		820/821
9	Pic Wasp & Hornet Killer II	13.5 oz	One (1)	OP	See photos	1677	801/802
	Raid Ant	17.5 oz	One (1)	OP	See photos		803/804
	Walgreens Isopropyl Alcohol 70%	16 oz	One (1)	OP	See photo		805
	Brillo Steel Wool	10 pads	One (1)	OP	See photo		806
	Ajax Dish Soap Orange	34 oz	One (1)	OP	See photos		807/808
	Lysol Disinfecting Wipes	20.3 oz	Two (2)	OP	See photos		809/810
	Clorox Wipes	75 wipes			See previous		811/812
10	Clorox Wipes	75 wipes	One (1)	UO	See photo	1532	795
	Pledge Natural Beauty	12.7	Two (2)	UO	See photo		796
	Dustoff XL				See previous		797
	3M Super 77 Adhesive	16.75	One (1)	UO	See photos		798/799
	Soap Dispenser Soap	~0.5	One (1)	UO	See photo		800
11	WD-40	8 oz	One (1)	OP	See photo log	1730	788
	CCW-703-V Liquiseal "A"	1 gal	Two (2)	UO	See photo	1700	789
	CCW-703-V Liquiseal "B"	1 pint	Two (2)	OP/UO	See photos	1700	790/791
	Febreeze	27 oz	One (1)	OP	See photo	1715	792
	CVS Special Care Hand Lotion	17.7 oz	One (1)	OP	See photos	1718	793/794
	Henry: 925 Sealant	~250 mL	One (1)	UO	See previous	1689	778/779
	Strippers S-303		~3	NA	See photo		780
	R97 Federal Store Products	~250 mL	One (1)	NA	See photo		781
	Strippers S-301	~500 mL	One (1)	NA	See photo		782
	Silin Silith White	~250 mL	2 to 4?	NA	See photo		783
	Mason Graffiti Remover, Federal Store Products	~100 mL	One (1)	NA	See photo		784
	SureKlean Marble Pool Tile	~500 mL	1 to 2	UO	See photo		785
	SureKlean Limestone & Masonry Sealer	1 L	One (1)	UO	See photo		786
12	Spray Nine				See previous	1693	787
	Pledge Clean & Dust	125	One (1)	OP	See photo/NA	1729	788
13	Clorox Bleach	1.42 gal	One (1)	OP	See photos	1666	775/777
14	Lucas #6500 Universal Flashing Cement	~1 qt	One (1)	UO	See Photo	1740	768
	Dust Off XL				See previous photos	1706	768
	Perma Dri	1 qt	One (1)	UO	"No VOCs" See photos		768/769
	Expo Markers	---	Multiple	OP	See photo	1691	771
	Mason RE Heavy Duty Latex Cleaner	~ 1 pt	One (1)	NA	See photos	1694	772/773
15	Clorox Disinfectant Wipes	78 wipes	One (1)	OP	See photos	1702	762/763/764
	Jergens Ultra Healing Lotion	21 oz	One (1)	OP	See photos	1709	766/767
16	Lucas Universal Sealant	10 oz	One (1)	UO	See photos	1711	757/758/759
	Geocel 4500 Roofing Sealant	10 oz	Multiple	UO	See photos	1683	760/761
17	Geocel 2315 LRF Leak Repair	1 pt	Multiple	UO	See photos	2389	747/748
	CUS Hand Sanitizer	8 oz	One (1)	OP	See photos	1693	749/750
	Lucas Universal Flashing Cement	~1 qt	One (1)	UO	See photo / NA	2077	751
	Geocel 4515 Sealant	2 L	Four (4)	UO	See photos	1697	752/753
	Hot Shot Flying Insect Killer	14 oz	One (1)	OP	See photos	1670	754/755
	Kemperol Cold Activator	1 L	Multiple	UO	See photo	1690	756
18	Spray Nine				See previous photos	1744	746
	Dust Off				See previous photos		

Notes:

1. '-- = No photographs available.
2. Photoionization detector (PID) readings (i.e., approximate total organic vapor concentrations) were obtained using a ppbRAE.
3. ppb = parts per billion.
4. qt = quart
5. gal = gallon
6. oz = ounce
7. mL = milliliter
8. fl oz = fluid ounce
9. L = liter
10. pt = pint
11. kg = kilogram

APPENDIX C - ALLIED BUILDING MATERIALS (OUTSIDE AREA)
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
HICKSVILLE, NY

Location	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
Allied							
Outside Warehouse							
1	Carlisle FAST 100lv A&B Polyurethane Adhesive	4 pallets	15 gal / 55 gal	New	See Photos	0	5,6,7,8,1016
2	Tri Built: Asphalt primer	4.75 gal	Multiple	UO	See photo	--	1018,516,517
	Tri Built: Flashing Roof Cement	4.75 gal	Multiple	UO	See photo	--	1018,518,519
	Karnak: 19 Ultra Flashing Cement	4.75 gal	Multiple	UO	See photo	--	1018,520,522
	Karnak: 19 Flashing Cement	4.75 gal	Multiple	UO	See photos	--	1018,529,530
3	Various opened/damaged buckets of adhesives, sealants (Identified: Henry 525 Elastic Roof sealer)	5 gal	Multiple	OP	NA	--	1096,1097, 1098
4	BASF Thorolastic	5 gal	Multiple	UO	NA	--	1019
	Senergy Finish: Senerflex Fine	70 lbs/5 gal	Multiple	UO	See photos	--	1019,599,600
	Broken Tar like material	Bags	Multiple	OP	NA	--	1020

Notes:
1. '-- = No data available.
2. Photoionization detector (PID) readings (i.e., approximate total organic vapor concentrations) were obtained using a ppbRAE.
3. Photos 500-600 are referenced from the Allied warehouse inventory.
4. ppb = parts per billion.
5. gal = gallon

APPENDIX C - ALLIED BUILDING MATERIALS (WAREHOUSE AREA)
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
HICKSVILLE, NY

Location	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
Allied Warehouse Area							
1	Diesel Powered Bobcat	NA	1	NA		NA	---
2	SureSeal AFX Plus by Carlisle 105 Mil Fleeceback AFX Plus	Rolls		New		46	---
	Carlisle Sure Seal Fleeceback 11.5 Mil	Roll		New		51	---
	10'26' Tamrail Straight Railing Kit by Tamko			New		42	---
	Triple 3 1/3" Solid Soffit & Vertical Siding			New	Vinyl		---
	CertainTeed Monogram Double 4" Rough Cedar Finish			New	Cedar		---
	A1 Sheets w/sheets			New		0	---
	CertainTeed Siding			New	Vinyl		---
	CertainTeed Shingles			New			---
	Main Street Woodgrain Clapboard			New			---
	Fabric Rolls					388	
	Tam-Rail Post-Sleeve Kits						
	Building Materials (Metal & Wood) Trim material					407	
	Starter Strips for Shaker Shingles					341	
	CertainTeed Siding Monogram Cedar					341	
	Siding (Woodgrain clapboard) Cedar					356	
	CertainTeed Vinyl Siding					347	
	Wolverine Wood Planks						
	Vinyl Siding Wolverine & CertainTeed					343	
	Siding					350	
3	Timbertex Shingles	30 shingles	15 pallets	New/UO	Not listed	155	435
	Shingle Ridge by CertainTeed			All shingles, new	No chemicals listed		434
	CertainTeed: Shadow Ridge						
	Owens Coring: Hip & Ridge AR						
	GAF ELK: Seal-A-Ridge						
	GAF ELK: Pro Start						
4	Weather Watch by GAF ELK: Mineral Surfaced Leak Barrier	Roll	~50 pallets				436
	GAF ELK: Cobra Exhaust Vent Tri Built Asphalt Roofing Felt Shingle made by GAF ELK			New	NA (no liquids)	63	437
	Plywood (various)						440/441
5	Henry 120 Premium Non	4.75 ??	One (1)	1: damaged	Petroleum Distrate; Asphalt; Aluminum Metal; Aromatic Petroleum Distillate	11	450
	MBR Flashing Cement Activator	1.3 L	Three (3)	UO	MDI: Polymeric Dipher (See Photo #39)	9	445/446
	MBR Bonding Adhesive Base	4.4 gal	Five (5)	UO	Petroleum Asphalt - "No VOCs"	20	447/448
	Pro-Grade Asphalt Primer #113	4.75	14	UO/dented	Petroleum Distillate Asphalt	21	451/452
	Henry 906 Flash Master Plus	4.75	Five (5)	Damaged	NA (no liquids)	20	449
	Henry III Insulbond	5 gal	12	UO	Batonde clay, water, petroleum oil, asphalt, GBX latex	0	453/454
	MBR Utility Cement	5 gal	24	UO	Asphalt, mineral spirits	0	456/457
	Pro-Grade: Silver Kote, Fibered Aluminum Roof Coating #800	4.75	36	UO	Asphalt, petroleum distillate, aluminum metal, synthetic fibers, aluminum silicate	9	460/462
	Firestone: Multi-Purpose MB Flashing Cement	4.75	16	UO	Stoddard solvent, asphalt, cellulose, attaulgite clay, aromatic petroleum distillate	9	464/465
	MBR Cold Application Adhesive	4.75	42	UO	NA Complies w/CA VOC Regs.		467
6	Foam Insulation: No Name					0	442
	Wrapping cellophane: No Name						

APPENDIX C - ALLIED BUILDING MATERIALS (WAREHOUSE AREA)
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
HICKSVILLE, NY

Location	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
Allied Warehouse Area							
7	Appex 4.5 M Roll	NA	25	UO	NA		468
	Roof Xtender: Premium White Acrylic 700	4.7	36	UO	Titanium dioxide, calcium carbonate, ethylene clycol, zinc oxide		470/471
	Roof Xtender: White Elastromeric 500 Solvent	4.7 gal	36	UO	Water, latex polymer, titanium calcium carbonate, mineral spirits	0	472/473
	Henry Flashmaster 505, flashing cement	4.75	45	UO	Calcium carbonate, cidy, petroleum dist, asphalt, cellulose	0	474/476
	Henry MB Gold Medal 554 flashing cement	4.75	36	UO	Asphalt, petroleum distillate, synthetic rubber, attupulgite clay, cellulose, calcium carbonate		478/479/483
	Dyna Cap Granules	5gal	13	UO	Kaolin dacity prophyry, titanium oxide, iron oxide, carbon black chromium oxide, silica	0	485,486
	Roof Xtender: Rubberized ultimate flashing cement 100	4.7	36	UO	NA		489
	App 180: Firestone asphalt roll	NA	41	UO	NA		490
	MOP Granule asphalt roll	NA	5	UO	NA		491
	Henry Premium non-fibered aluminum roof paint 120	4.7	25	UO	Aluminum metal, petroleum distillate, asphalt, aromatic petroleum distillate	54	492/493
	Roof Xtender: Premium Thermo Plastic SB roof coating 900	4.7	Three (3)	UO			494/499
	Appex 4.5 M Roll	Roll	10	UO	NA (see above)		NA
	Roof Xtender 500	4.7	12	UO	See above		NA
	Roof Xtender: roof Seal SB 200	4.7		UO	Petroleum asphalt, mineral spirits, cellulose fiber, inorganic filler	0	500/501
	Ruberoid Asphalt Roll	Roll	Multiple	UO	See photo/NA		502
	Torch smooth	Roll	Multiple	UO	See photo/NA		503
	Tri Built: Mod. Bituman Adhesive-brush grade	4.75	Multiple	UO	See photo		504/505
	GAF: Gaf Glas #75	Roll	Multiple	UO	See photo		506
	Tri Built: Mod. Bituman Adhesive-trowel grade	4.75	Multiple	UO	See photo		507/508
	Karnak 169 Asphalt/aluminum coating	5 gal	Multiple	UO	See photo		509/510
	Firestone MB Base Asphalt Roll	Roll	Multiple	UO	See photo		511
	SBS Cap Roll	Roll	Multiple	UO	See photo	38	512
	Tri Built: Non-fibered roof coating aluminum	4.75 gal	Multiple	UO	See photo		513/515
	Tri Built: Asphalt primer	4.75 gal	Multiple	UO	See photo		516/517
	Tri Built: Flashing Roof Cement	4.75 gal	Multiple	UO	See photo	0	518/519
	Karnak: 19 Ultra Flashing Cement	4.75 gal	Multiple	UO	See photo		520/522
	Karnak: 229 AR Elastomer Rulers Asphalt	4.75 gal	Multiple	UO	See photo		523/524
	Karnak: 111 Quick Dry Asphalt Primer	4.75 gal	Multiple	UO/Damaged	See photo	441	525/526
	Karnak: 102 Asphalt Primer	4.75 gal	Multiple	UO	See photos	0	527/528
	Karnak: 19 Flashing Cement	4.75 gal	Multiple	UO	See photos		529/530
	Karnak: 86-AF Trowel Mastic	4.75 gal	Multiple	UO	See photos		531/532
	Karnak: 155-AF Amphibikote	4.75 gal	Multiple	UO	See photos	0	533/534
	Henry: MBA 553 Elastomeric	4.75 gal	One (1)	UO	See photos		535/536
	Karnak: Fiber Emulsion 220	4.75 gal	Multiple	UO	See photos		537/538
	Tri Built: Fibered Aluminum Exterior Coating	4.75 gal	Multiple	UO/1 opened	See photos	591	539/541
8	CertainTeed: Cedar Impressions Straight Edge Shingles					10	443

APPENDIX C - ALLIED BUILDING MATERIALS (WAREHOUSE AREA)
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
HICKSVILLE, NY

Location	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
Allied Warehouse Area							
9	GE: SLS1000 Calcate/Adhesive	10.1 oz	Multiple	UO	See photos	0	543,544
	OMG OlyBond 500 Adhesive	1.5 L	Multiple	UO	See photos		545,547
	Sonolastic SL-1 Sealant/Adhesive	.825 L	Multiple	UO	See photo		548
	Karnak: 19 Flashing Cement	10.1 oz	Multiple	UO	See photos		550/549/555
	Henry: 570-O5 Sealing Compound	24 oz	Multiple	UO	See photos		551,552
	Karnak:#19	0.9 Gal	Multiple	UO	See photos		553,554
10	ISO Quad Sealant	10.2 oz	Multiple	New	See photos	36	556/557
	ISO Quad "pro Source" Sealant	10.2 oz	Multiple	UO/Damaged	See photos	48	558/559
	Loctite PL Premium Adhesive	10 oz	Multiple	UO	See photos	9	560/561
	Loctite PL 400	10 oz	Multiple	UO	See photos	0	562/564
	Sashco: Tough roof Caulk	10.5 oz	Multiple	UO	See photos		565/566
	FSO SBR-100 Caulk	10.5 oz	Multiple	UO	See photos		567/568
	Sikaflex 15LM Sealant	10.1 oz	Multiple	UO	See photos	192	569/570
11	Carlisle: Flexible fast polyurethane adhesive	50 gal	One (1)	UO	See photos	0	571/572
12	PSI: Topsfield EST (CAL) Tint White Base	4.75 gal	Multiple	UO	See photos	205	574
	PSI B-TUFF 921 Side-B	5 gal	Multiple	UO	See photo	140	575
	PSI P-TUFF Classic Solvent Free	5 gal	Multiple	UO	See photo	0	576
	QuickSeal 7 Cage Code:04771	20 lbs	Multiple	UO	See photo	0	577
	Primer 733 by BASF	1 pint	Multiple	UO	See photos	30	580/581/582
	PSI B-TUFF 921 Side A	1/2 gal	Multiple	UO	See photos	290	583, 584
	PSI PTS E10154	28 oz	Multiple	UO	See photo	10	585
	PSI EnviroGrip EP#1 Part A	2 gal	Multiple	UO	See photo	60	587
	PSI EnviroGrip EP#1 Part B	1 gal	Multiple	UO	See photo	54	588/589
	PSI Chocolate Pigment Paste for Topshield	1 quart	Multiple	UO	See photo	0	590/591
	NP1 by Sonolastic Sealant	10.1 oz	Multiple	UO	See photos	210	594/595
	MBR Cold Application Adhesive	5 gal	Multiple	UO	See photos	0	597/598
	Sashco Tough Roof				See previous photo		
	Senergy Finish: Senerflex Fine clear	70 lbs/5 gal	Multiple	UO	See photos	0	599/600
13	Snow Blower	28"	Two (2)	Used	Gasoline/Oil	85	596
14	Karnak: Asphalt & Tar Remover	1 L	Multiple	UO	See photos	20	602/603
	Senergy Base Coat: Alpha Base Coat	60 lbs	Multiple Pallets	UO	See photos	0	604
15	Sure-Seal Adhesive 90-8-30A	5 gal	26 pallets	UO?	See photos	124	605/606
	Versico Roofing Systems Versiweld TPO Bonding Adhesive	! 5 gal	Multiple Pallets	UO?	See photos	228	607/608
	Oly Bond 500	1.5 L	Multiple	UO	See photo	10	609
16	Carlisle EP-95 Splicing Cement	1 gal	1 pallet	New		3342	80,82
	Carlisle HP-250 Primer	1 gal	2 pallets	New		2893	83,85
	Versico Yellow Substrate Adhesive	5 gal bucket	1 pallet	New		2800	88,89,121
	FAST Adhesive	?	1/2 pallet	New	on upper shelf	2812	92
	Splice Adhesive	1 gal	1/2 pallet	New		2600	93,97
	Leather Membrane Cleaner	5 gal	1 pallet	New			98,99,100,101,102
	FAST Duct Cartridge Adhesive by Carlisle (temp 25-50°)	1.5 L sets	4 per box - 1 box set	New	Not listed	2618	103,104,105
	FAST Duct Cartridge Adhesive by Carlisle (temp 50°)	1.5 L sets	1 box set	New		2589	106,107
	Carlisle Water Cut-Off Mastic	10-11 fl oz	13	New		2844	109,110
	One Part Pourable Cedar by ChemTree (Black)	4-21 L pouches per bucket	1 pallet	New		3057	112
	Carlisle Sureseal: Elastoform Flashing		1 box	New	Box is sealed	2995	113
	Carlisle Sureseal Black Cap Sealant	25-11 oz per box	1 pallet	New		3253	114,120
	Versico Yellow Substrate Adhesive	5 gal	3 pallets	New		2885	121
	FAST Bag in a box Adhesive low rise polyurethane adhesive resin Part 2B		1/2 pallet	New	on upper shelf	2744	126,127,128
	Carlisle In Seam Sealant	11 oz cartridge	1 box of cartridges	New		2689	122,123
	Carlisle Oly Bond 500 BA-Part B	5 gal	1 box	New	Box is sealed	2794	124,125
	Versico Dual Cartridge Adhesive	1.5 L sets with count of 4	1 box	New	Ingredients not listed	2408	129,130
	Rolls of Flashing			New		2634	
	White One-Part Pourable Sealer	5 gal	1/2 pallet	New		2629	133,134
	Carlisle Cut Edge Sealant	8-16 oz	5 boxes	New		2557	135,136
	SureSeal Secure Tape			New			---
	Universal Single Ply Sealant	24-10.1 oz	1/2 pallet	New		2610	137,139
	Versico G-300 K Black	11 oz	7 boxes	New		2808	140,141
	Carlisle CCW-702 coating water proofing	5 gal	1 pallet	New		2612	142,143
	Versico G-500 CM Water cut-off mastic	11 oz	25	New		2688	144,145
	Versico G-400 PS-2 Pourable Sealer	1 pint	3 + 1 pallet	New		2989	146,147,148

APPENDIX C - ALLIED BUILDING MATERIALS (WAREHOUSE AREA)
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
HICKSVILLE, NY

Location	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
Allied Warehouse Area							
16 (cont'd	AquaBase 120 Bonding Adhesive	5 gal bucket	1 pallet	New		2465	149,150,151
	Carlisle Cold Applied	5 gal bucket	1 pallet	New		2591	152
	Moulded Sealed Packets, PureSeals by TPO					3546	---
	Pressure Sensitive Rugs (TPO)	Rolls				2867	---
	In-Seam Sealant	11 fl oz 10 per box	4 boxes	New	1 open box	2482	153
	Versico V-350 Seam Sealant		1 box	New		2525	154,155
	FAST Adhesive by Carlisle		1 box	New		2446	156,157
	Versigard Quick Applied Reinforced Stripper			New		2561	---
	Versigard QA Uncured Flashing			New		2561	---
	Versigard Pipe Sealer			New		2561	---
	Versigard Seam Tape			New		2561	---
	Versigard Reinforced Termination Strips			New		2563	---
	TPO Primer	1 gal	One (1)	New		3674	159,160
	LV-600 Primer			New		3674	162,163
	Carlisle SureSeal Cured Cover Trap			New		2699	---
	Carlisle SureSeal Elastoform Plastic			New		2695	---
	Carlisle Pressure Sensitive Rues			New		2695	---
	Carlisle Overlayment Strip			New		2695	---
	Carlisle Lush Flashing			New		2687	---
	Versico V-150 Primer	1 gal	1/2 pallet	New		2782	164
	Oly 500 Spot Shot Adhesive Fastener	1 gal	1/2 pallet	New		2912	165,168
	Carlisle Sure White Lap Sealant			New	Naphta VM&R titanium oxide	2810	169,180
	Dewitts Siding Cleaner [Near Rollup Door of Warehouse]	1 gal	1	Good (Sprayer on top of drum)			181,182,183, 52, 53
17	Nails & Fasteners			New		2955	
	Carlisle B-500 Waterbased Bonding	5 gal bucket	1 pallet	New		2912	66,67
	AquaBase 120 Bonding Adhesive	Bucket		New		3285	70,71,72,73, 74
	Simonic Work & Shine	5 gal bucket	One (1)		label smeared	3042	75,76
18	Senergy	70 lb bucket	2 pallets	New	Not listed	2359	59,60,61
19	Colortrend KX 888	1 gal	Seven (7)	New		1963	11,14,15
	Colortrend AXX	32 fl oz	16	New		2070	16,17(2)
	Colortrend V	32 fl oz	13	New		2070	18,19(2)
	Colortrend L	32 fl oz	One (1)	New		2070	20(2), 22
	Colortrend E	32 fl oz	10	New		2108	23,25
	Colortrend D	32 fl oz	12	New		2108	26,27,29(2)
	Colortrend F	32 fl oz	Three (3)	New		2108	30(2),31,32
	Colortrend R	32 fl oz	Four (4)	New		2168	33,35
	Colortrend T	32 fl oz	Two (2)	New		2168	36,55
	Colortrend B 888	1 gal		New		2168	57,58
	Colortrend B 888	1 gal	13	New	See photo	220	1,2,4,6
	Colortrend C 888	1 gal	16	New	Yellow iron oxide, ethylene glycol, water diethylene glycol	128	7
	Colortrend KX 888	1 gal	11	New	Titanim dioxide, ethylene glycol, talc mg silired hydrate, water koulin, 1332-SB-7, diethylene glycol, al hydroxide, amorphous silica	83	13
	Colortrend I 888	1 gal	Seven (7)	New	See photo	78	17,19,20
	EUCD Winter Admixture for Mortar and Concrete	1 gal	1/2 pallet	New	None listed	53	21, 22
	Nails		5 boxes	New		142	---
	BASF Flexguard	Rolls			Fiberglass mesh	92	---
	Senergy Finish	70 lbs	25 pallets	New	Silica	141	28,29,30
	Door Casing			New		74	---

APPENDIX C - ALLIED BUILDING MATERIALS (WAREHOUSE AREA)
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
HICKSVILLE, NY

Location	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
Allied Warehouse Area							
20	Hip & Ridge Shingle Cap by Owens Corning Essential Protector & Finish of Roof Peaks					424	
	VanaTrol by SureClean (Sensitive break stove cleaner)	5 gal bucket	Five (5)		Not stated	1078*	93,94
	Aquafin-LK	50 lbs bucket	One (1)		Portland Cement & silica	1628*	
	HLM 5000 by BASF	5 gal bucket	8			1349*	95,96
	Enviroseal Double 7 for Brick (water based silicone/siloxane water repellant cedar)	5 gal bucket	12		Alkoxysilene	443	99
	Alson Flashing	5 gal bucket	5		Toluene, butanone, tosyle isograde, 2 methoxy-1-methyl, ethyl acetate, diphenylaethane, 4,4-disocyanate	417	100,101
	Bithene Liquid Membrane Parts A&B	1.5 gal	15			422	102,103
	Henry: 176 pondpatch	23 lb	Six (6)			424	104,105,106
	Acryl 60	5 gal bucket	Seven (7)			443	107,108,110
	Bithuthene Mastic Cartridge	30 oz	54			456	111,112
	IC 2480	5 gal	Two (2)		Not listed	300	113,114,115
	Henry: Bluerton Adhesive	5 gal			No back photo possible	300	117
	Bituthane Mastic by Grace	4.75 gal	1 pallet			240	119,120,121
	Bithuthene Primer B2LVC	5 gal bucket	1/2 pallet			240	122,123,124
	Top Coat by GAF	5 gal bucket	1 pallet		Buckets strapped on pallet	200	125
	Shingles					200	
21	Delta Foremost 3121-ES Dust Command	55 gal	One (1)	Good (Sprayer on top of drum)	Petroleum Hydrocarbons	5094	9,10,11,12,13
	Senergy Finish	5 gal bucket	One (1)	New		130	60,61
	Senergy Basecoat	5 gal bucket	One (1)	New		144	60,61
	Enrich Lotionized Handsoap with Aloe Vera [Located in storecloset by shopsink]	1 gal	Two (2)	New		150	
22	Kemper System Kemperal V210 & V210M (for waterproofing)	2.26 gal	16	New		368	14,15
	Kemper System Kemperdur Deko (Transparent)	1.26 gal	Two (2)	New		165	16,17,18,19, 20
	Kempertec AC Primer	1.26 gal	Three (3)	New	Contains 8062-6 Methyl Methocrylate	165	21,22
	Kempertec Kemper System Kemperal CP (Catalyst Powder)	.6 kg	7 packets	New	94-36-0 dibenzyl peroxide	330	23,24
	Kemper System Kepertec EP (Primer)	.7 kg, +.3 kg (2 products per pkg)	15	New	9016-879 Diphenyl methane-disocyanate	334	25,26,27,28
	Kemper System Kempertec R (Primer)	.18 gal	Three (3)	New		270	29
	Kemper-EP-ER A&B Finish = B; sealer = A	4.8 oz	Two (2)	New		345	30,31,32,33
	Kempertec D Kemper System (B&A)	3.89 gal	Five (5)	New		285	34,35,36,37, 38
	Kemper System Kemperal BR A Waterproofing	2.16 gal	Five (5)	New		324	39,40
	Kemper System Kemperal BR B	2.25 gal	Five (5)	New		319	41,42
	Kemper System Kemperal V210M (Waterproofing)	4.4 gal	Six (6)	New		300	43,44
	Kemperal BR-M	4.4	Three (3)	New		358	45,46
	Kemper System Kempertec BSF-R (Primer)	20 kg	Two (2)	New		356	47,48
	Kemperal 2K-Pur A&B	5 gal bucket	30	New		349	49,50,51
	Kemper System Kemperal VP-A Cold Activator	10 kg	10	New	2,2 [C4methylphenyl)imiro bisethenol]	415	---
	Kemper System Kempertec 1K Thinner		One (1)	New	1,2,4 Trimethyl-benzol	396	---
	Kemper System Kemperal AzK Pur Accelerator	80 g		New	90064304 - not listed	428	---
	Kemper System ThixotropicAdditive	1.5 gal	Eight (8)	New	30491275 - not listed	556	---

APPENDIX C - ALLIED BUILDING MATERIALS (WAREHOUSE AREA)
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
HICKSVILLE, NY

Location	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
Allied Warehouse Area							
22 (cont'd)	Kemperal 2K Pur (packet) A&B (Waterproofing)	2.5 kg	Eight (8)	New	996-87-9 - Diphenylmethane disocyate	394	54,55,56,57
	Kemper System Kempertec D Primer Packet	1 kg	Three (3)	New	9016-87-9 - Diphenylmethane disocyate	392	58,59
23	Resin Non-Slip #673 PID Base Size: 123 Non Skid Safety Coating	1 gal	Two (2)	Opened	See photo	160	610
	Ortho: Brush-B-Gone Poison Ivy Killer	1.33 gal	One (1)	Used	See photos	190	611,613
	Leaf Blower	NA	One (1)	Used	Gasoline/Oil	146	614
	Generator	NA	One (1)	Used	Gasoline/Oil	153	615
	Techni Seal: Dirt & Grease Cleaner	2 L	One (1)	Used	See photos	128	617/618
	Pemroy: Air Brake Anti-Freeze 5632	32 oz	Multiple	1 Used/ UO	See photos	123	619/620
	PowerService: Air Brake System Anti-Freeze	32 oz	Multiple	UO	See photos	165	622/623
	Lubri-Matic: Lithium Grease	3 oz	Three (3)	UO	See photos	166	624/625
	AGA Super Premium Green Grease	14 oz	Multiple	UO	See photos	191	626/627/628
	Valvoline: Ceruleon Heavy Duty Grease	14 oz	Multiple	UO/OP	See photos	184	629/630
	CRC Diesel Air Brake Anti-Freeze	32 oz	Multiple	OP/UO	See photos	197	631/633
	Silco Heavy Duty Diesel Fuel Conditioner	12 oz	One (1)	OP	See photos		634/635
	Utility Mates: Hornet & Wasp Spray 862	15 oz	One (1)	OP	See photos	189	636/637/638
	Mobil Rarus 427 Air Compressor Oil	1 qt	One (1)	OP	See photo	194	639
	Power Service Diesel Fuel - Injector Cleaner	32 oz	One (1)	OP	See photos	190	640/641
	Valvoline Hypo 85W140 gear oil	1 qt	One (1)	OP	See photo	182	643
	Shell Rotella T Heavy Duty 15W-40 Oil	1qt	Multiple	UO	See Photo	179	644
	Gunk Air Brake System Anti-Freeze	1 gal	Two (2)	1 OP/1 UO	See photos	183	645/646
	Wagner Brake Products 21B	1 gal	One (1)	OP	See Photo	198	649
	Sipersteins: Super Protective Coating: Sipthane	1 gal	Two (2)	OP	See photos	172	650/651
	Permatex Silicone Spray Lubricant	10.25	One (1)	OP	See photo	188	652
	Oatey #30810 All Purpose Plastic Cement	4 oz	One (1)	OP	See photos	207	653/655/656
	Blaster Protectant & Polish	NA	One (1)	OP	See photo	193	657
	Pyroil De-Icer	11.5 oz	One (1)	OP	See photos	186	658/650
	Great Stuff Pro Series Windows & Door	20 oz	One (1)	OP	See photos	171	661/662
	Used Motor Oil	~0.5	One (1)	OP	See photo	399	663
	ZEP Redi Grease	14.5 oz	One (1)	OP	See photos	304	664/665/666
	No. 7 Heavy Duty Rubbing Compound	10 oz	One (1)	OP	See photo	195	667
	SCS 1000	See previous			See photo	178	668
	Olympic Paint Lt Gray PO #129723	~ 1 qt	One (1)	OP	See photo	182	669
	Interior Spackling Base by Custom Building	1 qt	One (1)	OP	See photos	169	670/671
	3B Putty	~ 1 qt	One (1)	OP	See photo	176	672
24	Rotella T SAE 15W-40 Shell Oil (motor oil)	1 qt	Three (3)	New		394	---
	Dave - 2792 Antifreeze	1 gal	11	New		394	---
	Rolls of Rail Brackets by Tomko					394	
25	CertainTeed Cedar Shingles					403	
	Tri Built AirFlo Ridgevent					402	
	Shingle Fasteners					402	
	CA Chloride Crystals					402	
	Perlite Stripe					402	
	Plywood					402	
	Den's Deck-Prime Roof Board	4' x 8'; 4' x 4'	20 pallets	New	Fiberglass	520	1, 2
	Gypsum-Fiber Roof Board	4' x 8'; 4' x 4'	12 pallets	New	Gypsum	480	3, 4
	GAF ELK Seal a Ridge		7 pallets	New		462	---
	Prostat: Staten Strip Shingles (GAF ELK)		2 pallets	New		462	---
	Hip & Ridge AR with Sealant by Owens Corning		5 pallets	New	Asphalt/Fiberglass	407	---
	CertainTeed Shadow Ridge Shingles	72 per package	3 pallets	New		375	---
	GAF ELK Timbertex (Ridge Cap Shingles)		12 pallets	New	Asphalt	219	---
	CertainTeed Shingles Shadow Ridge Cream	72 per package	10 pallets	New	Asphalt	193	---
	CertainTeed Shingles Shadow Ridge Blue	72 per package	3.5 pallets	New		190	---

Notes:
1. '-- = No photographs available.
2. Photoionization detector (PID) readings (i.e., approximate total organic vapor concentrations) were obtained using a ppbRAE.
3. ppb = parts per billion.
4. qt = quart
5. gal = gallon
6. oz = ounce
7. mL = milliliter
8. fl oz = fluid ounce
9. L = liter
10. pt = pint
11. kg = kilogram

APPENDIX C - DWG
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location #	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
DWG							
1	Sherwin Williams Master HIDE Semi-Gloss Enamel	5 gal	One (1)	Empty	See photos	8	18,19,30, 32
	Sherwin Williams Promax Metal Enamel Extra White	124 fl oz	One (1)	Dented, paint on outside	See photos	18	20,29
	Sherwin Williams Master HIDE Semi-Gloss Enamel Extra White	124 fl oz	One (1)	Paint on outside	See photos	15	18,19
	Sherwin Williams ProClassic Semi-Gloss Extra White (interior oil based)	916 ml	Four (4)	Good, paint on outside	See photos	0	33,49
	Sherwin Williams Semi-Gloss (Red-Red)	872 ml	One (1)	New, dented	See photos	0	50,51
	Benjamin Moore Professional Coating Moorcraft Super HIDE (Base white)	1 gal	One (1)	Dented, paint on outside	See photos	0	52,53
	Sherwin Williams Color Accents Interior Latex Flat (Red-Red)	118 fl oz	One (1)	Dented, paint on outside	See photos	1	54,56
	KleanStrip Paint Thinner	1 qt	One (1)	Good	See photos	2	57,58
	Guardsmen AFTA Professional Strength Cleaner/Degreaser Adhesive Remover	16 fl ox	One (1)	Looks old	See photos	4	59,61
	MinWax Wood Finish (Red Oak 215)	1 gal	One (1)	Dented, paint on outside	See photos	0	62,63
	Sherwin Williams ProMax 400 Interior Latex Egg-Shell B20 W 4451	124 fl oz	One (1)	Almost empty	See photos	1	64,65
	Sherwin Williams ProMax 400 Interior Latex Egg-Shell B20 w 4451	5 gal	One (1)	Good	See photos		64,65,69
	Sherwin Williams ProMax 400 Interior Latex Flat B30 W 453	5 gal	One (1)	Good	See photos	0	66,68
	Sherwin Williams Master HIDE Flat Wall Paint Extra White White	5 gal	Four (4)	Paint on outside	See photos	4	70,72
	Sheetrock Lightweight All Purpose Joint Compound	4.5 gal	One (1)	Good	See photos	2	73,75
	Sheetrock All Purpose Joint Compound	61.7 lbs.	One (1)	Good	See photos	2	76,77
	Micrell Antibacterial Lotion Soap	1 gal	One (1)	Almost empty	See photos	22	78,79
	Zyrtec Cetirizine HCL Liquid Hand Soap	8 fl oz	One (1)	Good	See photos	16	80,81
	AirWick (Vanilla Indulgence)	8 fl oz	One (1)	Good	Not listed, see photo	17	82
	Palmolive Oxy Plus	13 fl oz	One (1)	Good	Not listed, see photo	15	83
	Lysol Disinfectant Power Toilet Bowl Cleaner	24 fl oz	One (1)	Good	See photos	11	84,86
2	Tools, screws, bolts, electrical tape, cables, electrical outlet plates			New		12	
	DAP Household Adhesive	1 fl oz	One (1)	New	See photos	10	117,118
3	Video Camera Kit, Wall Speakers, Speaker, Keypad			New		8	
	Smoke in a Can by GE Security	2.5 oz		New	See photos		106,108
	Outlet Plugs			New		24	
	Alarms						
4	Lysol Cleaner Lemon Breeze	28 fl oz	One (1)	Good	See photos	15	109,111,116
	Gojo Natural Orange Smooth Hand Cleaner	1 gal	One (1)	Good	See photos	18	112,114,116
	Gojo Rich Pink Antibacterial Lotion Soap		One (1)	In hand dispenser	See photo	10	115,116
5	Gojo Rich Pink Lotion		One (1)	In hand dispenser	See photo	21	115
	Lysol Disinfectant (Spring Waterfall)	19 oz	One (1)	Good	Not listed, see photo	21	119
	Elmer Glue All	7.65 oz	One (1)	Good	See photo	51	121
6	Glade (Clean Linen)	9 oz	One (1)	Good	Not listed, see photo	60	122
	CVS Antibacterial Hand Soap	8 oz	One (1)	Good	Not listed, see photo	62	123,124
	Gojo Rich Pink Antibacterial Lotion Soap	??	One (1)	In dispenser	See photo	63	125
7	Gojo Rich Pink Antibacterial Lotion Soap	?	One (1)	In dispenser	See photo	67	125

APPENDIX C - DWG
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location #	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
DWG							
8	DAP Contact Cement	3 fl oz	One (1)	Good	See photos	85	126,128,129
	Windex Original	32 fl oz	One (1)	Good	See photo	82	214
	Ethyl Rubbing alcohol	16 fl oz	One (1)	Good	See photos	108	130,131
	Sheetrock All Purpose Joint Compound	12 lb	One (1)	Good	See Photos	113	132,133
	Romans Wallpaper Paste	1 gal	One (1)	Good	Not listed, see photo	98	134,135
	Rustoleum Rusty Metal Primer	32 fl oz	One (1)	Good	See photos	89	136,137
	Elmers Carpenters Wood Filler	32 fl oz	One (1)	Good	See photos	89	138,139
	KleanStrip Acetone	1 qt	One (1)	Good	See photos	92	140,141
	Rustoleum Metallic	11 oz	Two (2)	Good	See photos	95	142,143
	Rustoleum Painters Touch	12 oz	One (1)	Good	See photos	95	144,145
	WD-40	11 oz	One (1)	Good	See photos		146,147
	WD-40	8 oz	One (1)	No Cap	See photos		146,147
	Liquid Nails Adhesive	118 ml	Three (3)	New	Sealed, NA (see photo)	101	148
	MinWax Fast Drying Polyurethane	8 fl oz	One (1)	New	See photos	106	149,150
	MinWax Wood Finish	8 fl oz	One (1)	New	See photos	112	151,152
	Oatey PVC Cement	8 fl oz	One (1)	New	See photos	123	153,156,157
	Oatey Cleaner	8 fl oz	One (1)		See photos	111	160,161
	Oatey Medium Blue Rain-R-Shine PVC Cement	8 fl oz	One (1)		See photos	108	162,163
	Sakrete Concrete & Mortar Repair	10.3 oz	Two (2)	New	See photo	116	164
	Karnak #19 Flashing Roof Cement	1/10 gal Cartridge	One (1)	Good	See photos	113	165,167
	DAP Alex Plus Acrylic Latex Caulk Plus Silicone	10.1 fl oz	One (1)	In dispenser	See photos	118	168,169
	5-Minute Epoxy by ITW Performance Polymer	0.25 ml	One (1)	New	Not listed, see photo	113	170
	Electrical Tape	rolls					
9	BIC White Out	20 ml	One (1) Box	New	See photo	112	171
	Staples Shredder Lubricant	14 oz		Old	Not used - soybean oil, mineral oil		172,173
10	Stoner Flux Remover	12 oz			Not used samples		174,184,185
	Stoner Freeze Spray	1 oz			See photos		174,178,181
	Stoner Gust Bag Duster	15 oz					174,182,183
	Stoner Plastic Surface Cleaner	13 oz					174,184,185
	Stoner Electro Klene						175,177
11	Glade (Clean Linen)	9 oz	One (1)	New	See photo	129	122
12	Purell Hand Sanitizer	8 fl oz	Seven (7)	New	See photo	129	187
	Rite Aid Hydrogen Peroxide Solution	16 fl oz	One (1)	New	See photos	129	186,188,189
	CVS Antibacterial Soap	8 oz	One (1)	Almost empty	Not listed, see photo	128	123,124
	Lysol Disinfectant Power Toilet Bowl Cleaner	24 fl oz	One (1)	Good	See photos	128	190,191,192
	Micrell Antibacterial Lotion Soap	1 gal	One (1)	Good	See photos	128	193,194
	Windex Glass Cleaner	1 gal	Two (2)	Good	See photos	128	195,196
	Windex Antibacterial Multi-Surface	1 qt	One (1)	Good	See photo	128	197
	Clorox Disinfecting Bathroom Cleaner	30 fl oz	One (1)	Almost empty	See photos		198,199, 200,201
	Shout	30 fl oz	One (1)	Good	See photos		202,203
	Professional Resolve Spot & Stain	32 fl oz	Two (2)	Good	See photos		204,205, 206,207
	Black Flag Home Insect Control	32 fl oz	One (1)	Good	See photos		208,209
	Oust Air Sanitizer	10 oz	One (1)	Good	See photos		211,212
	Quality Care Antibacterial Spray Disinfectant	10 oz	One (1)	Good - No cap	Not listed, see photo	126	213

APPENDIX C - DWG
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location #	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
DWG							
12 (cont'd)	Windex Original	32 fl oz	One (1)	Good	Not listed, see photo	126	214
	Lysol Disinfectant with Bleach	30 fl oz	One (1)	Good	See photo	126	215
	Pledge Orange Oil	16 fl oz	One (1)	Good	Not listed, see photo	126	216
	Fantastik Heavy Duty	1 qt	One (1)	Almost empty	See photo	126	217
	Mr. Clean with Febreze	32 fl oz	One (1)	Almost empty	See photo	126	218

Notes:
1. '-- = No photographs available.
2. Photoionization detector (PID) readings (i.e., approximate total organic vapor concentrations) were obtained using a ppbRAE.
3. ppb = parts per billion.
4. qt = quart
5. gal = gallon
6. oz = ounce
7. ml = milliliter
8. fl oz = fluid ounce

APPENDIX C - EMPIRE BAKERY EQUIPMENT
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location #	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
Empire Bakery Equipment							
1	Unknown Products	~16 oz	One (1)	OP	NA	1345	933
	Zenex: Zena Gel Oven Cleaner	18 oz	One (1)	OP	See photos	1345	933,935,936
	Odorless Solvent Cleaner	35 gal	Two (2)	UKN	See photos	1345	937,938
	Spray-on Lubricants 500700 Food Grade Machinery Oil	10 oz	One (1)	OP	See photos	1345	939,940
	Gas Can	1 gal	One (1)	OP	See photo	1164	941
2	Odorless Mineral Cleaner: City Wide Paper & Specialty	35 gal	One (1)	OP	See photo	4486	942
	Orange Cleaner: City Wide Paper & Specialty	55 gal	One (1)	OP	See photos	1602	943,944
	Used/Waste Liquid	35 gal	One (1)	OP	Various	8709	945,946
3	All Bright SS Cleaner	14 oz	Multiple	OP/UO	See photos	1167	947,948
	Swell SS Cleaner	15 oz	Multiple	OP/UO	See photos	1167	947, 949
	Zenex: Zena Orange Solv	12 oz	Multiple	OP/UO	See photos	1167	947,950
	Zenex: Zena Gel Oven Cleaner	18 oz	Multiple	OP/UO	See photos	1167	947,951
	Edmer Vandalism Mark Remover	16 oz	Two (2)	OP/UO	See photos	1167	947,952
	Zenex Glecmonex	19 oz	Multiple	OP/UO	See photo	1167	953
	Apollo SS Cleaner	18 oz	Two (2)	OP/UO	See photos	1167	953,954
	Zenex: Zenal Sheen H2O	18 oz	Multiple	OP/UO	See photos	1167	953,955
	Zenex: Zena Sheen SS Polish	14 oz	Multiple	OP/UO	See photos	1167	953,956
	Zenex: Zena Power Gel	18 oz	Multiple	OP/UO	See photos	1167	953,957
	Heavy Duty Map & Strip: City Wide Paper & Specialty	32 oz	One (1)	OP	See photos	1167	958,959
	Mobil SW-30 oil	1 qt	One (1)	OP	See photo	1167	961
	Jeloven & Grill Cleaner	1 gal	One (1)	OP	See photo	1167	962
	A New Fruit Acid Cleaner	1 gal	Multiple	OP	See photo		963
	Lime Out Extra	24 oz	One (1)	OP	See photo	1185	964
	Oiled Metal parts	35 gal	1 Bucket	OP	NA	1272	965
4	Pledge Clean & Shine	17.7 oz	One (1)	OP	See photo/previous	1442	966
	Magnum Research Corp Oven Kleen	18 oz	One (1)	OP	See photos	1442	966,970
	Windex Crystal Rain	32 oz	One (1)	OP	See photo/previous	1442	966
	Mr. Clean Febreze	1 gal	One (1)	OP	See photo/NA	1442	967
	Pledge Lemon	17.7 oz	One (1)	OP	See photo/previous	1442	967
	SoftSoap Antibacterial	32 oz	One (1)	OP	See photo/previous	1442	967
	WD-40	12 oz	One (1)	OP	See photo/previous	1442	967
	Krud Kutter: The Must for Rust	32 oz	One (1)	OP	See photos	1442	967,971
	Oven Kleen	1 gal	One (1)	OP	See photos	1442	968,972
	Simple Green Cleaner	1 gal	One (1)	OP	See photos	1444	968
	Benjamin Moore Super Hide	3.7 L	One (1)	OP	See photos	1444	969,973
5	Apollo SS Cleaner	See previous		OP	See photo/previous	1254	974
	Zena Gel Oven Cleaner	See previous		OP	See photos/previous	1254	974
	Glecmonex	See previous		OP	See photos/previous	1254	974
5	Valspar Signature Colors Interior Paint	1 gal	Multiple	OP	See photos	1254	975,976
	Valspar Interior Latex Primer	1 gal	Multiple	OP	See photos	1247	977,978
6	Drackett: Mr. Muscle Cleaner	19 oz	One (1)	OP	See photos	2349	979,982,983
	Paint Thinner? (very odorous)	~4 oz	1 Small bucket	OP	See photos	2349	979,984
	Ultra Kill: Ant & Roach Killer	17.5 oz	One (1)	OP	See photos	2349	979,985
	Fantastik Heavy Duty	32 oz	One (1)	OP	See photos	2349	979,986
	Unknown Cleaner	32 oz	One (1)	OP	See photo	2349	980
	Unknown Cleaner (Windex?)	32 oz	One (1)	OP	See photo	2349	980
	Glecmonex	11 oz	One (1)	OP	See previous		980
	Krud Kutter	See previous					980
	Zena Orange Solv	See previous					981
	Oven Kleen (Magnum)	See previous					981
	Green Satin Glove Hand Soap	5 lbs	One (1)	OP	See photo	2349	981
	Go-Jo Orange Pumice Hand Cleaner	4.5 lbs	Two (2)	OP	See photos	2357	981,987

APPENDIX C - EMPIRE BAKERY EQUIPMENT
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location #	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
Empire Bakery Equipment							
7	Goo Gone: Pro Power	8 oz	One (1)	OP	See photo	2734	988,993
	Indian Head Gasket Compound	2 oz	One (1)	OP	See photos	2734	988,994
	Loctite 609	0.34 oz	One (1)	OP	See photos	2734	988,995,996
	3M High Strength 90 Spray Adhesive	16.25	One (1)	OP	See photos	2734	988,997,998
	Spray-on Plastics Safe Contact Cleaner EL2020	12 oz	One (1)	OP	See photos	2734	989,1000, 1001,1002
	3M 1602 IviSpray Sealer	13 oz	One (1)	OP	See photos	2734	989,1003
	RadioShack Electronic Cleaner 64-4327	6.78 oz	One (1)	OP	See photos	2734	989,1004
	Rustoleum Gloss Enamel	12 oz	Multiple	OP/UO	See photos	2734	989,1005
	Bondo-Glass	2.5 lbs	Multiple	OP	See photos	2734	990,1006
	3M Bondo Body Filler	1 3/4 lbs	Multiple	OP	See photos	2734	990,1007
	DAP Weldwood Contact Cement	16 oz	Multiple	OP	See photos	2734	990,1008
	Bondo Home solutions All Purpose Putty	1 3/4 lbs	One (1)	OP	See photos	2734	991,1010
	DAP Weldwood Nonflammable Contact Cement	32 oz	One (1)	OP	See photos	2734	991,1009
	KleenStrip: Pure Gum Spirit Turpentine	1 qt	One (1)	OP	See photos	2734	991,1025
	KleenStrip: S-L-X Denatured Alcohol	1 gal	Two (2)	OP/UO	See photos	2734	992,1026
	Robarts Mineral Oil	16 oz	One (1)	Open	See photo	2734	992
	WD-40	12 oz	See previous			3380	992
8	Ace Heat Resistant Paint	12 oz	One (1)	Open	See photos	2783	1030,1031
	Valspar Gloss Paint	12 oz	Multiple	OP/UO	See photos	2783	1030,1032,1033
	Rustoleum Gloss Enamel Paint	12 oz	Multiple	OP/UO	See photos	2783	1030,1034
	Krylon Crystal Clear Acrylic	11 oz	Multiple	OP/UO	See photos	2783	1030,1035
	All Pro Spray Enamel	11 oz	Multiple	OP/UO	See photo	2783	1030
	3M High Strength Adhesive	16.6 oz	One (1)	OP	See photos	2722	1036,1037
	Rustoleum Professional High Pro Enamel	19 oz	Multiple	OP/UO	See photos	2783	1036,1039,1040
	Rustoleum Specialty Appliance Epoxy	12 oz	One (1)	UO	See photos	2783	1036,1041
	Rustoleum Professional Oil Based HIPO Enamel	1 gal	Multiple	OP/UO	See photos	2783	1036,1042
	Ultra Kill: Ant & Roach Killer	See previous					1043,1044
	KleenStrip Mineral Spirits	1 qt	One (1)	OP	See photos	2783	1043,1045
	R-M Limco Supreme LR1270 Fast	~1 gal	One (1)	OP	See photos	2783	1043,1046
	KleenStrip Odorless Mineral Spirits, Paint Thinner	1 gal	One (1)	OP	See photos	2783	1047,1048
	BIX Spray-On Stripper	1 gal	One (1)	OP	See Notes	2783	1047,1049
	KleenStrip S-L-X	See previous			See Notes	2722	1047,1050
	Nimbus 460,150	5 gal	Multiple	OP	See photos	2725	1051
9	Grease Tube	NA	One (1)	OP	See photos	2725	1051
	Liquid Paper White Out	22 ml	One (1)	OP	See photos	2770	1052
	Krazy Glue	NA	One (1)	OP	See photo	2770	1052
	ShopRite Nail Polish Remover - Regular	6 oz	One (1)	OP	See photo	2741	1052,1053
10	Spent Oil/Cleaner Holding Tank	~55 gal	One (1)	OP	See photo (Strong Odor When Open)	16.4 - 83,900	1054,1055
11	Magnum Research Corp: Mag 38 Lub	~16 oz	One (1)	OP	See photos	1068	1056,1057,1058
	Ultra Palmolive Antibacterial	32 oz	One (1)	OP	See photos	1068	1056,1059
	Chemco Dirt Buster III Oven Cleaner	1 L	One (1)	OP	See photos	1068	1056,1060
	Comet w/Bleach	25 oz	One (1)	OP	See photos	1126	1056,1061,1062
12	Sheetrock Joint Compound	61.7 lbs	One (1)	OP	See photos	741	1063,1065, 1066
	Benjamin Moore Professional Super Hide Paint	~1 gal	One (1)	OP	See photos	732	1063,1064
13	Lysol Disinfectant Wipes	110	One (1)	OP	See photos	915	1070
14	CVS Hand Sanitizer		One (1)	OP	See photo	1072	1071
	Aveeno Hand Lotion		One (1)	OP	See photo	1072	1071
15	CVS Hand Sanitizer w/Aloe		One (1)	OP	See photo	882	1072
16	Oust Surface Disinfectant Air Sanitizer	12 oz	One (1)	OP	See photo	856	1073
	Kleen Mist Odor Control by Continental Manufacturing	7 oz	One (1)	OP	See photos	856	1073,1074
	CVS Hand Soap	7.5 oz	One (1)	OP	see photos	856	1075,1076
	AirWick Plug-in	NA	One (1)	OP	See photos	861	1077
17	Benjamin Moore Regal Flat Finish	1 gal	Three (3)	OP	See photos	847	1078,1079
	Ralph Lauren Paint Interior Satin	1 gal	One (1)	OP	See photos	847	1078,1079
	Sherwin Williams Master Hide Flat Wall Paint	1 gal	Two (2)	OP	See photos	880	1080,1081
18	WD-40	12 oz	One (1)	OP	See previous	1004	1085

APPENDIX C - EMPIRE BAKERY EQUIPMENT
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location #	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
Empire Bakery Equipment							
19	Lysol Wipes	See previous				1096	1082
	Care One Hand Sanitizer	8 oz	One (1)	OP	See photos	1096	1082,1083
	Zena Orange Solv	See previous				1131	1084
20	Palmolive Soap	90 oz	Two (2)	OP/UO	See photo/NA	896	1086
21	Comet w/Bleach	See previous				896	1086
	Febreze Air Freshener	8.7 oz	One (1)	OP	See photos	1161	1087,1088
	Lysol Wipes	See previous				1194	1087,1089
22	Secret Womans Deodorant		One (1)	OP	See photo	1391	1091
	Hydrogen Peroxide		One (1)	OP	See photo	1391	1092
	Good Sense Ethyl Rubbing Alcohol	16 oz	One (1)	OP	See photo	1391	1093
	Febreze Air Freshener		One (1)	OP	See photo 1088	1391	1090
	Airwick Air Freshener Plug-in	NA	Multiple	OP/UO	See photos	1359	1090,1094

Notes:
1. '-- = No photographs available.
2. Photoionization detector (PID) readings (i.e., approximate total organic vapor concentrations) were obtained using a ppbRAE.
3. ppb = parts per billion.
4. qt = quart
5. gal = gallon
6. oz = ounce
7. ml = milliliter
8. lbs = pounds
9. L = Liter

APPENDIX C - MASH CITY
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location #	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
Mash							
1	Mop & Glo	32 fl oz	One (1)	Good	Not listed; see photo	79	219
	Windex - original	26 fl oz	One (1)	Good	See photo	82	214, 197
	Clorox Disinfecting Wipes	1 lb 3.3 oz	One (1)	Good	Not listed; see photo	82	220
	Ajax with Bleach power cleanser	14 oz	Two (2)	Good	See photo	82	221
	Ajax with Bleach power cleanser	21 oz	One (1)	Good	See photo	82	222
	Comet with Bleach	14 oz	One (1)	Good	See photo	82	223, 224, 226
	Ajax Dish Liquid (lemon)	34 fl oz	One (1)	Good	Not listed; see photo	84	227
	Dawn Ultra concentrated	709 ml	One (1)	Good	Not listed; see photo	84	228
	Fantastik Heavy Duty	1 qt	One (1)	Good	Not listed; see photo	84	229
	PineSol	28 fl oz	One (1)	Good	See photo	84	230,231
	Dawn Non-concentrated Original Scent	14 fl oz	One (1)	Good	See photo	88	232,233,234
2	Glade Surface Disinfectant & Air Sanitizer	12 oz	One (1)	Good	See photo	103	235,238
	Lucky Antibacterial Hand Soap	13.5 oz	One (1)	Good	See photo	150	239,240
	Swan Hydrogen Peroxide	32 fl oz	One (1)	Good	See photo	156	241,242
	Swan 70% Isopropyl Alcohol	32 fl oz	One (1)	Good	See photo	125	243,244
	Liquid hand soap Antibacterial ocean fresh	13.5 oz	One (1)	Good	See photo	138	245,246
	Clorox Clean-up Cleanser with Bleach	1 qt	One (1)	Good	See photo	138	247,248
	See Photos - Personal Products in Box of Mens Room						134,135,139, 141,142,143,144,145
3	Glade Crisp Water	9 oz	One (1)	Good	Not listed; see photo	132	2
	Berkley & Jensen Disinfectant Wipes (fresh air scent)	1 lb 6.4 oz	One (1)	Good	See photo	128	3,4
	SoftScrub Lemon Cleanser - distributed by Dial Corp	1 lb 10 oz	One (1)	Good	Not listed; see photo	133	5
	SoftSoap Refill Moisturizing Hand Soap (Aloe Vera)	128 fl oz	One (1)	Good	See photo	204	6,8
	Swan Hydrogen Peroxide	32 fl oz	One (1)	Good	See photo	209	9
	Swan 70% Isopropyl Alcohol	32 fl oz	One (1)	Good	See photo	316	10
	SoftSoap Antibacterial Hand Soap Refill	80 fl oz	One (1)	Good	See photo	270	11,12
	Febreze Set & Refresh (2 scented refills) Air Fresheners	0.18 fl oz	Two (2)	Good	Not listed; see photo	270	13
	Berkley & Jensen Triple Antibiotic Ointment	2 oz	One (1)	Good	See photo	270	14, 16
	Disposable Flush Brush Toilet Cleansing System	not stated	One (1)	Good	Not listed; see photo	194	17
	Simple Green Natural Liquid Hand Soap	16 fl oz	One (1)	Good	See photo	186	18, 19
3	Lucky Super Soft Antibacterial Hand Soap (papaya & mango)	13.5 oz	One (1)	Good	See photo	184	20,21
	empty, motorized dispenser						
	Sex in the City Perfumed Body Lotion	20 oz	One (1)	Good	See photo	206	22
4	Sheetrock All Purpose Joint Compound	6 lb	One (1)	Dried almost empty	Prior photo	173	76,77 (on 4/19/11)
	Sheetrock All Purpose Joint Compound	7 lb	One (1)	New	Prior photo	173	76,77 (on 4/19/11)
	Sherwin Williams PrepRite Block Filler Interior/Exterior Latex	630 fl oz	One (1)	New	See photo	174	150,151,152
	Sherwin Williams Master Hide Flat Wall Paint Extra White	630 fl oz	One (1)	Old - Paint on outside	See photo	176	153,155
	Quickrete Multi-surface Concrete Stain	116 fl oz	One (1)	Good	See photo	183	156,158
	Benjamin Moore Semi-Gloss Finish	1 gal	One (1)	Good	See photo	181	159
	Benjamin Moore 100% Acrylic All Purpose Primer (white)	1 gal	One (1)	Paint on outside	See photo	183	162,163
	Aboff's Enamel	126 fl oz	One (1)	Paint on outside	See photo; oil primer	191	164,165
	Sherwin Williams Multi-Purpose Oil Based Primer (white)	5 gal	One (1)	Paint on outside	See photo	198	166,167
5	Berkley & Jensen Disinfectant Wipes (fresh air scent)	1 lb 6.4 oz	One (1)	Good	See photo		3,4
	Sanford Expo White Board Cleanser	8 fl oz	One (1)	Good	See photo	178	24,25,27, 29, 30
6	Shredder Lubricant	16 fl oz	Seven (7)	New	See photo	176	31
	White Out	20 mil	Two (2)	New	See photo	171	171 (on 4/19/11)

APPENDIX C - MASH CITY
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location #	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
Mash							
7	Windex - original	32 fl oz	Four (4)	Good	See photo	221	197, 214 (on 4/19/11)
	WD-40	8 oz (metal can)	One (1)	Good	Have photo???		146, 147 (on 4/19/11)
	Dust-Off Compressed Gas	12 oz	Seven (7)	Almost Empty	Difluoroethane (R152a) (no clean photo)	316	34,35,36
	TechSpray Platen Cleanser	55 mil	Two (2)	Good	D-limonen chlorinated parafin (no clean photo)	224	50, 53
	Sanford Corp Liquid Paper	22 mil	One (1)	Good	Not listed; see photo	227	56,57
	Ko-Rec Type Coverup	24 mil	One (1)	Good	Not listed; see photo	227	56,57
	WD-40	3 oz	One (1)	Good			146,147
	Goo Gone Spray Gel	12 fl oz	One (1)	Good	Petroleum Disalte; see photo	267	58,62
	D-Ink	250 ml	Two (2)		Refer to MSDS; see photo	254	63,64
	Rubbing Alcohol	150-300 ml bottles	Five (5)	All almost empty	Not listed on container; see photo	254	65,66
	SuperLube Synthetic Grease	3 oz	One (1)	Almost Empty	Not listed; see photo	237	67,68
	SuperGlue	.07 oz	Two (2)	Good	See photo	237	69,71
	Special Lubricant Oil for Paper Shredder Chinohrim-antone de by HSM-Germany	50 ml	One (1)	Good	Not listed; see photo	275	72
	Epoxy 2 mixture type	40 ml total	One (1)	Good	Not listed; see photo	257	73
	Colman MFG Part Grease # 1665	8 oz	One (1)	Good	Not listed; see photo	193	74,75
	Typewriter Oil	30 ml	Two (2)		Not listed; see photo	249	76
	Ahara Mineral Body Lotion	100 ml	One (1)	Almost Empty	See photo	209	77,78
	Isopropyl Alcohol per	Master Size	One (1)	Old	Not listed; see photo	181	79
	Swan 70% Isopropyl Alcohol	32 fl oz	One (1)	Good	Have prior photo	74	243,244 (on 4/19/11)
	Epson Cleaner	8 oz container	One (1)	Almost Empty	See photo; handwritten	79	80,81
	Simple Green	32 fl oz spray dispenser	One (1)		See photo "Simple Green" not listed	74	83
8	Ames Supply Company Lube Oil	80 ml	One (1)	Old	Not listed; see photo	62	85,86,87
	Fedron	400 ml	One (1)	Old	See photo	60	88,89
	Water (green spray bottle)	12 oz	One (1)	Water Old	Not listed; see photo	60	90
	Amy Nail Polish (Silver Stone)	1.5 ml	One (1)	Good	See photo	62	91,92
	Liquid Nails Adhesive	4 fl oz	One (1)	New	See photo	42	93,94
	Water & Fantastik Cleaner Mixture	1 gal	One (1)	Old	Not listed; see photo	41	95
9	CRC Industrial QD Contact Cleaner	11 oz	One (1)	Old almost empty	See photo	70	96,97,98,99
	Windex	16 oz	One (1)	Good	In spray bottle; Not listed; see photo	52	100
	Noxon 7 Metal Polish	12 fl oz	One (1)	Old	Silica, ammonia oxalic acid; No clean photo (see photo)	62	101,102
	Washing Wax Cleaner	100 ml	One (1)	Good	See photo	52	109
10	Midty Sila-Clean Protective Cleaner & Polish	1 gal	Two (2)	Good	See photo	56	110,111
	WD-40	12 oz	One (1)	Empty	See prior photo	44	146, 147 (on 4/19/11)
	WD-40	16 oz	One (1)	Empty	See prior photo	44	146,147 (on 4/19/11)
	D-Ink	6 oz	One (1)		See previous photo; see MSDS Sheet	37	63,64
	Spray 9 Cleaner	16 oz	One (1)		In spray dispenser; see photo	37	112
	Fantastik	32 fl oz	One (1)		Not listed; see photo	41	113
	Clean Safe Dust Remover	10 oz	One (1)	Empty	See photo	39	114
	Anti-Static Foam Cleanser for Glass & Plastic by Staticode	8 oz	One (1)		Not listed; see photo	54	115
	WD-40		One (1)		See photo; unlabeled spray bottle	61	146,147 (on 4/19/11)
	D-Ink	1 gal	One (1)	Good	See MSDS & Photo	61	63,64

APPENDIX C - MASH CITY
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location #	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
Mash							
11	WD-40	16 oz	One (1)	New	See photo	79	146,147 (on 4/19/11)
	Zep Commercial Formula 505 Cleanser Degreaser	32 fl oz	One (1)	New	See photo	83	120,121
	SoftScrub bleach	2 lb 4 oz	Three (3)	New	See photo	84	122,123
	WD-40	3 oz	One (1)	New	Prior photo	85	146,147 (on 4/19/11)
	D-Ink by Comperi Office Equipment	1 gal	One (1)	New	See MSDs & Photo	85	63,64, 124,125,126
	WD-40	1 gal	One (1)	New		87	127 (on 4/19/11)
	Dust-Off	12 oz	Three (3)	New	See photos	97	34,35,36
	Windex	1 gal	One (1)	New	See photo	99	197, 214 (on 4/19/11)
	Spray 9 Cleaner & Disinfectant	1 gal	One (1)	Good	See photo	97	128,130
	Zep Formula 505 Cleanser Degreaser	32 fl oz	One (1)	Good	See photos	103	131,132

Notes:
1. '-- = No photographs available.
2. Photoionization detector (PID) readings (i.e., approximate total organic vapor concentrations) were obtained using a ppbRAE.
3. ppb = parts per billion.
4. qt = quart
5. gal = gallon
6. oz = ounce
7. ml = milliliter
8. L = Liter
9. fl oz = fluid ounce

APPENDIX C - NEW BUSINESS SOLUTIONS (NBS)
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
125 NEW SOURTH ROAD
HICKSVILLE, NEW YORK

Location #	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
NBS							
1 Large Warehouse	Elmers Glue All Multi-Purpose	1 gal	Three (3)	Good, one empty	Not listed	1200	341
	Stop & Shop Pure Power Glass Cleaner	32 fl oz	One (1)	Good	Not listed	1252	342
	Krylon Fusion for Plastic	12 oz	Five (5)			1227	
	Goo Gone	8 fl oz	One (1)	3 (no cap)	Not listed	1254	343
	Novus 3 Heavy Scratch Remover	8 fl oz	One (1)			1215	344,345
	Novus 2 Fine Scratch Remover	8 fl oz	One (1)	Good		1235	346,349
	Rustoleum Advanced Formula All Surface Paint Flat Black	12 oz	One (1)	Good		1339	350,351
	Gunk Heavy Duty Silicone Spray Lubricant	11 oz	One (1)	No cap		1281*	352,354,355
	Rustoleum Professional High Performance Enamel	14 oz	One (1)	Good		1335*	356,357,358
	Valspar Interior Eggshell Finish (Eggshell Ultra White)	1 gal	One (1)	Paint on outside		1407*	359,360
	Rustoleum Bright Coat	11 oz	One (1)	No cap		1415*	361,362
	Rustoleum Gloss Protective Enamel	12 oz	One (1)	Good		1440*	363,364
	Rustoleum - America Finest Fast Dry All Purpose Interior/Exterior	11 oz	One (1)	Empty/Good		1415*	365,366,367
	Spray Paint Interior/Exterior Fast Dry	10 oz	One (1)	Good		1357*	368,369
	Valspar Plastic Paint	12 oz	One (1)	Good	Not listed	1394	370,371
	Valspar Satin Finish	12 oz	One (1)	Good		1342	372,373,374
	Ace Premium Enamel	12 oz	One (1)	No cap		1380	375,376
	Krylon Interior/Exterior	12 oz	One (1)	Good		1361	377,378,379,380
	Caseway-Acrylic Adhesive SC-125	16 oz	One (1)	Empty		1368	381,382
	Lubrimatic Green - White Lithium Grease	8 oz	One (1)	Good		1401	383,384
	Ace Siliconized Acrylic Caulk (Window & Door)	5.5 fl oz	One (1)	Good		1362*	385,386 387,388
	Worthington Pro Grade Propane	14.1 oz	One (1)	Good		1361*	389,390
	3M Super 77 Multi-Purpose Adhesive	16.75 oz	One (1)	Good			71,72,73, 74
	Ace Royal Flat Wall Paint Acrylic Latex Black	946 ml	One (1)	Loose lid, paint on outside, dried up inside		1353*	391,392
	Scotch Repositionable Adhesive Transfer Tape for AT6	.75" x 36 yd	24 rolls	Good			393
	3M Loose Large Adhesive Rolls	?		Good		1357*	394
	DAP DryDex Spackling Interior/Exterior	32 fl oz		Empty		1337*	395,396,397
	Scotch 3M Tape VHB 4910	25.4 mm x 0.91 m	2 rolls	Good	Not listed on package	1312*	398
	Scotch 3M VHB 4941 Foam Tape	1" x 1 yd	1 roll	Good	Not listed	1250*	399
	Elmers Carpenter Wood Filler Interior/Exterior	32 oz	1	Good		1258*	400,401

APPENDIX C - NEW BUSINESS SOLUTIONS (NBS)
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
125 NEW SOURTH ROAD
HICKSVILLE, NEW YORK

Location #	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
NBS							
1 Large Warehouse (cont'd)	Elmers All Multi-Purpose Glue	8 fl oz	One (1)	Empty			402,403,404
	Plastic Dispensers no label	~500 ml	Five (5)	Open top dispenser	Glue	1218	
	Machine Tape		3 rolls	Good		1249	405
	Liquid Nails Heavy Duty	10 fl oz	26	Good, one empty		1247	406,407,408,411
	Benjamin Moore Semi-Gloss Finish Medium Base N33 2B Acrylic Paint	124 fl oz	Five (5)	4 Good, 1 paint outside		1418	412,413,414
	Valspar Interior/Exterior High Gloss Enamel Gloss Black	1 gal	One (1)	Good		1328	415,416
	Benjamin Moore Satin Imperio MidBase 314 2B	124 fl oz		Paint on outside		1353	418,419
	E-Z Fox H303 Glue Acrylic to Acrylic	5 gal		Empty		1281	426,427,428
	Codhouse Pneumatic Ar-Tool Lubricant ATL016	1 pt		Old		1447	429,431,434
2 Large Warehouse	Febreze Air Effects Apple Spice Delight	9.75		Good	Not listed	1909	435
	Lysol Professional Disinfectant Spray (Crisp Linen)	19 oz		Good	Not listed	1880	436
	Lysol Disinfectant Bathroom Cleaner 4-in-1	32 oz		Good	Not listed	1969	437
	RedMax Bleach	3 qt	One (1)	Good		1302	438,439
	MDR Instant Fender Cleaner	16 oz	One (1)	Good		1408	440,441
	MDR Krazy Clean	24 fl oz	One (1)	Good		1889	442,443
	Marine Grez-Off	32 fl oz	One (1)	Good		1702	444,445,446
	SoftSoap	7.5 oz	One (1)	Good			447,449,449
1	Compressed Gas Oxygen	32" H	One (1)	Good		53	69
	Compressed Gas Hydrogen	31" H	One (1)	Good		53	69
	Compressed Gas 75% Argon & 25% Carbon Dioxide	56" H					70
2	Rustoleum Primer Touch Multi-Purpose Paint (clear)	11 oz	One (1)	Almost empty	Toluene, xylene, acetone	97	4,5
	Ace Premium Enamel	12 oz	Two (2)		Ketones, toluene	100	6,7
	Ace Polyurethane Clean Finish - gloss	11 oz	One (1)		Ketones, toluene, xylene	72	8,9
	Krylon Fusion for Plastic Paint	12 oz	Nine (9)	3 empty	Ketones, propane, toluene, butane, alphatic hydrocarbon xylene	66	10,11,12
	Seymour Rapid Seal	18 oz	One (1)		Propane, N-butone, VM&P naphta, toluone, petroleum asphalt	66	13,14
	Dupont Teflon Silicone Lubricant	10 oz	Three (3)		Acetone, silicone, teflon fluoropolymer, aliphateo hydrocarbon	130	15,16
	Rustoleum Lacquer	11 oz	Two (2)	Broke on top spray nozzle	Petroleum distillate, toluene	132	17,18
	Valspar Satin Red	12 oz	One (1)		dimethyl ketone, xylene, methyl isobutyl ketone	136	19,20
	Rustoleum Professional High Performance Enamel	15 oz	Two (2)	Broken spray nozzle	Acetone, xylene	136	21,22

APPENDIX C - NEW BUSINESS SOLUTIONS (NBS)
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
125 NEW SOURTH ROAD
HICKSVILLE, NEW YORK

Location #	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
NBS							
2 (cont'd)	Ace Rust Stop	15 oz	One (1)	No cap	Ketones, xylene, aliphates hydrocarbons	136	23,24
	Krylon Satin Touch: Satin Finish	12 oz	One (1)		Ketones, xylene, acetates, ethylbenzene	136	25,26,27
	Rustoleum Semi-Gloss Black Protective Enamel	12 oz	Two (2)		Xylene, acetone	147	28,29
	Rustoleum Hammered Paint for Elastic	12 oz	Three (3)	One broken spray nozzle	Toluene, acetone, xylene	121	30,31
	Krylon Rust Touch Enamel	12 oz	One (1)		Ketones, toluene, xylene	122	32,33
	Valspar Gloss Basic Colors	12 oz	One (1)		Ethylbenzene, xylene, VM&P naptha, dimethyl ketone, isobutyl acetate	133	34,35
	Rustoleum Plastic Primer	12 oz	One (1)	Good	Toluene, xylene	136	36,37
	Rustoleum Metallic (Silver)	11 oz	One (1)	Empty	Toluene, xylene, acetone	163	38,39
	Five Star Spray Enamel	11 oz	Seven (7)	Good	Toluene, ketones, aliphatic hydrocarbons	136	40,41,42
	Nifty Tan Mark	12 oz	One (1)	Good	VM&P naphta, petroleum naptha, acetone, mineral spirit, hydrocarbon propellant	132	43,44
	Ace Epoxy Enamel	11 oz	One (1)	Good	Ketones, acetate, xylene	110	45,46
	DAP Strong Stik	5.5 fl oz	One (1)	Good	Ca Carbonate, ethylene glycol, crystalline silica, soda lime base select	125	47,48
	DAP Construction Adhesive Heavy Duty (green-go-be)	28 fl oz; 10 oz	One (1) Two (2)	Good	Ethylene stycol calcium carbonate, soda, gycol, lime, ammonia, borsilicate glay	141	49,52,53,54
	DAP Construction Adhesive Subfloor & Deck (Brown Label)	28 oz	One (1)	Good	Diethylane glycol, dibenzode ethanol, vinyl acetate, acrylanite, acetdelyde	138	55,56,58,59
	DAP Construction Adhesive All Purpose (Blue Label)	28 fl oz	One (1)	Good	n-Hexane, petroleum distillate	132	61,62,63
	Counther Premier Mirror Mastic	10.3	One (1)	Good	xylene	122	64,65
	DAP "Pantry & Foam" Construction Adhesive (Blue Label)	10.3	One (1)	Good	Calcium carbonale, phthlate esters, crystallae silica, ethylene glycol, ammonia, formaldehyde ethyl acrylate, acrylonitrile, acetadolyte		66, 67, 68

APPENDIX C - NEW BUSINESS SOLUTIONS (NBS)
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
125 NEW SOURTH ROAD
HICKSVILLE, NEW YORK

Location #	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
NBS							
2 (cont'd)	DAP "Molding & Trim" Construction Adhesive (Purple Label)	10.3	One (1)	Good	Ethylene glycol, cacarbonale, ammonia, soda lime, borrisilicate glas	125	69,70,71
	Gunther Ultraboard Mirror Master	300 gal	One (1)	Good	Toluene, acetone	128	72,74
	PL 400 Subfloor & Deck Adhesive	10.2 fl oz	One (1)	Good	Methyl acetate, acetone, xylene	125	75,76,78
	Elmers Glue All - Multi-purpose	8 oz	Four (4)		Not listed	133	79
	Elmers Glue All - Multi-purpose	4 oz	One (1)		Not listed	133	79
	3M Super 77 Multi-Purpose Adhesive	16 oz	One (1)	No cap	See photos	144	71-4-14
	DAP Dry Dex Spackling Interior/Exterior	32 fl oz	One (1)	Good	Cacarbonate, ethylene glycol, mgal silicate & crystalline silica	202	80,81,82
	Deft Lacquer Sanding Seal	12 fl oz	One (1)	No cap	See photos	183	74-4-14,77
	Bondo Professional Gold Premium Body Filler	1 lb 14 oz	One (1)	Good	See photos	182	78-4-14,79-4-14,80-4-14
	Metal Can - no label except green in marker	8 oz	Two (2)	Taped closed	Not listed, see photo	157	81-4-14,82-4-14
	Windex Plus	1 gal	One (1)	Good		144	
	Bestine Solvent & Thinner by Union Rubber Inc (Trenton, NJ)	1 gal	One (1)	Good	Not listed, see photo		83-4-14,84-4-14,85-4-14
	Goof Off the Miracle Remover	1 gal	One (1)	Good	Acetone, Xylene	123	86-4-14,87-4-14
	Benjamin Moore Semi-Gloss Finish	124 fl oz	One (1)	Good (paint on outside of can)	Acrylic resin, propylene glycol, kaolin, raw	257	88-4-14,89-4-14,90-4-14
	Deft Lacquer Sanding Seal	12 oz	One (1)	Good	See photo	132	
	Fantastik Bleach	32 oz	One (1)				84,85
	Romans Universal Border Paste	16 oz	One (1)	Good	Not listed	133	86
	3M Scotch-Weld Instant Adhesive CA4	1 lb	One (1)	Good	Ethyl cyanocrylate, poly(methyl)meth	132	87,89,90
	Title Bond II Premium Wood Glue	16 oz	Two (2)		Not listed		91
	Husky Arc Tool Oil	237 ml	One (1)	Good	Not listed	832	92
	Deft Clear Wood Finish - Semi-gloss	12.25 fl oz	One (1)	No cap		806	93,94
	Shell Transmission Fluid ATF	1 qt	One (1)	looks old	Not listed	652	95
	Minwax Wood Putty	3.75	One (1)	Good	Not listed	650	96,97
	Worth Adhesive & Sealing Compound	70 ml	One (1)	Good		720	98,99,100
	Kampel Seamfil Solvent	8 fl oz	One (1)	Good	Not listed	662	101,103
	Kampel Seamfil No 946	1 fl oz	One (1)	Good	Acetone	638	104,105
	Kampel Seamfil No 937	1 fl oz	One (1)	Good	Acetone	650	106,107
	Kampel Seamfil No 941	1 fl oz	One (1)	Good	Acetone	642	110,111
	Kampel Seamfil No 936	1 fl oz	One (1)	Good	Acetone	592	112,113
	Kampel Seamfil No 902	1 fl oz	One (1)	Good	Acetone	602	114,115
	Kampel Seamfil No 940	1 fl oz	One (1)	Good	Acetone	623	116,117
	Kampel Seamfil No 944	1 fl oz	One (1)	Good	Acetone	633	118,119
	Kampel Seamfil No 945	1 fl oz	One (1)	Good	Acetone		120,121
	Blazer Brand Triple Refined Butane Gas	~ 8 oz	One (1)	Good	Butane Gas	646	124,125,126

APPENDIX C - NEW BUSINESS SOLUTIONS (NBS)
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
125 NEW SOURTH ROAD
HICKSVILLE, NEW YORK

Location #	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
NBS							
2 (cont'd)	Pacua Paint Thinner	1 gal	One (1)	Good		608	127
	Benjamin Moore Regal Acrylic Paint	31.5 oz	One (1)	Good	See photos	635	128,129
	Valspar Signature Semi-Gloss Finish	31.5 oz	One (1)	Good	See photos	662	130,132
	Minwax Wood Finish	32 oz	One (1)	New	See photos	629	133,134
	Deft Lacquer Sanding Seal	1 qt	One (1)	New	See photos	648	135,137
	Ace Royal Flat Accent Color 100% Acrylic Latex	29 fl oz	One (1)	Green paint on outside	See photos		138,139
	Benjamin Moore Eggshell Finish N319 lB Acrylic Paint	126 fl oz	Four (4)	Good		442	140,141
	Benjamin Moore Eggshell Finish Deep Base N319 3B Acrylic Paint	118 fl oz	One (1)	Paint on outside		579	142,146
	Benjamin Moore Eggshell Finish Medium Base N319 2B	124 fl oz	One (1)	Paint on outside		486	147,148
	Nazdar 188 with clean	1 gal	One (1)	Paint on outside (old)		420	149,150
	Ace Latex Enamel Black	1 gal	One (1)	Paint on outside		494	151,153
	Sherwood: Sherwood Dye Stain Dark Brown Pine	1.89 L (64 fl oz)	One (1)	Good		418	154,155
	O-LAR LPIC 4545 (handwritten)	1 gal	One (1)	Paint on outside		729	156,157,158
	Lowes Olympic 15-year Interior Semi-Gloss Latex	116 fl oz	One (1)	Paint on outside (lid taped)		620	160,161
	Trihlogy Tech-Lube	5 gal Bucket	One (1)	Good	No back label	306	165,167,168, 169, 170
	Parola Propane with Gas Grill	15 lb	One (1) empty		Propane	1552	189,190, 191,192
3	Oil	~120 ml	One (1)	Good	No label	2266	193
	Clear Plastic Containers Dispenser	500 ml	Four (4)	Good	No labels, rubbing alcohol	820	194,195
	Oil (Label smeared)	1 pint	One (1)	Almost empty		675	196,197, 198,199
	Valspar Plastic Paint	12 oz	One (1)	Good		610	200, 202
	Goo Gone Pro Power	32 fl oz	One (1)	Almost empty		745	203,204
	Krazy Glue All Purpose Gel	0.07 oz	One (1)	New		583	205,207
	S-L-X Denatured Alcohol by KleanStrip	1 qt	One (1)	Good		727	208,209
	Krylon Short Cuts	1 oz	One (1)	Good		671	210,211
	Loctite 545	0.34 oz	One (1)	Good		621	213,214,215
	Bernzomatic Propane Fuel Cylinder	14 oz		Old, no plastic top cap			216
	J-B Weld Epoxy Steel Resin	1 oz	One (1)	Good	Epoxy Resin	1332	217,218,219
	J-B Weld Hardener	1 oz	One (1)	Good		559	220,221
	Textron Cement for Plastic Model	18 ml	One (1)	Good		712	222,223
	Ace Gel 10	1 oz	One (1)	Old, holes in tube - tube is taped			227,230
	Dico Premium Buffing Composition	3.5 oz	One (1)	Good	Not listed	596	231,232
	Mobil Synthetic Motor Oil	4 qts	One (1)	Good		596	233,234
	Unlabeled White Bottle	12.5 ml	One (1)	Good	Rubbing Alcohol	596	235
	Kampel Seamfil No 913	1 fl oz	One (1)	Good			236,238

APPENDIX C - NEW BUSINESS SOLUTIONS (NBS)
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
125 NEW SOURTH ROAD
HICKSVILLE, NEW YORK

Location #	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
NBS							
3 (cont'd)	Wilsonat International 500 Roller Grade Contact Adhesive	5 gal	One (1)	Good	Toluene, Light Hydrotreated distillate, acetone, resin, polychloropane	596	250,251,261
	E-Z Fix H303 Glue Acrylic	5 gal	One (1)	Good			266, 268,270
4	CVS Hydrogen Peroxide	16 oz	One (1)	Good		88	239,240,243
5	Febreze	9.7 oz	Three (3)	Good		132	277,278,279, 280,281
	Listerine	250 ml	One (1)	Good		132	284,285, 287,288
	Lysol	19 oz	One (1)	Good		133	291,292,293
	CVS Hand Soap	8 oz	One (1)	Good		130	289,290
	Lysol Professional Toilet Cleaner	32 oz	One (1)	Good		132	294,295,296, 297,298
	SoftSoap Refill	1 gal	One (1)	Good		144	300,302
6	SoftSoap Refill	128 oz	One (1)	Good		125	329,330, 331,332
	SoftSoap	11.25 oz	One (1)	Good		125	282,283
	Febreze Air Freshener	9.7 oz	Three (3)	Good	No CFS	124	318, 319,320, 321,322
	Celeste Lav Spray						323
	Lysol Disinfectant Spray	19 oz	One (1)				325,326,327,328
7	Joy	90 fl oz	One (1)	Good			304,305
	Windex	32 oz	Two (2)	Good		124	306
	Mothers Car Wax www.mothers.com	16 oz	One (1)	Good	Petroleum Distillate	124	311,315
	Mothers Power Wax	16 oz	One (1)	Good	Petroleum Distillate	125	307,308,309
	HP Print Cartridge	Cartridge	6 cases	New		124	
8	Unlabeled Dispenser Plastic Bottle	1 ltr	One (1)	Good	Unknown Rubbing Alcohol	100	54
	Ace Royal Accent Semi-Gloss Acrylic Latex Enamel	3.43 L	One (1)	Good, paint on outside of can	Acrylic copolymer, ethylene glycol, ester alcohol, polyurethane resin	90	57,58
	Kobalt-Armtool Oil Item #2210110	8 oz	One (1)	Good	Not listed, see photo	92	249,262,263
	Kobalt Air Compressor Oil	16 fl oz	One (1)	Good	Not listed, see photo	50	61
	Cabot WaterBorne Polystain	1 qt	One (1)	Good	Polyurethane resin	51	59,60
	KleanStrip Lacquer Thinner	1 gal	One (1)	Good		51	62,63
	MinWax Wood Finish	32 fl oz	Two (2)	Good	Oil based, not listed	59	64,65
	Elmer Glue All	4 fl oz	One (1)	Good	Not listed	69	
	Fuchs Libritech: Air lube 10W/NR Airline Lubricant	4 fl oz	One (1)	Good	Not listed, see photo	69	66,185,186
	Benjamin Moore Advance Satin	931 ml	One (1)	Empty	Propylene Glycol	98	67,68
	Rustoleum Frosted Glass	11 oz	Three (3)	Almost Empty	Toluene & xylene	68	1,2,3
	MinWax Wood Finish	1 qt	One (1)	Paint on outside		1036	64,65,180,181, 182,184

Notes:

1. '-- = No photographs available.
2. Photoionization detector (PID) readings (i.e., approximate total organic vapor concentrations) were obtained using a ppbRAE.
3. ppb = parts per billion.
4. qt = quart
5. gal = gallon
6. oz = ounce
7. ml = milliliter
8. L = Liter
9. H = Height
10. fl oz = fluid ounce
11. * = Open container of glue nearby products while recording PID readings

APPENDIX C - PCF
PRODUCT INVENTORY

VAPOR INTRUSION INVESTIGATION REPORT
BAYER MATERIAL SCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location #	Product Description	Container Size (Units)	Quantity	Container Condition UO: Unopened OP: Opened	Chemical Ingredients	PID Reading (ppb)	Photo #
PCF							
1	409 Cleaner	1 qt	One (1)	Good	See photos	1678	1,2
	Sustainable Earth by Staples Multi-Purpose Cleaner	1 gal	One (1)	Open Top	See photos	1648	3,4,5

Notes:
1. '-- = No photographs available.
2. Photoionization detector (PID) readings (i.e., approximate total organic vapor concentrations) were obtained using a ppbRAE.
3. ppb = parts per billion.
4. qt = quart
5. gal = gallon

ARCADIS

Appendix D

Sub-Slab Vapor, Indoor Air, and Ambient Air Sampling Logs

Indoor/Ambient Air Sample Collection Log

Sample ID: AMB-42711

Client:	Bayer Material Science	**Date/Day:**	04/27/2011
Project:	Bayer Hicksville	**Sample Intake Height:**	~ 4' ALS
Location:	1 Empire Drive, Hicksville, NY	**Subcontractor:**	NA
Project #:	B0032305.0004.00003	**Miscellaneous Equipment:**	Forklifts
Sampler(s):	Daniel Zuck / Carey Healy		
Coordinates:	See Site Figure	**Time Start:**	0956
Outdoor/Indoor:	Outdoor	**Time Stop:**	1720

Instrument Readings:

Time	Canister Pressure (inches Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed/ Direction (mph) S/SE	Barometric Pressure(1) (inHg)	PID (ppb)
0956	-30	58.8	81.4	1.7	30.04	1026
1430	-14.6	64.0	81.8	0.0	---	0
1720	-6 (-6.02)	62.1	94.6	9.5	29.95	0

SUMMA Canister Information

Size (circle one): **1 L** **(6 L)**

Sample

Canister ID: 4922

Flow Controller ID: K349

General Observations/Notes:

Digital Initial Pressure: NA
Digital Final Pressure:-6.02
Photo #:1112
(1) Barometric pressure was collected from WeatherUnderground.com @ the Syosset Station Pressure at 953 = 30.04 inHg, pressure at 1741 = 29.95 inHg
Notes: Digital Pressure Readings are presented in parentheses

ARCADIS
Infrastructure, environment, facilities

Indoor/Ambient Air Sample Collection Log

Sample ID: AMB-42811

Client:	Bayer Material Science	**Date/Day:**	04/28/2011
Project:	Bayer Hicksville	**Sample Intake Height:**	~ 4' ALS
Location:	1 Empire Drive, Hicksville, NY	**Subcontractor:**	NA
Project #:	B0032305.0004.00003	**Miscellaneous Equipment:**	Forklifts
Sampler(s):	Daniel Zuck / Carey Healy		
Coordinates:	See Site Figure	**Time Start:**	0900
Outdoor/Indoor:	Outdoor (see figure)	**Time Stop:**	1730

Instrument Readings:

Time	Canister Pressure (inches Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed/ Direction (mph)	Barometric Pressure[(1)] (inHg)	PID (ppb)
0900	-29	59.1	100.0	5.1	29.28	Too foggy
1400	-15	60.8	97.2	7.0 – 19.5 mph	---	1086
1730	-4.5 (-3.59)	60.0	92.8	4-6	29.67	NA

SUMMA Canister Information

Size (circle one): **1 L** **(6 L)**

Sample

Canister ID: 4092

Flow Controller ID: K181

General Observations/Notes:

Digital Initial Pressure: NA

Digital Final Pressure: -3.59

Photo #:1125

(1) Barometric pressure was collected from WeatherUnderground.com @ the Syosset Station. Pressure at 853 =29.28 inHg, pressure at 1727 = 29.67 inHg

Notes: Digital Pressure Readings are presented in parentheses

Indoor/Ambient Air Sample Collection Log

Sample ID: AMB-[050511]

Client:	Bayer Material Science	**Date/Day:**	05/05/2011
Project:	Bayer Hicksville	**Sample Intake Height:**	~ 4' ALS
Location:	1 Empire Drive, Hicksville, NY	**Subcontractor:**	NA
Project #:	B0032305.0004.00003	**Miscellaneous Equipment:**	NA
Sampler(s):	P. Prezorski		
Coordinates:	See Site Figure	**Time Start:**	0910
Outdoor/Indoor:	Outdoor	**Time Stop:**	1715

Instrument Readings:

Time	Canister Pressure (inches Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed/ Direction (mph)	Barometric Pressure[(1)] (inHg)	PID ~~(ppb)~~ppm
0910	-30	54.2	55.7	16 / N	29.92	0
1422	-17	64.0	31.4	9 / N	---	
1536	-12	---	---	---	---	0
1715	-7	67.5	22.7	11 / N	29.84	0

SUMMA Canister Information

Size (circle one): **1 L** **(6 L)**

Sample

Canister ID: 4546

Flow Controller ID: 2993

General Observations/Notes:

Digital Initial Pressure: NA

Digital Final Pressure: -5.48

Photo #: 4, 5, 6, 8, 9

(1) Barometric pressure was collected from WeatherUnderground.com @ the Syosset Station. Pressure at 853 =29.96 inHg, pressure at 16.53 =29.88 inHg

Notes:
Barometric pressure readings were collected from handheld weather unit.
Digital Pressure Readings are presented in parentheses.

Indoor/Ambient Air Sample Collection Log

Sample ID: AMB-[050511]

Client:	Bayer Material Science	**Date/Day:**	05/05/2011
Project:	Bayer Hicksville	**Sample Intake Height:**	~ 4' ALS
Location:	1 Empire Drive, Hicksville, NY	**Subcontractor:**	NA
Project #:	B0032305.0004.00003	**Miscellaneous Equipment:**	NA
Sampler(s):	P. Prezorski		
Coordinates:	See Site Figure	**Time Start:**	0910
Outdoor/Indoor:	Outdoor	**Time Stop:**	1715

Instrument Readings:

Time	Canister Pressure (inches Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed/ Direction (mph)	Barometric Pressure[(1)] (inHg)	PID ~~(ppb)~~ppm
0910	-30	54.2	55.7	16 / N	29.92	0
1422	-17	64.0	31.4	9 / N	---	
1536	-12	---	---	---	---	0
1715	-7	67.5	22.7	11 / N	29.84	0

SUMMA Canister Information

Size (circle one): **1 L** **(6 L)**

Sample

Canister ID: 4546

Flow Controller ID: 2993

General Observations/Notes:

Digital Initial Pressure: NA

Digital Final Pressure: -5.48

Photo #: 4, 5, 6, 8, 9

(1) Barometric pressure was collected from WeatherUnderground.com @ the Syosset Station. Pressure at 853 =29.96 inHg, pressure at 16.53 =29.88 inHg

Notes:
Barometric pressure readings were collected from handheld weather unit.
Digital Pressure Readings are presented in parentheses.

ARCADIS
Infrastructure, environment, facilities

Indoor/Ambient Air Sample Collection Log

Sample ID: IA-1

Client:	Bayer Material Science	**Date/Day:**	04/28/2011
Project:	Bayer Hicksville	**Sample Intake Height:**	~ 4' ALS
Location:	1 Empire Drive, Hicksville, NY	**Subcontractor:**	NA
Project #:	B0032305.0004.00003	**Miscellaneous Equipment:**	Forklifts
Sampler(s):	Daniel Zuck / Care Healy		
Coordinates:	See Site Figure	**Time Start:**	1100
Outdoor/Indoor:	Indoor	**Time Stop:**	1810

Instrument Readings:

Time	Canister Pressure (inches Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed/ Direction (mph)	Barometric Pressure[(1)] (inHg)	PID (ppb)
1100	-29.25	64.6	80.6	0	29.72	36
1345	-20.25	65.3	80.4	0	---	1153
1500	-16	65.7	82.6	0	---	873
1810	-5.75 (-5.19)	65.5	80.0	0	29.66	63

SUMMA Canister Information

Size (circle one): **1 L** **(6 L)**

Sample

Canister ID: 5045

Flow Controller ID: K258

General Observations/Notes:

Digital Initial Pressure: NA
Digital Final Pressure: -5.19
Photo #: 1123
(1) Barometric pressure was collected from WeatherUnderground.com @ the Syosset Station. Pressure at 1053 =29.72 inHg, pressure at 1803 = 29.66 inHg
Notes: Digital Pressure Readings are presented in parentheses

Indoor/Ambient Air Sample Collection Log

Sample ID: IA-2

Client:	Bayer Material Science	**Date/Day:**	04/28/2011
Project:	Bayer Hicksville	**Sample Intake Height:**	~ 4' ALS
Location:	1 Empire Drive, Hicksville, NY	**Subcontractor:**	NA
Project #:	B0032305.0004.00003	**Miscellaneous Equipment:**	Forklifts
Sampler(s):	Daniel Zuck / Care Healy		
Coordinates:	See Site Figure	**Time Start:**	1005
Outdoor/Indoor:	Indoor	**Time Stop:**	1650

Instrument Readings:

Time	Canister Pressure (inches Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed/ Direction (mph)	Barometric Pressure(1) (inHg)	PID (ppb)
1005	-30	65.4	77.8	0	29.74	1064
1305	-19	66.7	77.1	0	---	730
1650	-6 (-7.63)	66.3	77.4	0	29.67	1231

SUMMA Canister Information

Size (circle one): **1 L** **(6 L)**

Sample

Canister ID: 2670

Flow Controller ID: K225

General Observations/Notes:

Digital Initial Pressure: NA
Digital Final Pressure: -7.63
Photo #: 1120
(1) Barometric pressure was collected from WeatherUnderground.com @ the Syosset Station. Pressure at 853 = 29.74 inHg, pressure at 1653= 29.67 inHg
Notes: Digital Pressure Readings are presented in parentheses

Indoor/Ambient Air Sample Collection Log

Sample ID: IA-3

Client:	Bayer Material Science	**Date/Day:**	04/27/2011
Project:	Bayer Hicksville	**Sample Intake Height:**	~ 4' ALS
Location:	1 Empire Drive, Hicksville, NY	**Subcontractor:**	NA
Project #:	B0032305.0004.00003	**Miscellaneous Equipment:**	Forklifts
Sampler(s):	Daniel Zuck / Care Healy		
Coordinates:	See Site Figure	**Time Start:**	1200
Outdoor/Indoor:	Indoor	**Time Stop:**	1922

Instrument Readings:

Time	Canister Pressure (inches Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed/ Direction (mph)	Barometric Pressure[(1)] (inHg)	PID (ppb)
1200	-30	63.5	81.1	0	30.02	145
1430	-21.5	65.5	84.0	0	---	690
1822	-9.5	63.7	87.0	0	---	52
1922	-6 (-5.21)	66.9	77.3	0	29.92	298

SUMMA Canister Information

Size (circle one): **1 L** **(6 L)**

Sample

Canister ID: 4569

Flow Controller ID: K369

General Observations/Notes:

Digital Initial Pressure: NA
Digital Final Pressure: -5.21
Photo #: 1114
(1) Barometric pressure was collected from WeatherUnderground.com @ the Syosset Station. Pressure at 1153 =30.02 inHg, pressure at 1928= 29.92 inHg
Notes: Digital Pressure Readings are presented in parentheses

ARCADIS
Infrastructure, environment, facilities

Indoor/Ambient Air Sample Collection Log

Sample ID: IA-4

Client:	Bayer Material Science	**Date/Day:**	04/27/2011
Project:	Bayer Hicksville	**Sample Intake Height:**	~ 4' ALS
Location:	1 Empire Drive, Hicksville, NY	**Subcontractor:**	NA
Project #:	B0032305.0004.00003	**Miscellaneous Equipment:**	Forklifts
Sampler(s):	Daniel Zuck / Care Healy		
Coordinates:	See Site Figure	**Time Start:**	0950
Outdoor/Indoor:	Indoor	**Time Stop:**	1710

Instrument Readings:

Time	Canister Pressure (inches Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed/ Direction (mph)	Barometric Pressure[(1)] (inHg)	PID (ppb)
0950	-29	63.1	83.0	0	30.04	34
1430	-13.5	64.4	85.9	0	---	20
1710	-4.75 (-3.42)	63.4	88.2	0	29.95	0

SUMMA Canister Information

Size (circle one): **1 L** **(6 L)**

Sample

Canister ID: 4235

Flow Controller ID: K368

General Observations/Notes:

Digital Initial Pressure: NA

Digital Final Pressure: -3.42

Photo #: 1113

(1) Barometric pressure was collected from WeatherUnderground.com @ the Syosset Station. Pressure at 953 =30.04 inHg, pressure at 1708 = 29.95 inHg

Notes: Digital Pressure Readings are presented in parentheses

ARCADIS
Infrastructure, environment, facilities

Indoor/Ambient Air Sample Collection Log

Sample ID: IA-5 / DUP-42711

Client:	Bayer Material Science	**Date/Day:**	04/27/2011
Project:	Bayer Hicksville	**Sample Intake Height:**	~ 4' ALS
Location:	1 Empire Drive, Hicksville, NY	**Subcontractor:**	NA
Project #:	B0032305.0004.00003	**Miscellaneous Equipment:**	Forklifts
Sampler(s):	Daniel Zuck / Care Healy		
Coordinates:	See Site Figure	**Time Start:**	1325
Outdoor/Indoor:	Indoor	**Time Stop:**	2040

Instrument Readings:

Time	Canister Pressure (inches Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed/ Direction (mph)	Barometric Pressure[(1)] (inHg)	PID (ppb)
1325 (IA5)	-30	69.7	63.5	0	30.02	592 → 786
1325 (DUP)	-29.5	69.7	63.5	0	---	592 → 786
1430 (IA5)	-27.5	67.4	75.8	0	---	250
1430 (DUP)	-26.5	67.4	75.8	0	---	250
1830 (IA5)	-14.5	66.4	77.7	0	---	463
1830 (DUP)	-13.5	66.4	77.7	0	---	463
2040 (IA5)	-6 (-4.55)	71.6	61.2	0	---	444
2040 (DUP)	-5.5 (-6.2)	71.6	61.2	0	29.93	444

SUMMA Canister Information

Size (circle one): **1 L** **(6 L)**

Sample / DUP

Canister ID: 3029 / 5074

Flow Controller ID: K130 / K307

General Observations/Notes:

Digital Initial Pressure: NA

Digital Final Pressure: -4.56 / -6.2

Photo #: 1116

(1) Barometric pressure was collected from WeatherUnderground.com @ the Syosset Station. Pressure at 1253 =30.02 inHg, pressure at 2053= 29.93 inHg

Notes: Digital Pressure Readings are presented in parentheses

ARCADIS
Infrastructure, environment, facilities

Indoor/Ambient Air Sample Collection Log

Sample ID: IA-6

Client:	Bayer Material Science	**Date/Day:**	04/27/2011
Project:	Bayer Hicksville	**Sample Intake Height:**	~ 4' ALS
Location:	1 Empire Drive, Hicksville, NY	**Subcontractor:**	NA
Project #:	B0032305.0004.00003	**Miscellaneous Equipment:**	Forklifts
Sampler(s):	Daniel Zuck / Care Healy		
Coordinates:	See Site Figure	**Time Start:**	1505
Outdoor/Indoor:	Indoor	**Time Stop:**	2315

Instrument Readings:

Time	Canister Pressure (inches Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed/ Direction (mph)	Barometric Pressure[(1)] (inHg)	PID (ppb)
1505	-32	64.7	80.0	0	29.98	53
1845	-19.75	65.6	82.4	0	---	55
2035	-14.00	---	---	0	---	
2315	-5.5 (-3.9)	65.0	90.1	0	29.92	0

SUMMA Canister Information

Size (circle one): **1 L** **(6 L)**

Sample

Canister ID: 4356

Flow Controller ID: K359

General Observations/Notes:

Digital Initial Pressure: NA
Digital Final Pressure: -3.9
Photo #: 1117
(1) Barometric pressure was collected from WeatherUnderground.com @ the Syosset Station. Pressure at 1515 =29.98 inHg, pressure at 2253 = 29.92 inHg
Notes: Digital Pressure Readings are presented in parentheses

Indoor/Ambient Air Sample Collection Log

Sample ID: IA-7 [050511]

Client:	Bayer Material Science	**Date/Day:**	05/05/2011
Project:	Bayer Hicksville	**Sample Intake Height:**	~ 4' ALS
Location:	1 Empire Drive, Hicksville, NY	**Subcontractor:**	NA
Project #:	B0032305.0004.00003	**Miscellaneous Equipment:**	NA
Sampler(s):	P. Prezorski		
Coordinates:	See Site Figure	**Time Start:**	0857
Outdoor/Indoor:	Indoor	**Time Stop:**	1553

Instrument Readings: Interior

Time	Canister Pressure (inches Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed/ Direction (mph)	Barometric Pressure[(1)] (inHg)	PID ~~(ppb)~~ppm
0857	-26	63.1	50.7	NA	29.94	0
1407	-12	66.7	42.3	NA	29.86	NA
1553	-7	67.8	41.4	NA	29.85	0

SUMMA Canister Information

Size (circle one): **1 L** **(6 L)**

Sample

Canister ID: 3381

Flow Controller ID: 4766

General Observations/Notes:

Digital Initial Pressure: -29.66

Digital Final Pressure: -8.61

Photo #: 2, 3, 10 & 11

(1) Barometric pressure was collected from WeatherUnderground.com @ the Syosset Station. Pressure at 853 =29.96 inHg, pressure at 1553 =29.87 inHg

Notes: Set-up:
All doors closed. Handheld weather unit used.
Digital Pressure Readings are presented in parentheses

ARCADIS
Infrastructure, environment, facilities

Indoor/Ambient Air Sample Collection Log

Sample ID: IA-8 [050511]/DUP-050511

Client:	Bayer Material Science	**Date/Day:**	05/05/2011
Project:	Bayer Hicksville	**Sample Intake Height:**	~ 4' ALS
Location:	1 Empire Drive, Hicksville, NY	**Subcontractor:**	NA
Project #:	B0032305.0004.00003	**Miscellaneous Equipment:**	NA
Sampler(s):	P. Prezorski		
Coordinates:	See Site Figure	**Time Start:**	0840
Outdoor/Indoor:	Indoor	**Time Stop:**	1620

Instrument Readings: Interior

Time	Canister Pressure (inches Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed/ Direction (mph)	Barometric Pressure[(1)] (inHg)	PID ~~(ppb)~~ppm
0840 (IA8)	-30	64.3	43.9	NA	29.96	0
0840 (DUP)	-27	64.3	43.9	NA	29.68	0
1411 (IA8)	-14	70.0	28.6	NA	29.86	NA
1411 (DUP)	-8	70.0	28.6	NA	29.86	NA
1620 (IA8)	-6	69.2	31.3	NA	29.88	0
1620 (DUP)	-7	68.6	33.8	NA	29.62	NA

SUMMA Canister Information

Size (circle one): **1 L** **(6 L)**

Sample / DUP

Canister ID: 5122 / 2985

Flow Controller ID: 2811 / 2616

General Observations/Notes:

Digital Initial Pressure: -29.77 / -29.34

Digital Final Pressure: -6.36 / -6.98

Photo #: 1, 2 &7

(1) Barometric pressure was collected from WeatherUnderground.com @ the Syosset Station. Pressure at 853 =29.96 inHg, pressure at 1653 =29.88 inHg

Notes:
Set-up: All doors closed, no activity in space.
Midpoint Check: Roll up door open, activity minimal in room (cutting paper product), no odor in room
Final: Roll up door open, no odor, no activity in room.
Digital Pressure Readings are presented in parentheses

Soil Gas Sample Collection Log

Sample ID: SSV-1

Client:	Bayer Material Science	**Date/Day:**	4/28/2011
Project:	Bayer Hicksville	**Weather:**	Lt. Rain
Location:	1 Empire Drive, Hicksville, NY	**Temperature:**	64.6°F
Project #:	B0032305.0004.00003	**Wind Speed/Direction:**	NA
Samplers:	Daniel Zuck/ Carey Healy	**Subcontractor:**	NA
Logged By:	Daniel Zuck	**Equipment:**	Hammer Drill/ Vacuum
Background PID Ambient Air Reading:	36 PPB	**Moisture Content of Sampling Zone (circle one):**	Dry / (Moist)
Sampling Depth:	~ 9" —›11" BGS		
Probe (circle one):	Permanent / (Temporary)	**Approximate Volume of Sampling Train::**	30 mL (3' of ¼" ID tubing)
Time of Collection:	Start: 1100 Finish: 1810	**Approximate Purge Volume:**	(30ml*3v)=90ml

Nearby Groundwater Monitoring Wells/Water Levels:

Well ID	Depth to Groundwater (feet)
NA	NA

SUMMA Canister Information

Size (circle one): 1 L (6 L)

SSV-1

Canister ID: 5161

Flow Controller ID: K108

Tracer Gas Information (if applicable)

Tracer Gas: Helium

Canister Pressure (inches Hg):		
Reported By Laboratory	**Measured Prior to Sample Collection**	**Measured Following Sample Collection**
-29.4	-28.5	(-5.13) -6.0

Tracer Gas Concentration (if applicable):				
Measured from Soil Vapor Tubing		**Measured in 'Concentrated' Area**		
Post Purge	**Post Sample**	**Prior to Purging**	**Post Purging**	**Post Sampling**
75 ppm	1700 dropping to 0 ppm	84.6 %	73.6%	24.0%

General Observations/Notes:

Photo ID: 1123	54 ppb reading on the PID following sample
	Collection from soil vapor tubing.
3.75 Hr Pressure@ 1500 : -15.5	
Digital Pressure Readings are presented in parentheses	Baseline 63 ppb
Helium IA Baseline 75→ 100 ppm	Diff Pressure +0.017

Approximating One-Well Volume (for purging):
Each foot of ¼-inch tubing will have a volume of approximately 10 mL.

Soil Gas Sample Collection Log

Sample ID: SSV- 2 / DUP – 042811

Client:	Bayer Material Science	**Date/Day:**	4/28/2011
Project:	Bayer Hicksville	**Weather:**	Foggy
Location:	1 Empire Drive, Hicksville, NY	**Temperature:**	65.4°F
Project #:	B0032305.0004.00003	**Wind Speed/Direction:**	NA
Samplers:	Daniel Zuck/ Carey Healy	**Subcontractor:**	NA
Logged By:	Daniel Zuck	**Equipment:**	Hammer Drill/ Vacuum
Background PID Ambient Air Reading:	1064 PPB	**Moisture Content of Sampling Zone (circle one):**	Dry / (Moist)
Sampling Depth:	~8 ” —› 10” BGS		
Probe (circle one):	Permanent / (Temporary)	**Approximate Volume of Sampling Train::**	30 mL (3’ of ¼” ID tubing)
Time of Collection:	Start: 1005 / 1005 Finish: 1735/1735	**Approximate Purge Volume:**	(30ml*3v)=90ml

Nearby Groundwater Monitoring Wells/Water Levels:

Well ID	Depth to Groundwater (feet)
NA	NA

SUMMA Canister Information

Size (circle one): 1 L (6 L)

SSV-2/ DUP – 042811

Canister ID: 5095/ 4542

Flow Controller ID: K150/ K408

Tracer Gas Information (if applicable)

Tracer Gas: Helium

Canister Pressure (inches Hg):

Reported By Laboratory	Measured Prior to Sample Collection	Measured Following Sample Collection
-29.4/ -29.4	-30/ -30	(-6.12)-6.75 / -5 (NA)

Tracer Gas Concentration (if applicable):

Measured from Soil Vapor Tubing		Measured in ‘Concentrated’ Area		
Post Purge	**Post Sample**	**Prior to Purging**	**Post Purging**	**Post Sampling**
0 ppm	0 ppm	86.1%	72.3%	5.2%

General Observations/Notes:

Photo ID: 1120	1435 ppb reading on the PID following sample
	Collection from soil vapor tubing.
3 Hr Pressure@ 1305: -21/-20	
Digital Pressure Readings are presented in parentheses	Baseline 131 ppb@1750
Differential Pressure = +0.034	NA = threads bad – don’t want to compromise sample

Approximating One-Well Volume (for purging):
Each foot of ¼-inch tubing will have a volume of approximately 10 mL.

Soil Gas Sample Collection Log

Sample ID: SSV-3

Client:	Bayer Material Science	**Date/Day:**	4/27/2011
Project:	Bayer Hicksville	**Weather:**	Cloudy
Location:	1 Empire Drive, Hicksville, NY	**Temperature:**	63.5°F
Project #:	B0032305.0004.00003	**Wind Speed/Direction:**	NA
Samplers:	Daniel Zuck/ Carey Healy	**Subcontractor:**	NA
Logged By:	Daniel Zuck	**Equipment:**	Hammer Drill/ Vacuum
Background PID Ambient Air Reading:	145 PPB	**Moisture Content of Sampling Zone (circle one):**	Dry / (Moist)
Sampling Depth:	~ 8" —›10" BGS		
Probe (circle one):	Permanent / (Temporary)	**Approximate Volume of Sampling Train::**	30 mL (3' of ¼" ID tubing)
Time of Collection:	Start: 1200 Finish: 1915	**Approximate Purge Volume:**	(30ml*3v)=90ml

Nearby Groundwater Monitoring Wells/Water Levels:

Well ID	Depth to Groundwater (feet)
NA	NA

SUMMA Canister Information

Size (circle one): 1 L (6 L)

SSV-3

Canister ID: 2748

Flow Controller ID: K343

Tracer Gas Information (if applicable)

Tracer Gas: Helium

Canister Pressure (inches Hg):

Reported By Laboratory	Measured Prior to Sample Collection	Measured Following Sample Collection
-29.4	-28.75	(-3.99) / -5.5

Tracer Gas Concentration (if applicable):

Measured from Soil Vapor Tubing		Measured in 'Concentrated' Area		
Post Purge	**Post Sample**	**Prior to Purging**	**Post Purging**	**Post Sampling**
1625 (dropping) ppm	0 ppm	50.4 %	45.5%	34.1%

General Observations/Notes:

Photo ID: 1114	3688 ppb reading on the PID following sample
Canister pressure @ -20.5 @1430	Collection from soil vapor tubing.
6.5 Hr Pressure@ 1822: -8.25	
Digital Pressure Readings are presented in parentheses	
Slab Pressure Difference +0.005	

Approximating One-Well Volume (for purging):
Each foot of ¼-inch tubing will have a volume of approximately 10 mL.

Soil Gas Sample Collection Log

Sample ID: SSV-4

Client:	Bayer Material Science	**Date/Day:**	4/27/2011
Project:	Bayer Hicksville	**Weather:**	Partly Cloudy
Location:	1 Empire Drive, Hicksville, NY	**Temperature:**	63.3°F
Project #:	B0032305.0004.00003	**Wind Speed/Direction:**	NA
Samplers:	Daniel Zuck/ Carey Healy	**Subcontractor:**	NA
Logged By:	Daniel Zuck	**Equipment:**	Hammer Drill/ Vacuum
Background PID Ambient Air Reading:	34 PPB	**Moisture Content of Sampling Zone (circle one):**	Dry / (Moist)
Sampling Depth:	~ 8" —›10" BGS		
Probe (circle one):	Permanent / (Temporary)	**Approximate Volume of Sampling Train::**	30 mL (3' of ¼" ID tubing)
Time of Collection:	Start: 1015 Finish: 1730	**Approximate Purge Volume:**	(30ml*3v)=90ml

Nearby Groundwater Monitoring Wells/Water Levels:

Well ID	Depth to Groundwater (feet)
NA	NA

SUMMA Canister Information

Size (circle one): 1 L (6 L)

SSV-4

Canister ID: 3150

Flow Controller ID: K469

Tracer Gas Information (if applicable)

Tracer Gas: Helium

Canister Pressure (inches Hg):

Reported By Laboratory	Measured Prior to Sample Collection	Measured Following Sample Collection
-29.4	-29.75	(-6.07) / -6.5

Tracer Gas Concentration (if applicable):

Measured from Soil Vapor Tubing		Measured in 'Concentrated' Area		
Post Purge	**Post Sample**	**Prior to Purging**	**Post Purging**	**Post Sampling**
0 ppm	0 ppm	73.5 %	48.7%	8.8%

General Observations/Notes:

Photo ID: 1113	721 ppb reading on the PID following sample
Canister pressure @ -16.5 @1430	Collection from soil vapor tubing.
Digital Pressure Readings are presented in parentheses	
Differential Pressure -0.005	

Approximating One-Well Volume (for purging):
Each foot of ¼-inch tubing will have a volume of approximately 10 mL.

Soil Gas Sample Collection Log

Sample ID: SSV-5

Client:	Bayer Material Science	**Date/Day:**	4/27/2011
Project:	Bayer Hicksville	**Weather:**	Cloudy
Location:	1 Empire Drive, Hicksville, NY	**Temperature:**	69.7°F
Project #:	B0032305.0004.00003	**Wind Speed/Direction:**	NA
Samplers:	Daniel Zuck/ Carey Healy	**Subcontractor:**	NA
Logged By:	Daniel Zuck	**Equipment:**	Hammer Drill/ Vacuum
Background PID Ambient Air Reading:	592 →786 PPB	**Moisture Content of Sampling Zone (circle one):**	Dry / (Moist)
Sampling Depth:	~ 8" —›10" BGS		
Probe (circle one):	Permanent / (Temporary)	**Approximate Volume of Sampling Train::**	30 mL (3' of ¼" ID tubing)
Time of Collection:	Start: 1325 Finish: 2100	**Approximate Purge Volume:**	(30ml*3v)=90ml

Nearby Groundwater Monitoring Wells/Water Levels:

Well ID	Depth to Groundwater (feet)
NA	NA

SUMMA Canister Information

Size (circle one): 1 L (6 L)

SSV-5

Canister ID: 4334

Flow Controller ID: K477

Tracer Gas Information (if applicable)

Tracer Gas: NA

Canister Pressure (inches Hg):

Reported By Laboratory	Measured Prior to Sample Collection	Measured Following Sample Collection
-29.4	-30	(-4.55) / -6

Tracer Gas Concentration (if applicable):

Measured from Soil Vapor Tubing		Measured in 'Concentrated' Area		
Post Purge	**Post Sample**	**Prior to Purging**	**Post Purging**	**Post Sampling**
NA	NA	NA %	NA %	NA %

General Observations/Notes:

Photo ID: 1115	6795 ppb reading on the PID following sample
Canister pressure @ -26.5 @1430	Collection from soil vapor tubing.
5 Hr Pressure @ 1830: -14	
Digital Pressure Readings are presented in parentheses	
Differential Pressure -0.006 → -0.008	

Approximating One-Well Volume (for purging):
Each foot of ¼-inch tubing will have a volume of approximately 10 mL.

Soil Gas Sample Collection Log

Sample ID: SSV-6

Client:	Bayer Material Science	**Date/Day:**	4/28/2011
Project:	Bayer Hicksville	**Weather:**	Foggy
Location:	1 Empire Drive, Hicksville, NY	**Temperature:**	65°F
Project #:	B0032305.0004.00003	**Wind Speed/Direction:**	NA
Samplers:	Daniel Zuck/ Carey Healy	**Subcontractor:**	NA
Logged By:	Daniel Zuck	**Equipment:**	Hammer Drill/ Vacuum
Background PID Ambient Air Reading:	PPB	**Moisture Content of Sampling Zone (circle one):**	Dry / (Moist)
Sampling Depth:	~ 9" —›11" BGS		
Probe (circle one):	Permanent / (Temporary)	**Approximate Volume of Sampling Train::**	30 mL (3' of ¼" ID tubing)
Time of Collection:	Start: 2338 04/27/11 Finish: 0700 04/28/11	**Approximate Purge Volume:**	(30ml*3v)=90ml

Nearby Groundwater Monitoring Wells/Water Levels:

Well ID	Depth to Groundwater (feet)
NA	NA

SUMMA Canister Information

Size (circle one): 1 L (6 L)

SSV-6

Canister ID: 3669

Flow Controller ID: K281

Tracer Gas Information (if applicable)

Tracer Gas: Helium

Canister Pressure (inches Hg):

Reported By Laboratory	Measured Prior to Sample Collection	Measured Following Sample Collection
-29.4	-30	(-6.03) / -6

Tracer Gas Concentration (if applicable):

Measured from Soil Vapor Tubing		Measured in 'Concentrated' Area		
Post Purge	**Post Sample**	**Prior to Purging**	**Post Purging**	**Post Sampling**
0 ppm	900 (dropping) ppm	82.9%	75.8%	14.7%

General Observations/Notes:

Photo ID: 1117	423 ppb reading on the PID following sample Collection from soil vapor tubing.
Digital Pressure Readings are presented in parentheses	
Differential Pressure +0.021	

Approximating One-Well Volume (for purging):
Each foot of ¼-inch tubing will have a volume of approximately 10 mL.

Soil Gas Sample Collection Log

Sample ID: SSV-7

Client:	Bayer Material Science	**Date/Day:**	4/28/2011
Project:	Bayer Hicksville	**Weather:**	Light Rain
Location:	1 Empire Drive, Hicksville, NY	**Temperature:**	65.6°F
Project #:	B0032305.0004.00003	**Wind Speed/Direction:**	NA
Samplers:	Daniel Zuck/ Carey Healy	**Subcontractor:**	NA
Logged By:	Daniel Zuck	**Equipment:**	Hammer Drill/ Vacuum
Background PID Ambient Air Reading:	0 PPB	**Moisture Content of Sampling Zone (circle one):**	Dry / (Moist)
Sampling Depth:	~ 8" —›10" BGS		
Probe (circle one):	Permanent / (Temporary)	**Approximate Volume of Sampling Train::**	30 mL (3' of ¼" ID tubing)
Time of Collection:	Start: 1120 Finish: 2000	**Approximate Purge Volume:**	(30ml*3v)=90ml

Nearby Groundwater Monitoring Wells/Water Levels:

Well ID	Depth to Groundwater (feet)
NA	NA

SUMMA Canister Information

Size (circle one): 1 L (6 L)

SSV-7

Canister ID: 3257

Flow Controller ID: K405

Tracer Gas Information (if applicable)

Tracer Gas: Helium

Canister Pressure (inches Hg):

Reported By Laboratory	Measured Prior to Sample Collection	Measured Following Sample Collection
-29.4	-32	(-5.3) / -6.0

Tracer Gas Concentration (if applicable):

Measured from Soil Vapor Tubing		Measured in 'Concentrated' Area		
Post Purge	**Post Sample**	**Prior to Purging**	**Post Purging**	**Post Sampling**
0 ppm	100 ppm	82.1%	78.9%	54.0%

General Observations/Notes:

Photo ID: 1124	1023 ppb reading on the PID following sample
	Collection from soil vapor tubing.
Digital Pressure Readings are presented in parentheses	Final Baseline 43 ppb
Differential Pressure -0.014	

Approximating One-Well Volume (for purging):
Each foot of ¼-inch tubing will have a volume of approximately 10 mL.

Soil Gas Sample Collection Log

Sample ID: SSV-8

Client:	Bayer Material Science	**Date/Day:**	4/28/2011
Project:	Bayer Hicksville	**Weather:**	Foggy
Location:	1 Empire Drive, Hicksville, NY	**Temperature:**	65.3°F
Project #:	B0032305.0004.00003	**Wind Speed/Direction:**	NA
Samplers:	Daniel Zuck/ Carey Healy	**Subcontractor:**	NA
Logged By:	Daniel Zuck	**Equipment:**	Hammer Drill/ Vacuum
Background PID Ambient Air Reading:	1523 PPB	**Moisture Content of Sampling Zone (circle one):**	Dry / (Moist)
Sampling Depth:	~ 8" —›10" BGS		
Probe (circle one):	Permanent / (Temporary)	**Approximate Volume of Sampling Train::**	30 mL (3' of ¼" ID tubing)
Time of Collection:	Start: 1048 Finish:1840	**Approximate Purge Volume:**	(30ml*3v)=90ml

Nearby Groundwater Monitoring Wells/Water Levels:

Well ID	Depth to Groundwater (feet)
NA	NA

SUMMA Canister Information

Size (circle one): 1 L (6 L)

SSV-8

Canister ID: 2779

Flow Controller ID: K263

Tracer Gas Information (if applicable)

Tracer Gas: Helium

Canister Pressure (inches Hg):		
Reported By Laboratory	**Measured Prior to Sample Collection**	**Measured Following Sample Collection**
-29.4	-30	(-4.42) / -5.0

Tracer Gas Concentration (if applicable):				
Measured from Soil Vapor Tubing		**Measured in 'Concentrated' Area**		
Post Purge	**Post Sample**	**Prior to Purging**	**Post Purging**	**Post Sampling**
150 ppm	300 ppm	80.1%	77.8%	10.0%

General Observations/Notes:

Photo ID: 1121	57 ppb reading on the PID following sample
	Collection from soil vapor tubing.
4 Hr Pressure @ 1500: -16.5	
Digital Pressure Readings are presented in parentheses	Baseline 40 ppb
	Differential Pressure +0.008

Approximating One-Well Volume (for purging):
Each foot of ¼-inch tubing will have a volume of approximately 10 mL.

ARCADIS

Appendix E

Photographs of Sampling Activities

APPENDIX E
PHOTOGRAPHS OF SAMPLING ACTIVITIES
April 27 & 28, 2011
BAYER MATERIAL SCIENCE LLC
HICKSVILLE, NEW YORK

Photo for SSV-1 and IA-1
Shows setup for collecting a sample using a tracer gas in an enclosed space.

Photo for SSV-2, DUP-042811 and IA-2
Shows setup for collecting a duplicate sample using a tracer gas in an enclosed space.

APPENDIX E
PHOTOGRAPHS OF SAMPLING ACTIVITIES
April 27 & 28, 2011
BAYER MATERIAL SCIENCE LLC
HICKSVILLE, NEW YORK

Photo for SSV-3 and IA-3
Shows setup for collecting a sample using a tracer gas in an enclosed space.

Photo for SSV-4 and IA-4
Shows setup following sample collection.

APPENDIX E
PHOTOGRAPHS OF SAMPLING ACTIVITIES
April 27 & 28, 2011
BAYER MATERIAL SCIENCE LLC
HICKSVILLE, NEW YORK

Photo for SSV-5

Shows setup following sample collection.

Photo for IA-5 and DUP-042711
Shows setup for collecting a sample.

APPENDIX E
PHOTOGRAPHS OF SAMPLING ACTIVITIES
April 27 & 28, 2011
BAYER MATERIAL SCIENCE LLC
HICKSVILLE, NEW YORK

Photo for SSV-6 and IA-6
Shows setup for collecting a sample using a tracer gas in an enclosed space.

Photo for SSV-7 and IA-7
Shows setup for collecting a sample using a tracer gas in an enclosed space.

APPENDIX E
PHOTOGRAPHS OF SAMPLING ACTIVITIES
April 27 & 28, 2011
BAYER MATERIAL SCIENCE LLC
HICKSVILLE, NEW YORK

IA-7 [050511]
Shows setup for collecting indoor air sample.

Photo for SSV-8 and IA-8
Shows setup for collecting a sample using a tracer gas in an enclosed space.

APPENDIX E
PHOTOGRAPHS OF SAMPLING ACTIVITIES
April 27 & 28, 2011
BAYER MATERIAL SCIENCE LLC
HICKSVILLE, NEW YORK

IA-8 [050511] & DUP-050511
Shows setup for collecting indoor air/duplicate sample.

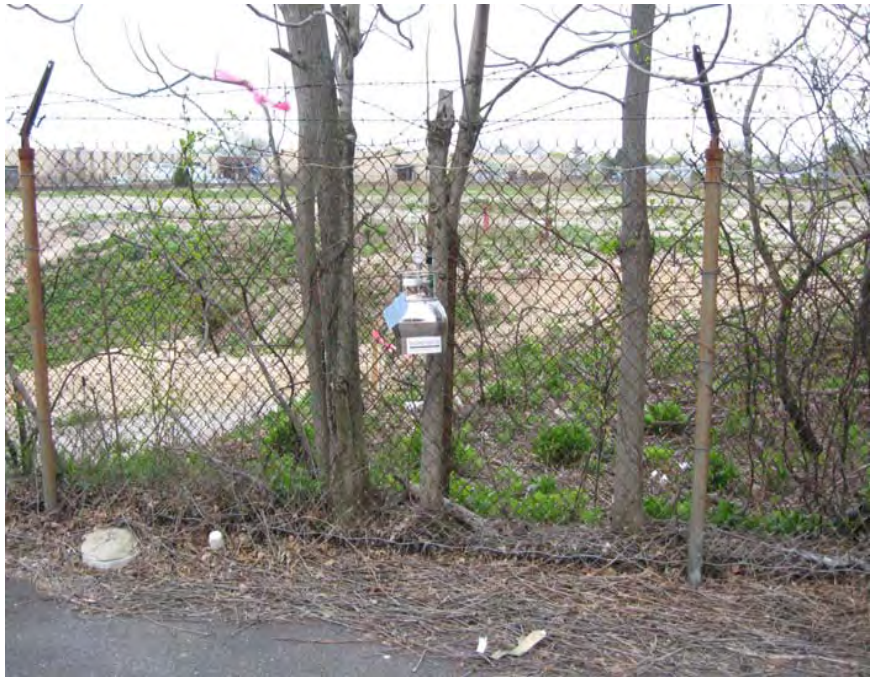


Photo for AMB-042711
Shows upwind ambient sampling location along western fence line.

APPENDIX E
PHOTOGRAPHS OF SAMPLING ACTIVITIES
April 27 & 28, 2011
BAYER MATERIAL SCIENCE LLC
HICKSVILLE, NEW YORK

Photo for AMB-042811
Shows upwind ambient sampling location south of eastern parking lot.

Photo for AMB-050511
Shows upwind ambient sampling location along northern fence line.

ARCADIS

Appendix F

Data Validation Report

ARCADIS
Infrastructure · Water · Environment · Buildings

Imagine the result

Bayer Material Science

Data Usability Summary Report

HICKSVILLE, NEW YORK

Volatile Analyses

SDG# 200-4973

Analyses Performed By:
TestAmerica Laboratories
Burlington, Vermont

Report: # 14163R
Project: B0032305.0004.00003

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #200-4973 for samples collected in association with the Bayer site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
SSV-2	200-4973-1	Air	4/28/2011		X				
SSV-8	200-4973-3	Air	4/28/2011		X				
SSV-1	200-4973-5	Air	4/28/2011		X				
DUP-042811	200-4973-6	Air	4/28/2011	SSV-2	X				
SSV-7	200-4973-8	Air	4/28/2011		X				
IA-2	200-4973-10	Air	4/28/2011		X				
IA-1	200-4973-4	Air	4/28/2011		X				
AMB-042811	200-4973-9	Air	4/28/2011		X				

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method TO-15. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999, USEPA Region II SOP HW-31- Validating Air Samples Volatile Organic Analysis of Ambient Air In Canister by Method TO-15 of October 2006, New York State DEC Analytical Method ASP 2005 TO-15 (QA/QC Criteria R9 TO-15), NYSDEC Modifications to R9 TO-15 QA/QC Criteria February 2008 and NYSDEC Proposed Change to the ASP Regarding Canister Vacuum June 26, 2009.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation	Return Canister Pressure
EPA TO-15	Air	30 days from collection to analysis	Ambient Temperature	> 1" Hg

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL.

3. Mass Spectrometer Tuning

Sample locations IA-1, AMB-042811, and IA-2 were compliant with the Method TO-15 requirement of analysis within a 24-hour tune clock but not compliant with the NYSDEC requirement of analysis within a 12-hour tune clock. The data was not qualified.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (30%) and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (30%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than 40% or less than 40% of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the established acceptance limits of 70% to 130%.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery
IA-1 AMB-042811 IA-2	Bromodichloromethane	131%
	Bromoform	146%
	Dibromochloromethane	137%
	Ethylbenzene	136%
	Methylene chloride	132%
	m,p-Xylene	138%
	o-Xylene	136%

The criteria used to evaluate the LCS recoveries are presented in the following table. In the case of an LCS deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
LCS percent recovery >130%	Non-detect	No Action
	Detect	J
LCS percent recovery <70% but > 10%	Non-detect	J
	Detect	J
< 10%	Non-detect	R
	Detect	J

Note: Sample results were not qualified as rejected (R) due to the deviations listed above.

7. Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for air matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of three times the RL is applied for air matrices.

Laboratory duplicates were not performed as part of this SDG.

8. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 100% for air matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of three times the RL is applied for air matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SSV-2/ DUP-042811	Tetrachloroethene ($\mu g/m^3$)	10,000	10,000	0%

U = Not detected
AC = Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

9. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: TO-15	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Canister return pressure/vacuum (>1"Hg)		X		X	
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
C. Trip blanks					X
Laboratory Control Sample (LCS)		X	X		
Laboratory Control Sample Duplicate (LCSD)					X
LCS/LCSD Precision (RPD)					X
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries					X
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X			
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Relative standard deviation
%R Percent recovery
RPD Relative percent difference
%D Percent difference

SAMPLE COMPLIANCE REPORT

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliancy[1]					Noncompliance
					VOC	SVOC	PCB/PEST /HERB	MET	MISC	
200-4973	4/28/2011	TO-15	SSV-2	Air	Yes	--	--	--	--	
200-4973	4/28/2011	TO-15	SSV-8	Air	Yes	--	--	--	--	
200-4973	4/28/2011	TO-15	SSV-1	Air	Yes	--	--	--	--	
200-4973	4/28/2011	TO-15	DUP-042811	Air	Yes	--	--	--	--	
200-4973	4/28/2011	TO-15	SSV-7	Air	Yes	--	--	--	--	
200-4973	4/28/2011	TO-15	IA-2	Air	No	--	--	--	--	VOC – LCS %Recovery
200-4973	4/28/2011	TO-15	IA-1	Air	No	--	--	--	--	VOC – LCS %Recovery
200-4973	4/28/2011	TO-15	AMB-042811	Air	No	--	--	--	--	VOC – LCS %Recovery

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Amy Coats

SIGNATURE: 

DATE: May 24, 2011

PEER REVIEW BY: Joseph C. Houser

DATE: May 24, 2011

CHAIN OF CUSTODY/
CORRECTED SAMPLE ANALYSIS DATA SHEETS

Client: ARCADIS U.S. Inc

Job Number: 200-4973-1
Sdg Number: 200-4973

Client Sample ID: **SSV-2**

Lab Sample ID: 200-4973-1
Client Matrix: Air

Date Sampled: 04/28/2011 1735
Date Received: 05/02/2011 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-17603	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkaj010.d
Dilution:	74.2			Initial Weight/Volume:	21 mL
Analysis Date:	05/05/2011 1802			Final Weight/Volume:	200 mL
Prep Date:	05/05/2011 1802			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	37	U	37
1,2-Dichlorotetrafluoroethane	15	U	15
Vinyl chloride	15	U	15
1,3-Butadiene	15	U	15
Bromomethane	15	U	15
Chloroethane	37	U	37
Bromoethene(Vinyl Bromide)	15	U	15
Trichlorofluoromethane	15	U	15
1,1-Dichloroethene	15	U	15
3-Chloropropene	37	U	37
Methylene Chloride	37	U	37
Methyl tert-butyl ether	15	U	15
trans-1,2-Dichloroethene	15	U	15
n-Hexane	15	U	15
1,1-Dichloroethane	15	U	15
cis-1,2-Dichloroethene	15	U	15
1,2-Dichloroethene, Total	15	U	15
Chloroform	15	U	15
1,1,1-Trichloroethane	15	U	15
Cyclohexane	15	U	15
Carbon tetrachloride	15	U	15
2,2,4-Trimethylpentane	15	U	15
Benzene	15	U	15
1,2-Dichloroethane	15	U	15
n-Heptane	15	U	15
Trichloroethene	15	U	15
1,2-Dichloropropane	15	U	15
Bromodichloromethane	15	U	15
cis-1,3-Dichloropropene	15	U	15
Toluene	15	U	15
trans-1,3-Dichloropropene	15	U	15
1,1,2-Trichloroethane	15	U	15
Tetrachloroethene	1500		15
Dibromochloromethane	15	U	15
1,2-Dibromoethane	15	U	15
Ethylbenzene	15	U	15
m,p-Xylene	37	U	37
Xylene, o-	15	U	15
Xylene (total)	15	U	15
Bromoform	15	U	15
1,1,2,2-Tetrachloroethane	15	U	15
4-Ethyltoluene	15	U	15
1,3,5-Trimethylbenzene	15	U	15

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	180	U	180

Client: ARCADIS U.S. Inc

Job Number: 200-4973-1
Sdg Number: 200-4973

Client Sample ID: **SSV-2**

Lab Sample ID: 200-4973-1
Client Matrix: Air

Date Sampled: 04/28/2011 1735
Date Received: 05/02/2011 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-17603	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkaj010.d
Dilution:	74.2			Initial Weight/Volume:	21 mL
Analysis Date:	05/05/2011 1802			Final Weight/Volume:	200 mL
Prep Date:	05/05/2011 1802			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	100	U	100
Vinyl chloride	38	U	38
1,3-Butadiene	33	U	33
Bromomethane	58	U	58
Chloroethane	98	U	98
Bromoethene(Vinyl Bromide)	65	U	65
Trichlorofluoromethane	83	U	83
1,1-Dichloroethene	59	U	59
3-Chloropropene	120	U	120
Methylene Chloride	130	U	130
Methyl tert-butyl ether	54	U	54
trans-1,2-Dichloroethene	59	U	59
n-Hexane	52	U	52
1,1-Dichloroethane	60	U	60
cis-1,2-Dichloroethene	59	U	59
1,2-Dichloroethene, Total	59	U	59
Chloroform	72	U	72
1,1,1-Trichloroethane	81	U	81
Cyclohexane	51	U	51
Carbon tetrachloride	93	U	93
2,2,4-Trimethylpentane	69	U	69
Benzene	47	U	47
1,2-Dichloroethane	60	U	60
n-Heptane	61	U	61
Trichloroethene	80	U	80
1,2-Dichloropropane	69	U	69
Bromodichloromethane	99	U	99
cis-1,3-Dichloropropene	67	U	67
Toluene	56	U	56
trans-1,3-Dichloropropene	67	U	67
1,1,2-Trichloroethane	81	U	81
Tetrachloroethene	10000		100
Dibromochloromethane	130	U	130
1,2-Dibromoethane	110	U	110
Ethylbenzene	64	U	64
m,p-Xylene	160	U	160
Xylene, o-	64	U	64
Xylene (total)	64	U	64
Bromoform	150	U	150
1,1,2,2-Tetrachloroethane	100	U	100
4-Ethyltoluene	73	U	73
1,3,5-Trimethylbenzene	73	U	73

Client: ARCADIS U.S. Inc

Job Number: 200-4973-1
Sdg Number: 200-4973

Client Sample ID: **SSV-8**

Lab Sample ID: 200-4973-3
Client Matrix: Air

Date Sampled: 04/28/2011 1840
Date Received: 05/02/2011 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-17603	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkaj011.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	05/05/2011 1854			Final Weight/Volume:	200 mL
Prep Date:	05/05/2011 1854			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.66		0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.20	U	0.20
Bromomethane	0.20	U	0.20
Chloroethane	0.50	U	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.20
Trichlorofluoromethane	1.4		0.20
1,1-Dichloroethene	0.20	U	0.20
3-Chloropropene	0.50	U	0.50
Methylene Chloride	1.0		0.50
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
n-Hexane	0.20	U	0.20
1,1-Dichloroethane	0.20	U	0.20
cis-1,2-Dichloroethene	0.20	U	0.20
1,2-Dichloroethene, Total	0.20	U	0.20
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.20	U	0.20
Cyclohexane	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
2,2,4-Trimethylpentane	0.20	U	0.20
Benzene	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
n-Heptane	0.20	U	0.20
Trichloroethene	1.7		0.20
1,2-Dichloropropane	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
Toluene	4.1		0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Tetrachloroethene	1.6		0.20
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Ethylbenzene	0.20	U	0.20
m,p-Xylene	0.72		0.50
Xylene, o-	0.23		0.20
Xylene (total)	0.94		0.20
Bromoform	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	3.2		2.5

Client: ARCADIS U.S. Inc

Job Number: 200-4973-1
Sdg Number: 200-4973

Client Sample ID: **SSV-8**

Lab Sample ID: 200-4973-3
Client Matrix: Air

Date Sampled: 04/28/2011 1840
Date Received: 05/02/2011 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-17603	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkaj011.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	05/05/2011 1854			Final Weight/Volume:	200 mL
Prep Date:	05/05/2011 1854			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	1.4	U	1.4
Vinyl chloride	0.51	U	0.51
1,3-Butadiene	0.44	U	0.44
Bromomethane	0.78	U	0.78
Chloroethane	1.3	U	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.87
Trichlorofluoromethane	8.1		1.1
1,1-Dichloroethene	0.79	U	0.79
3-Chloropropene	1.6	U	1.6
Methylene Chloride	3.5		1.7
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
n-Hexane	0.70	U	0.70
1,1-Dichloroethane	0.81	U	0.81
cis-1,2-Dichloroethene	0.79	U	0.79
1,2-Dichloroethene, Total	0.79	U	0.79
Chloroform	0.98	U	0.98
1,1,1-Trichloroethane	1.1	U	1.1
Cyclohexane	0.69	U	0.69
Carbon tetrachloride	1.3	U	1.3
2,2,4-Trimethylpentane	0.93	U	0.93
Benzene	0.64	U	0.64
1,2-Dichloroethane	0.81	U	0.81
n-Heptane	0.82	U	0.82
Trichloroethene	9.1		1.1
1,2-Dichloropropane	0.92	U	0.92
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
Toluene	15		0.75
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1
Tetrachloroethene	11		1.4
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Ethylbenzene	0.87	U	0.87
m,p-Xylene	3.1		2.2
Xylene, o-	0.98		0.87
Xylene (total)	4.1		0.87
Bromoform	2.1	U	2.1
1,1,2,2-Tetrachloroethane	1.4	U	1.4
4-Ethyltoluene	0.98	U	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98

Client: ARCADIS U.S. Inc

Job Number: 200-4973-1
Sdg Number: 200-4973

Client Sample ID: **SSV-1**

Lab Sample ID: 200-4973-5
Client Matrix: Air

Date Sampled: 04/28/2011 1810
Date Received: 05/02/2011 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-17603	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkaj012.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	05/05/2011 1946			Final Weight/Volume:	200 mL
Prep Date:	05/05/2011 1946			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.68		0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.20	U	0.20
Bromomethane	0.20	U	0.20
Chloroethane	0.50	U	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.20
Trichlorofluoromethane	14		0.20
1,1-Dichloroethene	0.20	U	0.20
3-Chloropropene	0.50	U	0.50
Methylene Chloride	0.67		0.50
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
n-Hexane	0.20		0.20
1,1-Dichloroethane	0.20	U	0.20
cis-1,2-Dichloroethene	0.20	U	0.20
1,2-Dichloroethene, Total	0.20	U	0.20
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.20	U	0.20
Cyclohexane	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
2,2,4-Trimethylpentane	0.20	U	0.20
Benzene	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
n-Heptane	0.20	U	0.20
Trichloroethene	0.20		0.20
1,2-Dichloropropane	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
Toluene	2.1		0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Tetrachloroethene	16		0.20
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Ethylbenzene	0.20		0.20
m,p-Xylene	0.80		0.50
Xylene, o-	0.24		0.20
Xylene (total)	1.0		0.20
Bromoform	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	3.4		2.5

Client: ARCADIS U.S. Inc

Job Number: 200-4973-1
Sdg Number: 200-4973

Client Sample ID: **SSV-1**

Lab Sample ID: 200-4973-5
Client Matrix: Air

Date Sampled: 04/28/2011 1810
Date Received: 05/02/2011 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-17603	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkaj012.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	05/05/2011 1946			Final Weight/Volume:	200 mL
Prep Date:	05/05/2011 1946			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	1.4	U	1.4
Vinyl chloride	0.51	U	0.51
1,3-Butadiene	0.44	U	0.44
Bromomethane	0.78	U	0.78
Chloroethane	1.3	U	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.87
Trichlorofluoromethane	76		1.1
1,1-Dichloroethene	0.79	U	0.79
3-Chloropropene	1.6	U	1.6
Methylene Chloride	2.3		1.7
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
n-Hexane	0.71		0.70
1,1-Dichloroethane	0.81	U	0.81
cis-1,2-Dichloroethene	0.79	U	0.79
1,2-Dichloroethene, Total	0.79	U	0.79
Chloroform	0.98	U	0.98
1,1,1-Trichloroethane	1.1	U	1.1
Cyclohexane	0.69	U	0.69
Carbon tetrachloride	1.3	U	1.3
2,2,4-Trimethylpentane	0.93	U	0.93
Benzene	0.64	U	0.64
1,2-Dichloroethane	0.81	U	0.81
n-Heptane	0.82	U	0.82
Trichloroethene	1.1		1.1
1,2-Dichloropropane	0.92	U	0.92
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
Toluene	7.8		0.75
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1
Tetrachloroethene	110		1.4
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Ethylbenzene	0.86		0.87
m,p-Xylene	3.5		2.2
Xylene, o-	1.1		0.87
Xylene (total)	4.5		0.87
Bromoform	2.1	U	2.1
1,1,2,2-Tetrachloroethane	1.4	U	1.4
4-Ethyltoluene	0.98	U	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98

Client: ARCADIS U.S. Inc

Job Number: 200-4973-1
Sdg Number: 200-4973

Client Sample ID: **DUP-042811**

Lab Sample ID: 200-4973-6
Client Matrix: Air

Date Sampled: 04/28/2011 0000
Date Received: 05/02/2011 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-17603	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkaj013.d
Dilution:	79.6			Initial Weight/Volume:	20 mL
Analysis Date:	05/05/2011 2039			Final Weight/Volume:	200 mL
Prep Date:	05/05/2011 2039			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	40	U	40
1,2-Dichlorotetrafluoroethane	16	U	16
Vinyl chloride	16	U	16
1,3-Butadiene	16	U	16
Bromomethane	16	U	16
Chloroethane	40	U	40
Bromoethene(Vinyl Bromide)	16	U	16
Trichlorofluoromethane	16	U	16
1,1-Dichloroethene	16	U	16
3-Chloropropene	40	U	40
Methylene Chloride	40	U	40
Methyl tert-butyl ether	16	U	16
trans-1,2-Dichloroethene	16	U	16
n-Hexane	16	U	16
1,1-Dichloroethane	16	U	16
cis-1,2-Dichloroethene	16	U	16
1,2-Dichloroethene, Total	16	U	16
Chloroform	16	U	16
1,1,1-Trichloroethane	16	U	16
Cyclohexane	16	U	16
Carbon tetrachloride	16	U	16
2,2,4-Trimethylpentane	16	U	16
Benzene	16	U	16
1,2-Dichloroethane	16	U	16
n-Heptane	16	U	16
Trichloroethene	16	U	16
1,2-Dichloropropane	16	U	16
Bromodichloromethane	16	U	16
cis-1,3-Dichloropropene	16	U	16
Toluene	16	U	16
trans-1,3-Dichloropropene	16	U	16
1,1,2-Trichloroethane	16	U	16
Tetrachloroethene	1500		16
Dibromochloromethane	16	U	16
1,2-Dibromoethane	16	U	16
Ethylbenzene	16	U	16
m,p-Xylene	40	U	40
Xylene, o-	16	U	16
Xylene (total)	16	U	16
Bromoform	16	U	16
1,1,2,2-Tetrachloroethane	16	U	16
4-Ethyltoluene	16	U	16
1,3,5-Trimethylbenzene	16	U	16

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	200	U	200

Client: ARCADIS U.S. Inc

Job Number: 200-4973-1
Sdg Number: 200-4973

Client Sample ID: **DUP-042811**

Lab Sample ID: 200-4973-6
Client Matrix: Air

Date Sampled: 04/28/2011 0000
Date Received: 05/02/2011 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-17603	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkaj013.d
Dilution:	79.6			Initial Weight/Volume:	20 mL
Analysis Date:	05/05/2011 2039			Final Weight/Volume:	200 mL
Prep Date:	05/05/2011 2039			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	110	U	110
Vinyl chloride	41	U	41
1,3-Butadiene	35	U	35
Bromomethane	62	U	62
Chloroethane	110	U	110
Bromoethene(Vinyl Bromide)	70	U	70
Trichlorofluoromethane	89	U	89
1,1-Dichloroethene	63	U	63
3-Chloropropene	120	U	120
Methylene Chloride	140	U	140
Methyl tert-butyl ether	57	U	57
trans-1,2-Dichloroethene	63	U	63
n-Hexane	56	U	56
1,1-Dichloroethane	64	U	64
cis-1,2-Dichloroethene	63	U	63
1,2-Dichloroethene, Total	63	U	63
Chloroform	78	U	78
1,1,1-Trichloroethane	87	U	87
Cyclohexane	55	U	55
Carbon tetrachloride	100	U	100
2,2,4-Trimethylpentane	74	U	74
Benzene	51	U	51
1,2-Dichloroethane	64	U	64
n-Heptane	65	U	65
Trichloroethene	86	U	86
1,2-Dichloropropane	74	U	74
Bromodichloromethane	110	U	110
cis-1,3-Dichloropropene	72	U	72
Toluene	60	U	60
trans-1,3-Dichloropropene	72	U	72
1,1,2-Trichloroethane	87	U	87
Tetrachloroethene	10000		110
Dibromochloromethane	140	U	140
1,2-Dibromoethane	120	U	120
Ethylbenzene	69	U	69
m,p-Xylene	170	U	170
Xylene, o-	69	U	69
Xylene (total)	69	U	69
Bromoform	160	U	160
1,1,2,2-Tetrachloroethane	110	U	110
4-Ethyltoluene	78	U	78
1,3,5-Trimethylbenzene	78	U	78

Client: ARCADIS U.S. Inc

Job Number: 200-4973-1
Sdg Number: 200-4973

Client Sample ID: **SSV-7**

Lab Sample ID: 200-4973-8
Client Matrix: Air

Date Sampled: 04/28/2011 2000
Date Received: 05/02/2011 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-17603	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkaj014.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	05/05/2011 2131			Final Weight/Volume:	200 mL
Prep Date:	05/05/2011 2131			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	1.5	U	1.5
1,2-Dichlorotetrafluoroethane	0.60	U	0.60
Vinyl chloride	0.60	U	0.60
1,3-Butadiene	0.60	U	0.60
Bromomethane	0.60	U	0.60
Chloroethane	1.5	U	1.5
Bromoethene(Vinyl Bromide)	0.60	U	0.60
Trichlorofluoromethane	2.7		0.60
1,1-Dichloroethene	0.60	U	0.60
3-Chloropropene	1.5	U	1.5
Methylene Chloride	1.5	U	1.5
Methyl tert-butyl ether	94		0.60
trans-1,2-Dichloroethene	0.60	U	0.60
n-Hexane	0.60	U	0.60
1,1-Dichloroethane	0.60	U	0.60
cis-1,2-Dichloroethene	0.60	U	0.60
1,2-Dichloroethene, Total	0.60	U	0.60
Chloroform	0.60	U	0.60
1,1,1-Trichloroethane	0.60	U	0.60
Cyclohexane	0.60	U	0.60
Carbon tetrachloride	0.60	U	0.60
2,2,4-Trimethylpentane	0.60	U	0.60
Benzene	0.60	U	0.60
1,2-Dichloroethane	0.60	U	0.60
n-Heptane	0.60	U	0.60
Trichloroethene	6.9		0.60
1,2-Dichloropropane	0.60	U	0.60
Bromodichloromethane	0.60	U	0.60
cis-1,3-Dichloropropene	0.60	U	0.60
Toluene	47		0.60
trans-1,3-Dichloropropene	0.60	U	0.60
1,1,2-Trichloroethane	0.60	U	0.60
Tetrachloroethene	51		0.60
Dibromochloromethane	0.60	U	0.60
1,2-Dibromoethane	0.60	U	0.60
Ethylbenzene	29		0.60
m,p-Xylene	73		1.5
Xylene, o-	25		0.60
Xylene (total)	98		0.60
Bromoform	0.60	U	0.60
1,1,2,2-Tetrachloroethane	0.60	U	0.60
4-Ethyltoluene	0.60	U	0.60
1,3,5-Trimethylbenzene	0.60	U	0.60

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	7.4	U	7.4

Client: ARCADIS U.S. Inc

Job Number: 200-4973-1
Sdg Number: 200-4973

Client Sample ID: **SSV-7**

Lab Sample ID: 200-4973-8
Client Matrix: Air

Date Sampled: 04/28/2011 2000
Date Received: 05/02/2011 0950

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-17603	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkaj014.d
Dilution:	2.99			Initial Weight/Volume:	67 mL
Analysis Date:	05/05/2011 2131			Final Weight/Volume:	200 mL
Prep Date:	05/05/2011 2131			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	4.2	U	4.2
Vinyl chloride	1.5	U	1.5
1,3-Butadiene	1.3	U	1.3
Bromomethane	2.3	U	2.3
Chloroethane	3.9	U	3.9
Bromoethene(Vinyl Bromide)	2.6	U	2.6
Trichlorofluoromethane	15		3.4
1,1-Dichloroethene	2.4	U	2.4
3-Chloropropene	4.7	U	4.7
Methylene Chloride	5.2	U	5.2
Methyl tert-butyl ether	340		2.2
trans-1,2-Dichloroethene	2.4	U	2.4
n-Hexane	2.1	U	2.1
1,1-Dichloroethane	2.4	U	2.4
cis-1,2-Dichloroethene	2.4	U	2.4
1,2-Dichloroethene, Total	2.4	U	2.4
Chloroform	2.9	U	2.9
1,1,1-Trichloroethane	3.3	U	3.3
Cyclohexane	2.1	U	2.1
Carbon tetrachloride	3.8	U	3.8
2,2,4-Trimethylpentane	2.8	U	2.8
Benzene	1.9	U	1.9
1,2-Dichloroethane	2.4	U	2.4
n-Heptane	2.5	U	2.5
Trichloroethene	37		3.2
1,2-Dichloropropane	2.8	U	2.8
Bromodichloromethane	4.0	U	4.0
cis-1,3-Dichloropropene	2.7	U	2.7
Toluene	180		2.3
trans-1,3-Dichloropropene	2.7	U	2.7
1,1,2-Trichloroethane	3.3	U	3.3
Tetrachloroethene	340		4.1
Dibromochloromethane	5.1	U	5.1
1,2-Dibromoethane	4.6	U	4.6
Ethylbenzene	130		2.6
m,p-Xylene	320		6.5
Xylene, o-	110		2.6
Xylene (total)	430		2.6
Bromoform	6.2	U	6.2
1,1,2,2-Tetrachloroethane	4.1	U	4.1
4-Ethyltoluene	2.9	U	2.9
1,3,5-Trimethylbenzene	2.9	U	2.9

Client: ARCADIS U.S. Inc

Job Number: 200-4973-1
Sdg Number: 200-4973

Client Sample ID: IA-1

Lab Sample ID: 200-4973-4
Client Matrix: Air

Date Sampled: 04/28/2011 1810
Date Received: 05/02/2011 0950

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17816	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejw018.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/11/2011 0048			Final Weight/Volume:	500 mL
Prep Date:	05/11/2011 0048			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.42		0.040
1,2-Dichlorotetrafluoroethane	0.040	U	0.040
Vinyl chloride	0.080	U	0.080
1,3-Butadiene	0.080	U	0.080
Bromomethane	0.080	U	0.080
Chloroethane	0.080	U	0.080
Bromoethene(Vinyl Bromide)	0.080	U	0.080
Trichlorofluoromethane	2.7		0.040
1,1-Dichloroethene	0.040	U	0.040
3-Chloropropene	0.080	U	0.080
Methylene Chloride	6.9	J	0.80
Methyl tert-butyl ether	0.040	U	0.040
trans-1,2-Dichloroethene	0.040	U	0.040
n-Hexane	0.16		0.080
1,1-Dichloroethane	0.040	U	0.040
cis-1,2-Dichloroethene	0.040	U	0.040
Chloroform	0.040	U	0.040
1,1,1-Trichloroethane	0.040	U	0.040
Cyclohexane	0.14		0.040
Carbon tetrachloride	0.074		0.040
2,2,4-Trimethylpentane	0.075		0.040
Benzene	0.14		0.040
1,2-Dichloroethane	0.080	U	0.080
n-Heptane	0.31		0.040
Trichloroethene	0.047		0.040
1,2-Dichloropropane	0.080	U	0.080
Bromodichloromethane	0.040	U	0.040
cis-1,3-Dichloropropene	0.040	U	0.040
Toluene	3.8		0.040
trans-1,3-Dichloropropene	0.040	U	0.040
1,1,2-Trichloroethane	0.040	U	0.040
Tetrachloroethene	0.058		0.040
Dibromochloromethane	0.040	U	0.040
1,2-Dibromoethane	0.040	U	0.040
Ethylbenzene	0.74	J	0.040
o-Xylene	0.53	J	0.040
Bromoform	0.040	U	0.040
1,1,2,2-Tetrachloroethane	0.040	U	0.040
4-Ethyltoluene	0.052		0.040
1,3,5-Trimethylbenzene	0.080	U	0.080
1,2-Dichloroethene, Total	0.040	U	0.040
m-Xylene & p-Xylene	1.4	J	0.080
Xylenes, Total	1.9	J	0.040

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.1		0.20

Client: ARCADIS U.S. Inc

Job Number: 200-4973-1
Sdg Number: 200-4973

Client Sample ID: **IA-1**

Lab Sample ID: 200-4973-4
Client Matrix: Air

Date Sampled: 04/28/2011 1810
Date Received: 05/02/2011 0950

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17816	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejw018.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/11/2011 0048			Final Weight/Volume:	500 mL
Prep Date:	05/11/2011 0048			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	0.28	U	0.28
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.18	U	0.18
Bromomethane	0.31	U	0.31
Chloroethane	0.21	U	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35
Trichlorofluoromethane	15		0.22
1,1-Dichloroethene	0.16	U	0.16
3-Chloropropene	0.25	U	0.25
Methylene Chloride	24	* J	2.8
Methyl tert-butyl ether	0.14	U	0.14
trans-1,2-Dichloroethene	0.16	U	0.16
n-Hexane	0.55		0.28
1,1-Dichloroethane	0.16	U	0.16
cis-1,2-Dichloroethene	0.16	U	0.16
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.22	U	0.22
Cyclohexane	0.48		0.14
Carbon tetrachloride	0.47		0.25
2,2,4-Trimethylpentane	0.35		0.19
Benzene	0.43		0.13
1,2-Dichloroethane	0.32	U	0.32
n-Heptane	1.3		0.16
Trichloroethene	0.25		0.21
1,2-Dichloropropane	0.37	U	0.37
Bromodichloromethane	0.27	U	0.27
cis-1,3-Dichloropropene	0.18	U	0.18
Toluene	15		0.15
trans-1,3-Dichloropropene	0.18	U	0.18
1,1,2-Trichloroethane	0.22	U	0.22
Tetrachloroethene	0.40		0.27
Dibromochloromethane	0.34	U	0.34
1,2-Dibromoethane	0.31	U	0.31
Ethylbenzene	3.2	* J	0.17
o-Xylene	2.3	* J	0.17
Bromoform	0.41	U	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27
4-Ethyltoluene	0.25		0.20
1,3,5-Trimethylbenzene	0.39	U	0.39
1,2-Dichloroethene, Total	0.16	U	0.16
m-Xylene & p-Xylene	6.0	* J	0.35
Xylenes, Total	8.3	* J	0.17

Client: ARCADIS U.S. Inc

Job Number: 200-4973-1
Sdg Number: 200-4973

Client Sample ID: **AMB-042811**

Lab Sample ID: 200-4973-9
Client Matrix: Air

Date Sampled: 04/28/2011 1730
Date Received: 05/02/2011 0950

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17816	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejw019.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/11/2011 0142			Final Weight/Volume:	500 mL
Prep Date:	05/11/2011 0142			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	0.28	U	0.28
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.18	U	0.18
Bromomethane	0.31	U	0.31
Chloroethane	0.21	U	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35
Trichlorofluoromethane	1.2		0.22
1,1-Dichloroethene	0.16	U	0.16
3-Chloropropene	0.25	U	0.25
Methylene Chloride	2.8	U	2.8
Methyl tert-butyl ether	0.14	U	0.14
trans-1,2-Dichloroethene	0.16	U	0.16
n-Hexane	0.48		0.28
1,1-Dichloroethane	0.16	U	0.16
cis-1,2-Dichloroethene	0.16	U	0.16
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.22	U	0.22
Cyclohexane	0.16		0.14
Carbon tetrachloride	0.48		0.25
2,2,4-Trimethylpentane	0.19	U	0.19
Benzene	0.20		0.13
1,2-Dichloroethane	0.32	U	0.32
n-Heptane	0.64		0.16
Trichloroethene	0.21	U	0.21
1,2-Dichloropropane	0.37	U	0.37
Bromodichloromethane	0.27	U	0.27
cis-1,3-Dichloropropene	0.18	U	0.18
Toluene	1.5		0.15
trans-1,3-Dichloropropene	0.18	U	0.18
1,1,2-Trichloroethane	0.22	U	0.22
Tetrachloroethene	0.32		0.27
Dibromochloromethane	0.34	U	0.34
1,2-Dibromoethane	0.31	U	0.31
Ethylbenzene	0.21	J	0.17
o-Xylene	0.17	U	0.17
Bromoform	0.41	U	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.39	U	0.39
1,2-Dichloroethene, Total	0.16	U	0.16
m-Xylene & p-Xylene	0.52	J	0.35
Xylenes, Total	0.66	J	0.17

Client: ARCADIS U.S. Inc

Job Number: 200-4973-1
Sdg Number: 200-4973

Client Sample ID: **AMB-042811**

Lab Sample ID: 200-4973-9
Client Matrix: Air

Date Sampled: 04/28/2011 1730
Date Received: 05/02/2011 0950

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17816	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejw019.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/11/2011 0142			Final Weight/Volume:	500 mL
Prep Date:	05/11/2011 0142			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.48		0.040
1,2-Dichlorotetrafluoroethane	0.040	U	0.040
Vinyl chloride	0.080	U	0.080
1,3-Butadiene	0.080	U	0.080
Bromomethane	0.080	U	0.080
Chloroethane	0.080	U	0.080
Bromoethene(Vinyl Bromide)	0.080	U	0.080
Trichlorofluoromethane	0.21		0.040
1,1-Dichloroethene	0.040	U	0.040
3-Chloropropene	0.080	U	0.080
Methylene Chloride	0.80	U	0.80
Methyl tert-butyl ether	0.040	U	0.040
trans-1,2-Dichloroethene	0.040	U	0.040
n-Hexane	0.14		0.080
1,1-Dichloroethane	0.040	U	0.040
cis-1,2-Dichloroethene	0.040	U	0.040
Chloroform	0.040	U	0.040
1,1,1-Trichloroethane	0.040	U	0.040
Cyclohexane	0.046		0.040
Carbon tetrachloride	0.077		0.040
2,2,4-Trimethylpentane	0.040	U	0.040
Benzene	0.064		0.040
1,2-Dichloroethane	0.080	U	0.080
n-Heptane	0.16		0.040
Trichloroethene	0.040	U	0.040
1,2-Dichloropropane	0.080	U	0.080
Bromodichloromethane	0.040	U	0.040
cis-1,3-Dichloropropene	0.040	U	0.040
Toluene	0.39		0.040
trans-1,3-Dichloropropene	0.040	U	0.040
1,1,2-Trichloroethane	0.040	U	0.040
Tetrachloroethene	0.047		0.040
Dibromochloromethane	0.040	U	0.040
1,2-Dibromoethane	0.040	U	0.040
Ethylbenzene	0.048	J	0.040
o-Xylene	0.040	U	0.040
Bromoform	0.040	U	0.040
1,1,2,2-Tetrachloroethane	0.040	U	0.040
4-Ethyltoluene	0.040	U	0.040
1,3,5-Trimethylbenzene	0.080	U	0.080
1,2-Dichloroethene, Total	0.040	U	0.040
m-Xylene & p-Xylene	0.12	J	0.080
Xylenes, Total	0.15	J	0.040

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.4		0.20

Client: ARCADIS U.S. Inc

Job Number: 200-4973-1
Sdg Number: 200-4973

Client Sample ID: **IA-2**

Lab Sample ID: 200-4973-10
Client Matrix: Air

Date Sampled: 04/28/2011 1650
Date Received: 05/02/2011 0950

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17816	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejw020.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/11/2011 0237			Final Weight/Volume:	500 mL
Prep Date:	05/11/2011 0237			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	0.28	U	0.28
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.29		0.18
Bromomethane	0.31	U	0.31
Chloroethane	0.21	U	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35
Trichlorofluoromethane	6.1		0.22
1,1-Dichloroethene	0.16	U	0.16
3-Chloropropene	0.25	U	0.25
Methylene Chloride	2.8	U	2.8
Methyl tert-butyl ether	0.14	U	0.14
trans-1,2-Dichloroethene	0.16	U	0.16
n-Hexane	1.4		0.28
1,1-Dichloroethane	0.16	U	0.16
cis-1,2-Dichloroethene	0.16	U	0.16
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.22	U	0.22
Cyclohexane	0.47		0.14
Carbon tetrachloride	0.39		0.25
2,2,4-Trimethylpentane	0.44		0.19
Benzene	0.71		0.13
1,2-Dichloroethane	0.32	U	0.32
n-Heptane	1.3		0.16
Trichloroethene	0.25		0.21
1,2-Dichloropropane	0.37	U	0.37
Bromodichloromethane	0.27	U	0.27
cis-1,3-Dichloropropene	0.18	U	0.18
Toluene	12		0.15
trans-1,3-Dichloropropene	0.18	U	0.18
1,1,2-Trichloroethane	0.22	U	0.22
Tetrachloroethene	6.5		0.27
Dibromochloromethane	0.34	U	0.34
1,2-Dibromoethane	0.31	U	0.31
Ethylbenzene	11	J	0.17
o-Xylene	7.3	J	0.17
Bromoform	0.41	U	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27
4-Ethyltoluene	0.74		0.20
1,3,5-Trimethylbenzene	0.87		0.39
1,2-Dichloroethene, Total	0.16	U	0.16
m-Xylene & p-Xylene	33	J	0.35
Xylenes, Total	40	J	0.17

Client: ARCADIS U.S. Inc

Job Number: 200-4973-1
Sdg Number: 200-4973

Client Sample ID: **IA-2**

Lab Sample ID: 200-4973-10
Client Matrix: Air

Date Sampled: 04/28/2011 1650
Date Received: 05/02/2011 0950

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17816	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejw020.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/11/2011 0237			Final Weight/Volume:	500 mL
Prep Date:	05/11/2011 0237			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.44		0.040
1,2-Dichlorotetrafluoroethane	0.040	U	0.040
Vinyl chloride	0.080	U	0.080
1,3-Butadiene	0.13		0.080
Bromomethane	0.080	U	0.080
Chloroethane	0.080	U	0.080
Bromoethene(Vinyl Bromide)	0.080	U	0.080
Trichlorofluoromethane	1.1		0.040
1,1-Dichloroethene	0.040	U	0.040
3-Chloropropene	0.080	U	0.080
Methylene Chloride	0.80	U	0.80
Methyl tert-butyl ether	0.040	U	0.040
trans-1,2-Dichloroethene	0.040	U	0.040
n-Hexane	0.39		0.080
1,1-Dichloroethane	0.040	U	0.040
cis-1,2-Dichloroethene	0.040	U	0.040
Chloroform	0.040	U	0.040
1,1,1-Trichloroethane	0.040	U	0.040
Cyclohexane	0.14		0.040
Carbon tetrachloride	0.061		0.040
2,2,4-Trimethylpentane	0.094		0.040
Benzene	0.22		0.040
1,2-Dichloroethane	0.080	U	0.080
n-Heptane	0.31		0.040
Trichloroethene	0.047		0.040
1,2-Dichloropropane	0.080	U	0.080
Bromodichloromethane	0.040	U	0.040
cis-1,3-Dichloropropene	0.040	U	0.040
Toluene	3.1		0.040
trans-1,3-Dichloropropene	0.040	U	0.040
1,1,2-Trichloroethane	0.040	U	0.040
Tetrachloroethene	0.96		0.040
Dibromochloromethane	0.040	U	0.040
1,2-Dibromoethane	0.040	U	0.040
Ethylbenzene	2.6	J	0.040
o-Xylene	1.7	J	0.040
Bromoform	0.040	U	0.040
1,1,2,2-Tetrachloroethane	0.040	U	0.040
4-Ethyltoluene	0.15		0.040
1,3,5-Trimethylbenzene	0.18		0.080
1,2-Dichloroethene, Total	0.040	U	0.040
m-Xylene & p-Xylene	7.6	J	0.080
Xylenes, Total	9.2	J	0.040

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.2		0.20

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: John Brussel	Samples Collected By: DZ/LH	1 of 2 COCs
Company: ARCADIS	Phone: (315) 671-9441		
Address: 6723 Towpath Rd	Email: John.Brussel@Arcadis-us.com		
City/State/Zip Syracuse NY 13214-0066			
Phone: (315) 446-9120	Site Contact: Dan Zuck		
FAX: (315) 449-4111	TA Contact: Dan Dawicki		
Project Name: Bayer Hicksville	**Analysis Turnaround Time**		
Site: 1 Empire Drive Hicksville, NY	Standard (Specify) 15 days		
PO # 130032305.0004.00003	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum In Field, "Hg (Start)	Canister Vacuum In Field, 'Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MODIFIED TO-15 Low Level	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SSV-2	4/28/11	1005	1735	-30	*[illegible]	K150	5095	1											✓
IA-8	4/28/11	1048	1328	-13.5	-4.4	K313	4476		1						✓				
SSV-8	4/28/11	1048	1840	-30	-4.42	K263	2779	1											✓
IA-1	4/28/11	1100	1810	-29.25	-5.79	K258	5045		1						✓				
SSV-1	4/28/11	1100	1810	-28.5	-5.13	K108	5161	1											✓
DUP-042811	4/28/11	—	—	-30	-5.0	K408	4542	1											✓

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (Inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:
Send Results to Attn: Andy Enigk
Other = SubSlab Vapor

*SSV-2 Digital Reading: -6.12

Samples Shipped by: Daniel Zuck	Date/Time: 4/29/11 1235	Samples Received by: Joseph L Martin 05/02/11 0950
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

Lab Use Only Shipper Name: Opened by: Condition:

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: John Brussel	Samples Collected By: DZ / LH	#2 of 2 COCs
Company: ARCADIS	Phone: (315) 671-9441		
Address: 6723 Towpath Rd	Email: John.Brussel@Arcadis-US.com		
City/State/Zip: Syracuse, NY 13214-0066			
Phone: (315) 446-9120	Site Contact: Dan Zuck		
FAX: (315) 449-4110	TA Contact: Don Dawicki		
Project Name: Bayer Hicksville	**Analysis Turnaround Time**		
Site: Empire Drive Hicksville, NY	Standard (Specify) 15 Days		
PO # B0032305.0004.00003	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum In Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	Modified TO-15 Low Level	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
IA-1	4/28/11	1125	1550	-18.5	-3.9	K113B	2820		1						✓				
SSV-1	4/28/11	1120	2000	-32	-5.3	K405	3257	1											✓
AMB-042811	4/28/11	900	1730	-29	-3.59	K181	4092		1							✓			
IA-2	4/28/11	1005	1650	-30	-7.63	K225	2670		1						✓				

Temperature (Fahrenheit)			
	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)			
	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments: Send Results to Attn: Andy Enigk

Other: Sub Slab Vapor

Samples Shipped by: Daniel Zuck	Date/Time: 4/29/11 1235	Samples Received by: Joan Loconti 05/02/11 0950
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

Lab Use Only Shipper Name: Opened by: Condition:

ARCADIS
Infrastructure · Water · Environment · Buildings

Imagine the result

Bayer Material Science

Data Usability Summary Report

HICKSVILLE, NEW YORK

Volatile Analyses

SDG# 200-4953

Analyses Performed By:
TestAmerica Laboratories
Burlington, Vermont

Report: # 14192R
Project: B0032305.0004.00003

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #200-4953 for samples collected in association with the Bayer site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
AMB-042711	200-4953-1	Air	4/27/2011		X				
IA-4	200-4953-3	Air	4/27/2011		X				
IA-3	200-4953-5	Air	4/27/2011		X				
IA-5	200-4953-7	Air	4/27/2011		X				
IA-6	200-4953-8	Air	4/27/2011		X				
DUP2-4/27/11	200-4953-9	Air	4/27/2011	IA-5	X				
SSV-6	200-4953-10	Air	4/28/2011		X				
SSV-4	200-4953-2	Air	4/27/2011		X				
SSV-3	200-4953-4	Air	4/27/2011		X				
SSV-5	200-4953-6	Air	4/27/2011		X				

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method TO-15. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999, USEPA Region II SOP HW-31- Validating Air Samples Volatile Organic Analysis of Ambient Air In Canister by Method TO-15 of October 2006, New York State DEC Analytical Method ASP 2005 TO-15 (QA/QC Criteria R9 TO-15), NYSDEC Modifications to R9 TO-15 QA/QC Criteria February 2008 and NYSDEC Proposed Change to the ASP Regarding Canister Vacuum June 26, 2009.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation	Return Canister Pressure
EPA TO-15	Air	30 days from collection to analysis	Ambient Temperature	> 1" Hg

The sample locations with canisters that exceeded return pressure criteria are presented in the following table.

Sample Locations	Return Pressure/Vacuum Reading ("of Hg)
SSV-6	0.0

Sample results associated with sample locations analyzed by analytical method TO-15 were qualified, as specified in the table below. All other canister return pressure/vacuum criteria were met.

Criteria	Qualification	
	Detected Analytes	Nondetect Analytes
Return pressure/vacuum <1"Hg to 0.1"Hg	J	UJ
Return pressure/vacuum 0.0"Hg	J	R

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL.

3. Mass Spectrometer Tuning

Sample locations IA-3, IA-5, IA-6, DUP2-4/27/11, and SSV-5 were compliant with the Method TO-15 requirement of analysis within a 24-hour tune clock but not compliant with the NYSDEC requirement of analysis within a 12-hour tune clock. The data was not qualified.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (30%) and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (30%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than 40% or less than 40% of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the established acceptance limits of 70% to 130%.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	LCS Recovery
AMB-042711 IA-4 IA-3 IA-5 IA-6 DUP2-4/27/11	Bromodichloromethane	131%
	Bromoform	146%
	Dibromochloromethane	137%
	Ethylbenzene	136%
	Methylene chloride	132%
	m,p-Xylene	138%
	o-Xylene	136%

The criteria used to evaluate the LCS recoveries are presented in the following table. In the case of an LCS deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
LCS percent recovery >130%	Non-detect	No Action
	Detect	J
LCS percent recovery <70% but > 10%	Non-detect	J
	Detect	J
< 10%	Non-detect	R
	Detect	J

Note: Sample results were not qualified as rejected (R) due to the deviations listed above.

7. Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for air matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of three times the RL is applied for air matrices.

Laboratory duplicates were not performed as part of this SDG.

8. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 100% for air matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of three times the RL is applied for air matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
IA-5/ DUP2-4/27/11	1,3,5-Trimethylbenzene	0.89	0.91	AC
	1,3-Butadiene	0.2	0.18U	AC
	4-Ethyltoluene	1.2	1.3	8.0 %
	Benzene	0.47	0.45	AC
	Carbon tetrachloride	0.45	0.46	AC
	Cyclohexane	13	14 D	7.4 %
	Dichlorodifluoromethane	2.2	2.3	4.4 %
	Ethylbenzene	3	3	0 %
	m-Xylene & p-Xylene	9.2	8.9	3.3 %
	n-Heptane	53 D	63 D	0 %
	n-Hexane	2.5	2.3	8.3 %
	o-Xylene	2.2	2.1	4.6 %
	Tetrachloroethene	3.1	3	3.2 %

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
	Toluene	270 D	380 EDJ	33.8 %
	Trichlorofluoromethane	1.6	1.6	0 %
	Vinyl chloride	0.44	0.5	AC
	Xylenes, Total	11	11	0 %
	1,3,5-Trimethylbenzene	0.89	0.91	AC

U = Not detected
AC = Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

9. Compound Identification

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
IA-3	Cyclohexane	16 E	18 D	18 D
	n-Heptane	65 E	74 D	74 D
	Toluene	310 E	380 D	380 D
IA-5	n-Heptane	49 E	53 D	53 D
	Toluene	260 E	270 D	270 D
IA-6	Toluene	61 E	56 D	56 D
DUP2-4/27/11	Cyclohexane	14 E	14 D	14 D
	n-Heptane	49 E	63 D	63 D
	Toluene	270 E	380 ED	380 EDJ

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: TO-15	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Canister return pressure/vacuum (>1"Hg)		X	X		
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
C. Trip blanks					X
Laboratory Control Sample (LCS)		X	X		
Laboratory Control Sample Duplicate (LCSD)					X
LCS/LCSD Precision (RPD)					X
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries					X
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X			
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Relative standard deviation
%R Percent recovery
RPD Relative percent difference
%D Percent difference

SAMPLE COMPLIANCE REPORT

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliancy[1]					Noncompliance
					VOC	SVOC	PCB/PEST /HERB	MET	MISC	
200-4953	4/27/2011	TO-15	AMB-042711	Air	No	--	--	--	--	VOC – LCS %Recovery
200-4953	4/27/2011	TO-15	IA-4	Air	No	--	--	--	--	VOC – LCS %Recovery
200-4953	4/27/2011	TO-15	IA-3	Air	No	--	--	--	--	VOC – LCS %Recovery
200-4953	4/27/2011	TO-15	IA-5	Air	No	--	--	--	--	VOC – LCS %Recovery
200-4953	4/27/2011	TO-15	IA-6	Air	No	--	--	--	--	VOC – LCS %Recovery
200-4953	4/27/2011	TO-15	DUP2-4/27/11	Air	No	--	--	--	--	VOC – LCS %Recovery
200-4953	4/28/2011	TO-15	SSV-6	Air	No	--	--	--	--	VOC – Canister pressure
200-4953	4/27/2011	TO-15	SSV-4	Air	Yes	--	--	--	--	
200-4953	4/27/2011	TO-15	SSV-3	Air	Yes	--	--	--	--	
200-4953	4/27/2011	TO-15	SSV-5	Air	Yes	--	--	--	--	

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Amy Coats

SIGNATURE: 

DATE: May 26, 2011

PEER REVIEW BY: Joseph C. Houser

DATE: May 31, 2011

CHAIN OF CUSTODY/
CORRECTED SAMPLE ANALYSIS DATA SHEETS

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: SSV-4

Lab Sample ID: 200-4953-2
Client Matrix: Air

Date Sampled: 04/27/2011 1730
Date Received: 04/29/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-17560	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	cjug009.d
Dilution:	24.8			Initial Weight/Volume:	36 mL
Analysis Date:	05/04/2011 1625			Final Weight/Volume:	200 mL
Prep Date:	05/04/2011 1625			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	12	U	12
1,2-Dichlorotetrafluoroethane	5.0	U	5.0
Vinyl chloride	5.0	U	5.0
1,3-Butadiene	5.0	U	5.0
Bromomethane	5.0	U	5.0
Chloroethane	12	U	12
Bromoethene(Vinyl Bromide)	5.0	U	5.0
Trichlorofluoromethane	5.0	U	5.0
1,1-Dichloroethene	5.0	U	5.0
3-Chloropropene	12	U	12
Methylene Chloride	12	U	12
Methyl tert-butyl ether	5.0	U	5.0
trans-1,2-Dichloroethene	5.0	U	5.0
n-Hexane	5.0	U	5.0
1,1-Dichloroethane	5.0	U	5.0
cis-1,2-Dichloroethene	5.0	U	5.0
1,2-Dichloroethene, Total	5.0	U	5.0
Chloroform	5.0	U	5.0
1,1,1-Trichloroethane	5.0	U	5.0
Cyclohexane	5.0	U	5.0
Carbon tetrachloride	5.0	U	5.0
2,2,4-Trimethylpentane	5.0	U	5.0
Benzene	5.0	U	5.0
1,2-Dichloroethane	5.0	U	5.0
n-Heptane	5.0	U	5.0
Trichloroethene	12		5.0
1,2-Dichloropropane	5.0	U	5.0
Bromodichloromethane	5.0	U	5.0
cis-1,3-Dichloropropene	5.0	U	5.0
Toluene	5.0	U	5.0
trans-1,3-Dichloropropene	5.0	U	5.0
1,1,2-Trichloroethane	5.0	U	5.0
Tetrachloroethene	540		5.0
Dibromochloromethane	5.0	U	5.0
1,2-Dibromoethane	5.0	U	5.0
Ethylbenzene	5.0	U	5.0
m,p-Xylene	12	U	12
Xylene, o-	5.0	U	5.0
Xylene (total)	5.0	U	5.0
Bromoform	5.0	U	5.0
1,1,2,2-Tetrachloroethane	5.0	U	5.0
4-Ethyltoluene	5.0	U	5.0
1,3,5-Trimethylbenzene	5.0	U	5.0

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	61	U	61

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: SSV-4

Lab Sample ID: 200-4953-2
Client Matrix: Air

Date Sampled: 04/27/2011 1730
Date Received: 04/29/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-17560	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	cjug009.d
Dilution:	24.8			Initial Weight/Volume:	36 mL
Analysis Date:	05/04/2011 1625			Final Weight/Volume:	200 mL
Prep Date:	05/04/2011 1625			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	35	U	35
Vinyl chloride	13	U	13
1,3-Butadiene	11	U	11
Bromomethane	19	U	19
Chloroethane	33	U	33
Bromoethene(Vinyl Bromide)	22	U	22
Trichlorofluoromethane	28	U	28
1,1-Dichloroethene	20	U	20
3-Chloropropene	39	U	39
Methylene Chloride	43	U	43
Methyl tert-butyl ether	18	U	18
trans-1,2-Dichloroethene	20	U	20
n-Hexane	17	U	17
1,1-Dichloroethane	20	U	20
cis-1,2-Dichloroethene	20	U	20
1,2-Dichloroethene, Total	20	U	20
Chloroform	24	U	24
1,1,1-Trichloroethane	27	U	27
Cyclohexane	17	U	17
Carbon tetrachloride	31	U	31
2,2,4-Trimethylpentane	23	U	23
Benzene	16	U	16
1,2-Dichloroethane	20	U	20
n-Heptane	20	U	20
Trichloroethene	66		27
1,2-Dichloropropane	23	U	23
Bromodichloromethane	33	U	33
cis-1,3-Dichloropropene	23	U	23
Toluene	19	U	19
trans-1,3-Dichloropropene	23	U	23
1,1,2-Trichloroethane	27	U	27
Tetrachloroethene	3700		34
Dibromochloromethane	42	U	42
1,2-Dibromoethane	38	U	38
Ethylbenzene	22	U	22
m,p-Xylene	54	U	54
Xylene, o-	22	U	22
Xylene (total)	22	U	22
Bromoform	51	U	51
1,1,2,2-Tetrachloroethane	34	U	34
4-Ethyltoluene	24	U	24
1,3,5-Trimethylbenzene	24	U	24

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: **SSV-3**

Lab Sample ID: 200-4953-4
Client Matrix: Air

Date Sampled: 04/27/2011 1915
Date Received: 04/29/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-17560	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	cjug010.d
Dilution:	153			Initial Weight/Volume:	21 mL
Analysis Date:	05/04/2011 1714			Final Weight/Volume:	200 mL
Prep Date:	05/04/2011 1714			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	76	U	76
1,2-Dichlorotetrafluoroethane	31	U	31
Vinyl chloride	31	U	31
1,3-Butadiene	31	U	31
Bromomethane	31	U	31
Chloroethane	76	U	76
Bromoethene(Vinyl Bromide)	31	U	31
Trichlorofluoromethane	31	U	31
1,1-Dichloroethene	31	U	31
3-Chloropropene	76	U	76
Methylene Chloride	76	U	76
Methyl tert-butyl ether	31	U	31
trans-1,2-Dichloroethene	31	U	31
n-Hexane	31	U	31
1,1-Dichloroethane	31	U	31
cis-1,2-Dichloroethene	31	U	31
1,2-Dichloroethene, Total	31	U	31
Chloroform	31	U	31
1,1,1-Trichloroethane	31	U	31
Cyclohexane	31	U	31
Carbon tetrachloride	31	U	31
2,2,4-Trimethylpentane	31	U	31
Benzene	31	U	31
1,2-Dichloroethane	31	U	31
n-Heptane	31	U	31
Trichloroethene	31	U	31
1,2-Dichloropropane	31	U	31
Bromodichloromethane	31	U	31
cis-1,3-Dichloropropene	31	U	31
Toluene	31	U	31
trans-1,3-Dichloropropene	31	U	31
1,1,2-Trichloroethane	31	U	31
Tetrachloroethene	2800		31
Dibromochloromethane	31	U	31
1,2-Dibromoethane	31	U	31
Ethylbenzene	31	U	31
m,p-Xylene	76	U	76
Xylene, o-	31	U	31
Xylene (total)	31	U	31
Bromoform	31	U	31
1,1,2,2-Tetrachloroethane	31	U	31
4-Ethyltoluene	31	U	31
1,3,5-Trimethylbenzene	31	U	31

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	380	U	380

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: SSV-3

Lab Sample ID: 200-4953-4
Client Matrix: Air

Date Sampled: 04/27/2011 1915
Date Received: 04/29/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-17560	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	cjug010.d
Dilution:	153			Initial Weight/Volume:	21 mL
Analysis Date:	05/04/2011 1714			Final Weight/Volume:	200 mL
Prep Date:	05/04/2011 1714			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	210	U	210
Vinyl chloride	78	U	78
1,3-Butadiene	68	U	68
Bromomethane	120	U	120
Chloroethane	200	U	200
Bromoethene(Vinyl Bromide)	130	U	130
Trichlorofluoromethane	170	U	170
1,1-Dichloroethene	120	U	120
3-Chloropropene	240	U	240
Methylene Chloride	270	U	270
Methyl tert-butyl ether	110	U	110
trans-1,2-Dichloroethene	120	U	120
n-Hexane	110	U	110
1,1-Dichloroethane	120	U	120
cis-1,2-Dichloroethene	120	U	120
1,2-Dichloroethene, Total	120	U	120
Chloroform	150	U	150
1,1,1-Trichloroethane	170	U	170
Cyclohexane	110	U	110
Carbon tetrachloride	190	U	190
2,2,4-Trimethylpentane	140	U	140
Benzene	98	U	98
1,2-Dichloroethane	120	U	120
n-Heptane	130	U	130
Trichloroethene	160	U	160
1,2-Dichloropropane	140	U	140
Bromodichloromethane	210	U	210
cis-1,3-Dichloropropene	140	U	140
Toluene	120	U	120
trans-1,3-Dichloropropene	140	U	140
1,1,2-Trichloroethane	170	U	170
Tetrachloroethene	19000		210
Dibromochloromethane	260	U	260
1,2-Dibromoethane	240	U	240
Ethylbenzene	130	U	130
m,p-Xylene	330	U	330
Xylene, o-	130	U	130
Xylene (total)	130	U	130
Bromoform	320	U	320
1,1,2,2-Tetrachloroethane	210	U	210
4-Ethyltoluene	150	U	150
1,3,5-Trimethylbenzene	150	U	150

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: **SSV-5**

Lab Sample ID: 200-4953-6
Client Matrix: Air

Date Sampled: 04/27/2011 2100
Date Received: 04/29/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-17560	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	cjug025.d
Dilution:	199			Initial Weight/Volume:	60 mL
Analysis Date:	05/05/2011 0819			Final Weight/Volume:	200 mL
Prep Date:	05/05/2011 0819			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	100	U	100
1,2-Dichlorotetrafluoroethane	40	U	40
Vinyl chloride	40	U	40
1,3-Butadiene	40	U	40
Bromomethane	40	U	40
Chloroethane	100	U	100
Bromoethene(Vinyl Bromide)	40	U	40
Trichlorofluoromethane	40	U	40
1,1-Dichloroethene	40	U	40
3-Chloropropene	100	U	100
Methylene Chloride	100	U	100
Methyl tert-butyl ether	40	U	40
trans-1,2-Dichloroethene	40	U	40
n-Hexane	40	U	40
1,1-Dichloroethane	40	U	40
cis-1,2-Dichloroethene	40	U	40
1,2-Dichloroethene, Total	40	U	40
Chloroform	40	U	40
1,1,1-Trichloroethane	40	U	40
Cyclohexane	40	U	40
Carbon tetrachloride	40	U	40
2,2,4-Trimethylpentane	40	U	40
Benzene	40	U	40
1,2-Dichloroethane	40	U	40
n-Heptane	40	U	40
Trichloroethene	40	U	40
1,2-Dichloropropane	40	U	40
Bromodichloromethane	40	U	40
cis-1,3-Dichloropropene	40	U	40
Toluene	40	U	40
trans-1,3-Dichloropropene	40	U	40
1,1,2-Trichloroethane	40	U	40
Tetrachloroethene	4800		40
Dibromochloromethane	40	U	40
1,2-Dibromoethane	40	U	40
Ethylbenzene	40	U	40
m,p-Xylene	100	U	100
Xylene, o-	40	U	40
Xylene (total)	40	U	40
Bromoform	40	U	40
1,1,2,2-Tetrachloroethane	40	U	40
4-Ethyltoluene	40	U	40
1,3,5-Trimethylbenzene	40	U	40

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	490	U	490

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: SSV-5

Lab Sample ID: 200-4953-6
Client Matrix: Air

Date Sampled: 04/27/2011 2100
Date Received: 04/29/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-17560	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	cjug025.d
Dilution:	199			Initial Weight/Volume:	60 mL
Analysis Date:	05/05/2011 0819			Final Weight/Volume:	200 mL
Prep Date:	05/05/2011 0819			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	280	U	280
Vinyl chloride	100	U	100
1,3-Butadiene	88	U	88
Bromomethane	150	U	150
Chloroethane	260	U	260
Bromoethene(Vinyl Bromide)	170	U	170
Trichlorofluoromethane	220	U	220
1,1-Dichloroethene	160	U	160
3-Chloropropene	310	U	310
Methylene Chloride	350	U	350
Methyl tert-butyl ether	140	U	140
trans-1,2-Dichloroethene	160	U	160
n-Hexane	140	U	140
1,1-Dichloroethane	160	U	160
cis-1,2-Dichloroethene	160	U	160
1,2-Dichloroethene, Total	160	U	160
Chloroform	190	U	190
1,1,1-Trichloroethane	220	U	220
Cyclohexane	140	U	140
Carbon tetrachloride	250	U	250
2,2,4-Trimethylpentane	190	U	190
Benzene	130	U	130
1,2-Dichloroethane	160	U	160
n-Heptane	160	U	160
Trichloroethene	210	U	210
1,2-Dichloropropane	180	U	180
Bromodichloromethane	270	U	270
cis-1,3-Dichloropropene	180	U	180
Toluene	150	U	150
trans-1,3-Dichloropropene	180	U	180
1,1,2-Trichloroethane	220	U	220
Tetrachloroethene	32000		270
Dibromochloromethane	340	U	340
1,2-Dibromoethane	310	U	310
Ethylbenzene	170	U	170
m,p-Xylene	430	U	430
Xylene, o-	170	U	170
Xylene (total)	170	U	170
Bromoform	410	U	410
1,1,2,2-Tetrachloroethane	270	U	270
4-Ethyltoluene	200	U	200
1,3,5-Trimethylbenzene	200	U	200

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: **SSV-6**

Lab Sample ID: 200-4953-10
Client Matrix: Air

Date Sampled: 04/28/2011 0700
Date Received: 04/29/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-17560	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	cjug012.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	05/04/2011 1850			Final Weight/Volume:	200 mL
Prep Date:	05/04/2011 1850			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	1.0	U	1.0
1,2-Dichlorotetrafluoroethane	0.40	U	0.40
Vinyl chloride	0.40	U	0.40
1,3-Butadiene	0.40	U	0.40
Bromomethane	0.40	U	0.40
Chloroethane	1.0	U	1.0
Bromoethene(Vinyl Bromide)	0.40	U	0.40
Trichlorofluoromethane	0.51	J	0.40
1,1-Dichloroethene	0.40	U	0.40
3-Chloropropene	1.0	U	1.0
Methylene Chloride	1.0	U	1.0
Methyl tert-butyl ether	0.40	U	0.40
trans-1,2-Dichloroethene	0.40	U	0.40
n-Hexane	2.2	J	0.40
1,1-Dichloroethane	0.40	U	0.40
cis-1,2-Dichloroethene	0.40	U	0.40
1,2-Dichloroethene, Total	0.40	U	0.40
Chloroform	0.40	U	0.40
1,1,1-Trichloroethane	3.2	J	0.40
Cyclohexane	1.0	J	0.40
Carbon tetrachloride	0.40	U	0.40
2,2,4-Trimethylpentane	0.40	U	0.40
Benzene	0.82	J	0.40
1,2-Dichloroethane	0.40	U	0.40
n-Heptane	0.84	J	0.40
Trichloroethene	10	J	0.40
1,2-Dichloropropane	0.40	U	0.40
Bromodichloromethane	0.40	U	0.40
cis-1,3-Dichloropropene	0.40	U	0.40
Toluene	4.9	J	0.40
trans-1,3-Dichloropropene	0.40	U	0.40
1,1,2-Trichloroethane	0.40	U	0.40
Tetrachloroethene	51	J	0.40
Dibromochloromethane	0.40	U	0.40
1,2-Dibromoethane	0.40	U	0.40
Ethylbenzene	0.40	U	0.40
m,p-Xylene	1.0	U	1.0
Xylene, o-	0.40	U	0.40
Xylene (total)	1.2	J	0.40
Bromoform	0.40	U	0.40
1,1,2,2-Tetrachloroethane	0.40	U	0.40
4-Ethyltoluene	0.40	U	0.40
1,3,5-Trimethylbenzene	0.40	U	0.40

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	4.9	U	4.9

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: **SSV-6**

Lab Sample ID: 200-4953-10
Client Matrix: Air

Date Sampled: 04/28/2011 0700
Date Received: 04/29/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-17560	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	cjug012.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	05/04/2011 1850			Final Weight/Volume:	200 mL
Prep Date:	05/04/2011 1850			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	2.8	U	2.8
Vinyl chloride	1.0	U	1.0
1,3-Butadiene	0.88	U	0.88
Bromomethane	1.6	U	1.6
Chloroethane	2.6	U	2.6
Bromoethene(Vinyl Bromide)	1.7	U	1.7
Trichlorofluoromethane	2.9	J	2.2
1,1-Dichloroethene	1.6	U	1.6
3-Chloropropene	3.1	U	3.1
Methylene Chloride	3.5	U	3.5
Methyl tert-butyl ether	1.4	U	1.4
trans-1,2-Dichloroethene	1.6	U	1.6
n-Hexane	7.8	J	1.4
1,1-Dichloroethane	1.6	U	1.6
cis-1,2-Dichloroethene	1.6	U	1.6
1,2-Dichloroethene, Total	1.6	U	1.6
Chloroform	2.0	U	2.0
1,1,1-Trichloroethane	17	J	2.2
Cyclohexane	3.5	J	1.4
Carbon tetrachloride	2.5	U	2.5
2,2,4-Trimethylpentane	1.9	U	1.9
Benzene	2.6	J	1.3
1,2-Dichloroethane	1.6	U	1.6
n-Heptane	3.4	J	1.6
Trichloroethene	56	J	2.1
1,2-Dichloropropane	1.8	U	1.8
Bromodichloromethane	2.7	U	2.7
cis-1,3-Dichloropropene	1.8	U	1.8
Toluene	18	J	1.5
trans-1,3-Dichloropropene	1.8	U	1.8
1,1,2-Trichloroethane	2.2	U	2.2
Tetrachloroethene	350	J	2.7
Dibromochloromethane	3.4	U	3.4
1,2-Dibromoethane	3.1	U	3.1
Ethylbenzene	1.7	U	1.7
m,p-Xylene	4.3	U	4.3
Xylene, o-	1.7	U	1.7
Xylene (total)	5.1	J	1.7
Bromoform	4.1	U	4.1
1,1,2,2-Tetrachloroethane	2.7	U	2.7
4-Ethyltoluene	2.0	U	2.0
1,3,5-Trimethylbenzene	2.0	U	2.0

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: **AMB-042711**

Lab Sample ID: 200-4953-1
Client Matrix: Air

Date Sampled: 04/27/2011 1720
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17816	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejw012.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/10/2011 1920			Final Weight/Volume:	500 mL
Prep Date:	05/10/2011 1920			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.46		0.040
1,2-Dichlorotetrafluoroethane	0.040	U	0.040
Vinyl chloride	0.080	U	0.080
1,3-Butadiene	0.080	U	0.080
Bromomethane	0.080	U	0.080
Chloroethane	0.080	U	0.080
Bromoethene(Vinyl Bromide)	0.080	U	0.080
Trichlorofluoromethane	0.20		0.040
1,1-Dichloroethene	0.040	U	0.040
3-Chloropropene	0.080	U	0.080
Methylene Chloride	0.80	U	0.80
Methyl tert-butyl ether	0.040	U	0.040
trans-1,2-Dichloroethene	0.040	U	0.040
n-Hexane	0.082		0.080
1,1-Dichloroethane	0.040	U	0.040
cis-1,2-Dichloroethene	0.040	U	0.040
Chloroform	0.040	U	0.040
1,1,1-Trichloroethane	0.040	U	0.040
Cyclohexane	0.048		0.040
Carbon tetrachloride	0.076		0.040
2,2,4-Trimethylpentane	0.040	U	0.040
Benzene	0.062		0.040
1,2-Dichloroethane	0.080	U	0.080
n-Heptane	0.15		0.040
Trichloroethene	0.040	U	0.040
1,2-Dichloropropane	0.080	U	0.080
Bromodichloromethane	0.040	U	0.040
cis-1,3-Dichloropropene	0.040	U	0.040
Toluene	0.48		0.040
trans-1,3-Dichloropropene	0.040	U	0.040
1,1,2-Trichloroethane	0.040	U	0.040
Tetrachloroethene	0.040	U	0.040
Dibromochloromethane	0.040	U	0.040
1,2-Dibromoethane	0.040	U	0.040
Ethylbenzene	0.052	J	0.040
o-Xylene	0.041	J	0.040
Bromoform	0.040	U	0.040
1,1,2,2-Tetrachloroethane	0.040	U	0.040
4-Ethyltoluene	0.040	U	0.040
1,3,5-Trimethylbenzene	0.080	U	0.080
1,2-Dichloroethene, Total	0.040	U	0.040
m-Xylene & p-Xylene	0.13	J	0.080
Xylenes, Total	0.17	J	0.040

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.3		0.20

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: **AMB-042711**

Lab Sample ID: 200-4953-1
Client Matrix: Air

Date Sampled: 04/27/2011 1720
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17816	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejw012.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/10/2011 1920			Final Weight/Volume:	500 mL
Prep Date:	05/10/2011 1920			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	0.28	U	0.28
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.18	U	0.18
Bromomethane	0.31	U	0.31
Chloroethane	0.21	U	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35
Trichlorofluoromethane	1.1		0.22
1,1-Dichloroethene	0.16	U	0.16
3-Chloropropene	0.25	U	0.25
Methylene Chloride	2.8	U	2.8
Methyl tert-butyl ether	0.14	U	0.14
trans-1,2-Dichloroethene	0.16	U	0.16
n-Hexane	0.29		0.28
1,1-Dichloroethane	0.16	U	0.16
cis-1,2-Dichloroethene	0.16	U	0.16
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.22	U	0.22
Cyclohexane	0.17		0.14
Carbon tetrachloride	0.48		0.25
2,2,4-Trimethylpentane	0.19	U	0.19
Benzene	0.20		0.13
1,2-Dichloroethane	0.32	U	0.32
n-Heptane	0.60		0.16
Trichloroethene	0.21	U	0.21
1,2-Dichloropropane	0.37	U	0.37
Bromodichloromethane	0.27	U	0.27
cis-1,3-Dichloropropene	0.18	U	0.18
Toluene	1.8		0.15
trans-1,3-Dichloropropene	0.18	U	0.18
1,1,2-Trichloroethane	0.22	U	0.22
Tetrachloroethene	0.27	U	0.27
Dibromochloromethane	0.34	U	0.34
1,2-Dibromoethane	0.31	U	0.31
Ethylbenzene	0.23	J	0.17
o-Xylene	0.18	J	0.17
Bromoform	0.41	U	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.39	U	0.39
1,2-Dichloroethene, Total	0.16	U	0.16
m-Xylene & p-Xylene	0.55	J	0.35
Xylenes, Total	0.73	J	0.17

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: IA-4

Lab Sample ID: 200-4953-3
Client Matrix: Air

Date Sampled: 04/27/2011 1710
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17816	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejw013.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/10/2011 2015			Final Weight/Volume:	500 mL
Prep Date:	05/10/2011 2015			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.47		0.040
1,2-Dichlorotetrafluoroethane	0.040	U	0.040
Vinyl chloride	0.080	U	0.080
1,3-Butadiene	0.080	U	0.080
Bromomethane	0.080	U	0.080
Chloroethane	0.080	U	0.080
Bromoethene(Vinyl Bromide)	0.080	U	0.080
Trichlorofluoromethane	0.21		0.040
1,1-Dichloroethene	0.040	U	0.040
3-Chloropropene	0.080	U	0.080
Methylene Chloride	0.80	U	0.80
Methyl tert-butyl ether	0.040	U	0.040
trans-1,2-Dichloroethene	0.040	U	0.040
n-Hexane	0.20		0.080
1,1-Dichloroethane	0.040	U	0.040
cis-1,2-Dichloroethene	0.040	U	0.040
Chloroform	0.040	U	0.040
1,1,1-Trichloroethane	0.040	U	0.040
Cyclohexane	0.12		0.040
Carbon tetrachloride	0.064		0.040
2,2,4-Trimethylpentane	0.047		0.040
Benzene	0.11		0.040
1,2-Dichloroethane	0.080	U	0.080
n-Heptane	0.34		0.040
Trichloroethene	0.040	U	0.040
1,2-Dichloropropane	0.080	U	0.080
Bromodichloromethane	0.040	U	0.040
cis-1,3-Dichloropropene	0.040	U	0.040
Toluene	1.1		0.040
trans-1,3-Dichloropropene	0.040	U	0.040
1,1,2-Trichloroethane	0.040	U	0.040
Tetrachloroethene	0.094		0.040
Dibromochloromethane	0.040	U	0.040
1,2-Dibromoethane	0.040	U	0.040
Ethylbenzene	0.12	J	0.040
o-Xylene	0.13	J	0.040
Bromoform	0.040	U	0.040
1,1,2,2-Tetrachloroethane	0.040	U	0.040
4-Ethyltoluene	0.040	U	0.040
1,3,5-Trimethylbenzene	0.080	U	0.080
1,2-Dichloroethene, Total	0.040	U	0.040
m-Xylene & p-Xylene	0.34	J	0.080
Xylenes, Total	0.46	J	0.040

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.3		0.20

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: IA-4

Lab Sample ID: 200-4953-3
Client Matrix: Air

Date Sampled: 04/27/2011 1710
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17816	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejw013.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/10/2011 2015			Final Weight/Volume:	500 mL
Prep Date:	05/10/2011 2015			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	0.28	U	0.28
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.18	U	0.18
Bromomethane	0.31	U	0.31
Chloroethane	0.21	U	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35
Trichlorofluoromethane	1.2		0.22
1,1-Dichloroethene	0.16	U	0.16
3-Chloropropene	0.25	U	0.25
Methylene Chloride	2.8	U	2.8
Methyl tert-butyl ether	0.14	U	0.14
trans-1,2-Dichloroethene	0.16	U	0.16
n-Hexane	0.72		0.28
1,1-Dichloroethane	0.16	U	0.16
cis-1,2-Dichloroethene	0.16	U	0.16
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.22	U	0.22
Cyclohexane	0.42		0.14
Carbon tetrachloride	0.40		0.25
2,2,4-Trimethylpentane	0.22		0.19
Benzene	0.36		0.13
1,2-Dichloroethane	0.32	U	0.32
n-Heptane	1.4		0.16
Trichloroethene	0.21	U	0.21
1,2-Dichloropropane	0.37	U	0.37
Bromodichloromethane	0.27	U	0.27
cis-1,3-Dichloropropene	0.18	U	0.18
Toluene	4.0		0.15
trans-1,3-Dichloropropene	0.18	U	0.18
1,1,2-Trichloroethane	0.22	U	0.22
Tetrachloroethene	0.63		0.27
Dibromochloromethane	0.34	U	0.34
1,2-Dibromoethane	0.31	U	0.31
Ethylbenzene	0.52	J	0.17
o-Xylene	0.56	J	0.17
Bromoform	0.41	U	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.39	U	0.39
1,2-Dichloroethene, Total	0.16	U	0.16
m-Xylene & p-Xylene	1.5	J	0.35
Xylenes, Total	2.0	J	0.17

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: IA-3

Lab Sample ID: 200-4953-5
Client Matrix: Air

Date Sampled: 04/27/2011 1922
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17816	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejw014.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/10/2011 2109			Final Weight/Volume:	500 mL
Prep Date:	05/10/2011 2109			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.44		0.040
1,2-Dichlorotetrafluoroethane	0.040	U	0.040
Vinyl chloride	0.080	U	0.080
1,3-Butadiene	0.12		0.080
Bromomethane	0.080	U	0.080
Chloroethane	0.080	U	0.080
Bromoethene(Vinyl Bromide)	0.080	U	0.080
Trichlorofluoromethane	0.21		0.040
1,1-Dichloroethene	0.040	U	0.040
3-Chloropropene	0.080	U	0.080
Methylene Chloride	0.80	U	0.80
Methyl tert-butyl ether	0.040	U	0.040
trans-1,2-Dichloroethene	0.040	U	0.040
n-Hexane	0.56		0.080
1,1-Dichloroethane	0.040	U	0.040
cis-1,2-Dichloroethene	0.040	U	0.040
Chloroform	0.040	U	0.040
1,1,1-Trichloroethane	0.040	U	0.040
Cyclohexane	~~4.7~~ 5.3	~~E~~ D	0.040
Carbon tetrachloride	0.071		0.040
2,2,4-Trimethylpentane	0.040	U	0.040
Benzene	0.17		0.040
1,2-Dichloroethane	0.080	U	0.080
n-Heptane	~~16~~ 18	~~E~~ D	0.040
Trichloroethene	0.040	U	0.040
1,2-Dichloropropane	0.080	U	0.080
Bromodichloromethane	0.040	U	0.040
cis-1,3-Dichloropropene	0.040	U	0.040
Toluene	~~82~~ 100	~~E~~ D	0.040
trans-1,3-Dichloropropene	0.040	U	0.040
1,1,2-Trichloroethane	0.040	U	0.040
Tetrachloroethene	0.050		0.040
Dibromochloromethane	0.040	U	0.040
1,2-Dibromoethane	0.040	U	0.040
Ethylbenzene	0.57	J	0.040
o-Xylene	0.44	J	0.040
Bromoform	0.040	U	0.040
1,1,2,2-Tetrachloroethane	0.040	U	0.040
4-Ethyltoluene	0.18		0.040
1,3,5-Trimethylbenzene	0.14		0.080
1,2-Dichloroethene, Total	0.040	U	0.040
m-Xylene & p-Xylene	1.8	J	0.080
Xylenes, Total	2.2	J	0.040

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.2		0.20

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: IA-3

Lab Sample ID: 200-4953-5
Client Matrix: Air

Date Sampled: 04/27/2011 1922
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17816	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejw014.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/10/2011 2109			Final Weight/Volume:	500 mL
Prep Date:	05/10/2011 2109			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	0.28	U	0.28
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.28		0.18
Bromomethane	0.31	U	0.31
Chloroethane	0.21	U	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35
Trichlorofluoromethane	1.2		0.22
1,1-Dichloroethene	0.16	U	0.16
3-Chloropropene	0.25	U	0.25
Methylene Chloride	2.8	U	2.8
Methyl tert-butyl ether	0.14	U	0.14
trans-1,2-Dichloroethene	0.16	U	0.16
n-Hexane	2.0		0.28
1,1-Dichloroethane	0.16	U	0.16
cis-1,2-Dichloroethene	0.16	U	0.16
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.22	U	0.22
Cyclohexane	~~16~~ 18	~~E~~ + D	0.14
Carbon tetrachloride	0.45		0.25
2,2,4-Trimethylpentane	0.19	U	0.19
Benzene	0.53		0.13
1,2-Dichloroethane	0.32	U	0.32
n-Heptane	~~65~~ 74	~~E~~ + D	0.16
Trichloroethene	0.21	U	0.21
1,2-Dichloropropane	0.37	U	0.37
Bromodichloromethane	0.27	U	0.27
cis-1,3-Dichloropropene	0.18	U	0.18
Toluene	~~310~~ 380	~~E~~ + D	0.15
trans-1,3-Dichloropropene	0.18	U	0.18
1,1,2-Trichloroethane	0.22	U	0.22
Tetrachloroethene	0.34		0.27
Dibromochloromethane	0.34	U	0.34
1,2-Dibromoethane	0.31	U	0.31
Ethylbenzene	2.5	J	0.17
o-Xylene	1.9	J	0.17
Bromoform	0.41	U	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27
4-Ethyltoluene	0.87		0.20
1,3,5-Trimethylbenzene	0.70		0.39
1,2-Dichloroethene, Total	0.16	U	0.16
m-Xylene & p-Xylene	7.7	J	0.35
Xylenes, Total	9.6	J	0.17

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: IA-3

Lab Sample ID: 200-4953-5
Client Matrix: Air

Date Sampled: 04/27/2011 1922
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-18009	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejz006.d
Dilution:	149			Initial Weight/Volume:	56 mL
Analysis Date:	05/13/2011 1246	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	05/13/2011 1246			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	1.5	U	1.5
1,2-Dichlorotetrafluoroethane	1.5	U	1.5
Vinyl chloride	3.0	U	3.0
1,3-Butadiene	3.0	U	3.0
Bromomethane	3.0	U	3.0
Chloroethane	3.0	U	3.0
Bromoethene(Vinyl Bromide)	3.0	U	3.0
Trichlorofluoromethane	1.5	U	1.5
1,1-Dichloroethene	1.5	U	1.5
3-Chloropropene	3.0	U	3.0
Methylene Chloride	30	U	30
Methyl tert-butyl ether	1.5	U	1.5
trans-1,2-Dichloroethene	1.5	U	1.5
n-Hexane	3.0	U	3.0
1,1-Dichloroethane	1.5	U	1.5
cis-1,2-Dichloroethene	1.5	U	1.5
Chloroform	1.5	U	1.5
1,1,1-Trichloroethane	1.5	U	1.5
Cyclohexane	5.3	D	1.5
Carbon tetrachloride	1.5	U	1.5
2,2,4-Trimethylpentane	1.5	U	1.5
Benzene	1.5	U	1.5
1,2-Dichloroethane	3.0	U	3.0
n-Heptane	18	D	1.5
Trichloroethene	1.5	U	1.5
1,2-Dichloropropane	3.0	U	3.0
Bromodichloromethane	1.5	U	1.5
cis-1,3-Dichloropropene	1.5	U	1.5
Toluene	100	D	1.5
trans-1,3-Dichloropropene	1.5	U	1.5
1,1,2-Trichloroethane	1.5	U	1.5
Tetrachloroethene	1.5	U	1.5
Dibromochloromethane	1.5	U	1.5
1,2-Dibromoethane	1.5	U	1.5
Ethylbenzene	1.5	U	1.5
o-Xylene	1.5	U	1.5
Bromoform	1.5	U	1.5
1,1,2,2-Tetrachloroethane	1.5	U	1.5
4-Ethyltoluene	1.5	U	1.5
1,3,5-Trimethylbenzene	3.0	U	3.0
1,2-Dichloroethene, Total	1.5	U	1.5
m-Xylene & p-Xylene	3.0	U	3.0
Xylenes, Total	2.1	D	1.5

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	7.4	U	7.4

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: IA-3

Lab Sample ID: 200-4953-5
Client Matrix: Air

Date Sampled: 04/27/2011 1922
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-18009	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejz006.d
Dilution:	149			Initial Weight/Volume:	56 mL
Analysis Date:	05/13/2011 1246	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	05/13/2011 1246			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	10	U	10
Vinyl chloride	7.6	U	7.6
1,3-Butadiene	6.6	U	6.6
Bromomethane	12	U	12
Chloroethane	7.9	U	7.9
Bromoethene(Vinyl Bromide)	13	U	13
Trichlorofluoromethane	8.4	U	8.4
1,1-Dichloroethene	5.9	U	5.9
3-Chloropropene	9.3	U	9.3
Methylene Chloride	100	U	100
Methyl tert-butyl ether	5.4	U	5.4
trans-1,2-Dichloroethene	5.9	U	5.9
n-Hexane	11	U	11
1,1-Dichloroethane	6.0	U	6.0
cis-1,2-Dichloroethene	5.9	U	5.9
Chloroform	7.3	U	7.3
1,1,1-Trichloroethane	8.1	U	8.1
Cyclohexane	18	D	5.1
Carbon tetrachloride	9.4	U	9.4
2,2,4-Trimethylpentane	7.0	U	7.0
Benzene	4.8	U	4.8
1,2-Dichloroethane	12	U	12
n-Heptane	74	D	6.1
Trichloroethene	8.0	U	8.0
1,2-Dichloropropane	14	U	14
Bromodichloromethane	10	U	10
cis-1,3-Dichloropropene	6.8	U	6.8
Toluene	380	D	5.6
trans-1,3-Dichloropropene	6.8	U	6.8
1,1,2-Trichloroethane	8.1	U	8.1
Tetrachloroethene	10	U	10
Dibromochloromethane	13	U	13
1,2-Dibromoethane	11	U	11
Ethylbenzene	6.5	U	6.5
o-Xylene	6.5	U	6.5
Bromoform	15	U	15
1,1,2,2-Tetrachloroethane	10	U	10
4-Ethyltoluene	7.3	U	7.3
1,3,5-Trimethylbenzene	15	U	15
1,2-Dichloroethene, Total	5.9	U	5.9
m-Xylene & p-Xylene	13	U	13
Xylenes, Total	8.9	D	6.5

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: IA-5

Lab Sample ID: 200-4953-7
Client Matrix: Air

Date Sampled: 04/27/2011 2040
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17816	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejw015.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/10/2011 2204			Final Weight/Volume:	500 mL
Prep Date:	05/10/2011 2204			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.44		0.040
1,2-Dichlorotetrafluoroethane	0.040	U	0.040
Vinyl chloride	0.17		0.080
1,3-Butadiene	0.092		0.080
Bromomethane	0.080	U	0.080
Chloroethane	0.080	U	0.080
Bromoethene(Vinyl Bromide)	0.080	U	0.080
Trichlorofluoromethane	0.29		0.040
1,1-Dichloroethene	0.040	U	0.040
3-Chloropropene	0.080	U	0.080
Methylene Chloride	0.80	U	0.80
Methyl tert-butyl ether	0.040	U	0.040
trans-1,2-Dichloroethene	0.040	U	0.040
n-Hexane	0.71		0.080
1,1-Dichloroethane	0.040	U	0.040
cis-1,2-Dichloroethene	0.040	U	0.040
Chloroform	0.040	U	0.040
1,1,1-Trichloroethane	0.040	U	0.040
Cyclohexane	3.9		0.040
Carbon tetrachloride	0.071		0.040
2,2,4-Trimethylpentane	0.040	U	0.040
Benzene	0.15		0.040
1,2-Dichloroethane	0.080	U	0.080
n-Heptane	~~12~~ 13	~~E~~ D	0.040
Trichloroethene	0.040	U	0.040
1,2-Dichloropropane	0.080	U	0.080
Bromodichloromethane	0.040	U	0.040
cis-1,3-Dichloropropene	0.040	U	0.040
Toluene	~~58~~ 71	~~E~~ D	0.040
trans-1,3-Dichloropropene	0.040	U	0.040
1,1,2-Trichloroethane	0.040	U	0.040
Tetrachloroethene	0.46		0.040
Dibromochloromethane	0.040	U	0.040
1,2-Dibromoethane	0.040	U	0.040
Ethylbenzene	0.70	J	0.040
o-Xylene	0.50	J	0.040
Bromoform	0.040	U	0.040
1,1,2,2-Tetrachloroethane	0.040	U	0.040
4-Ethyltoluene	0.25		0.040
1,3,5-Trimethylbenzene	0.18		0.080
1,2-Dichloroethene, Total	0.040	U	0.040
m-Xylene & p-Xylene	2.1	J	0.080
Xylenes, Total	2.6	J	0.040

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.2		0.20

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: IA-5

Lab Sample ID: 200-4953-7
Client Matrix: Air

Date Sampled: 04/27/2011 2040
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17816	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejw015.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/10/2011 2204			Final Weight/Volume:	500 mL
Prep Date:	05/10/2011 2204			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	0.28	U	0.28
Vinyl chloride	0.44		0.20
1,3-Butadiene	0.20		0.18
Bromomethane	0.31	U	0.31
Chloroethane	0.21	U	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35
Trichlorofluoromethane	1.6		0.22
1,1-Dichloroethene	0.16	U	0.16
3-Chloropropene	0.25	U	0.25
Methylene Chloride	2.8	U	2.8
Methyl tert-butyl ether	0.14	U	0.14
trans-1,2-Dichloroethene	0.16	U	0.16
n-Hexane	2.5		0.28
1,1-Dichloroethane	0.16	U	0.16
cis-1,2-Dichloroethene	0.16	U	0.16
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.22	U	0.22
Cyclohexane	13		0.14
Carbon tetrachloride	0.45		0.25
2,2,4-Trimethylpentane	0.19	U	0.19
Benzene	0.47		0.13
1,2-Dichloroethane	0.32	U	0.32
n-Heptane	~~49~~ 53	~~E~~ J D	0.16
Trichloroethene	0.21	U	0.21
1,2-Dichloropropane	0.37	U	0.37
Bromodichloromethane	0.27	U	0.27
cis-1,3-Dichloropropene	0.18	U	0.18
Toluene	~~260~~ 270	~~E~~ J D	0.15
trans-1,3-Dichloropropene	0.18	U	0.18
1,1,2-Trichloroethane	0.22	U	0.22
Tetrachloroethene	3.1		0.27
Dibromochloromethane	0.34	U	0.34
1,2-Dibromoethane	0.31	U	0.31
Ethylbenzene	3.0	J	0.17
o-Xylene	2.2	J	0.17
Bromoform	0.41	U	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27
4-Ethyltoluene	1.2		0.20
1,3,5-Trimethylbenzene	0.89		0.39
1,2-Dichloroethene, Total	0.16	U	0.16
m-Xylene & p-Xylene	9.2	J	0.35
Xylenes, Total	11	J	0.17

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: IA-5

Lab Sample ID: 200-4953-7
Client Matrix: Air

Date Sampled: 04/27/2011 2040
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-18009	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejz007.d
Dilution:	101			Initial Weight/Volume:	61 mL
Analysis Date:	05/13/2011 1340	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	05/13/2011 1340			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	1.0	U	1.0
1,2-Dichlorotetrafluoroethane	1.0	U	1.0
Vinyl chloride	2.0	U	2.0
1,3-Butadiene	2.0	U	2.0
Bromomethane	2.0	U	2.0
Chloroethane	2.0	U	2.0
Bromoethene(Vinyl Bromide)	2.0	U	2.0
Trichlorofluoromethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
3-Chloropropene	2.0	U	2.0
Methylene Chloride	20	U	20
Methyl tert-butyl ether	1.0	U	1.0
trans-1,2-Dichloroethene	1.0	U	1.0
n-Hexane	2.0	U	2.0
1,1-Dichloroethane	1.0	U	1.0
cis-1,2-Dichloroethene	1.0	U	1.0
Chloroform	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
Cyclohexane	4.5	D	1.0
Carbon tetrachloride	1.0	U	1.0
2,2,4-Trimethylpentane	1.0	U	1.0
Benzene	1.0	U	1.0
1,2-Dichloroethane	2.0	U	2.0
n-Heptane	13	D	1.0
Trichloroethene	1.0	U	1.0
1,2-Dichloropropane	2.0	U	2.0
Bromodichloromethane	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
Toluene	71	D	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
Tetrachloroethene	1.0	U	1.0
Dibromochloromethane	1.0	U	1.0
1,2-Dibromoethane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0
o-Xylene	1.0	U	1.0
Bromoform	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0
4-Ethyltoluene	1.0	U	1.0
1,3,5-Trimethylbenzene	2.0	U	2.0
1,2-Dichloroethene, Total	1.0	U	1.0
m-Xylene & p-Xylene	2.0	D	2.0
Xylenes, Total	2.0	D	1.0

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	5.0	U	5.0

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: IA-5

Lab Sample ID: 200-4953-7
Client Matrix: Air

Date Sampled: 04/27/2011 2040
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-18009	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejz007.d
Dilution:	101			Initial Weight/Volume:	61 mL
Analysis Date:	05/13/2011 1340	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	05/13/2011 1340			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	7.1	U	7.1
Vinyl chloride	5.2	U	5.2
1,3-Butadiene	4.5	U	4.5
Bromomethane	7.8	U	7.8
Chloroethane	5.3	U	5.3
Bromoethene(Vinyl Bromide)	8.8	U	8.8
Trichlorofluoromethane	5.7	U	5.7
1,1-Dichloroethene	4.0	U	4.0
3-Chloropropene	6.3	U	6.3
Methylene Chloride	70	U	70
Methyl tert-butyl ether	3.6	U	3.6
trans-1,2-Dichloroethene	4.0	U	4.0
n-Hexane	7.1	U	7.1
1,1-Dichloroethane	4.1	U	4.1
cis-1,2-Dichloroethene	4.0	U	4.0
Chloroform	4.9	U	4.9
1,1,1-Trichloroethane	5.5	U	5.5
Cyclohexane	15	D	3.5
Carbon tetrachloride	6.4	U	6.4
2,2,4-Trimethylpentane	4.7	U	4.7
Benzene	3.2	U	3.2
1,2-Dichloroethane	8.2	U	8.2
n-Heptane	53	D	4.1
Trichloroethene	5.4	U	5.4
1,2-Dichloropropane	9.3	U	9.3
Bromodichloromethane	6.8	U	6.8
cis-1,3-Dichloropropene	4.6	U	4.6
Toluene	270	D	3.8
trans-1,3-Dichloropropene	4.6	U	4.6
1,1,2-Trichloroethane	5.5	U	5.5
Tetrachloroethene	6.9	U	6.9
Dibromochloromethane	8.6	U	8.6
1,2-Dibromoethane	7.8	U	7.8
Ethylbenzene	4.4	U	4.4
o-Xylene	4.4	U	4.4
Bromoform	10	U	10
1,1,2,2-Tetrachloroethane	6.9	U	6.9
4-Ethyltoluene	5.0	U	5.0
1,3,5-Trimethylbenzene	9.9	U	9.9
1,2-Dichloroethene, Total	4.0	U	4.0
m-Xylene & p-Xylene	8.6	D	8.8
Xylenes, Total	8.6	D	4.4

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: IA-6

Lab Sample ID: 200-4953-8
Client Matrix: Air

Date Sampled: 04/27/2011 2315
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17816	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejw016.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/10/2011 2258			Final Weight/Volume:	500 mL
Prep Date:	05/10/2011 2258			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.48		0.040
1,2-Dichlorotetrafluoroethane	0.040	U	0.040
Vinyl chloride	0.080	U	0.080
1,3-Butadiene	0.080	U	0.080
Bromomethane	0.080	U	0.080
Chloroethane	0.080	U	0.080
Bromoethene(Vinyl Bromide)	0.080	U	0.080
Trichlorofluoromethane	0.36		0.040
1,1-Dichloroethene	0.040	U	0.040
3-Chloropropene	0.080	U	0.080
Methylene Chloride	0.80	U	0.80
Methyl tert-butyl ether	0.040	U	0.040
trans-1,2-Dichloroethene	0.040	U	0.040
n-Hexane	0.26		0.080
1,1-Dichloroethane	0.040	U	0.040
cis-1,2-Dichloroethene	0.040	U	0.040
Chloroform	0.040	U	0.040
1,1,1-Trichloroethane	0.040	U	0.040
Cyclohexane	0.88		0.040
Carbon tetrachloride	0.067		0.040
2,2,4-Trimethylpentane	0.15		0.040
Benzene	0.15		0.040
1,2-Dichloroethane	0.080	U	0.080
n-Heptane	2.6		0.040
Trichloroethene	0.040	U	0.040
1,2-Dichloropropane	0.080	U	0.080
Bromodichloromethane	0.040	U	0.040
cis-1,3-Dichloropropene	0.040	U	0.040
Toluene	~~16~~ 15	~~EJ~~ D	0.040
trans-1,3-Dichloropropene	0.040	U	0.040
1,1,2-Trichloroethane	0.040	U	0.040
Tetrachloroethene	0.53		0.040
Dibromochloromethane	0.040	U	0.040
1,2-Dibromoethane	0.040	U	0.040
Ethylbenzene	0.21	J	0.040
o-Xylene	0.20	J	0.040
Bromoform	0.040	U	0.040
1,1,2,2-Tetrachloroethane	0.040	U	0.040
4-Ethyltoluene	0.067		0.040
1,3,5-Trimethylbenzene	0.080	U	0.080
1,2-Dichloroethene, Total	0.040	U	0.040
m-Xylene & p-Xylene	0.63	J	0.080
Xylenes, Total	0.83	J	0.040

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.4		0.20

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: IA-6

Lab Sample ID: 200-4953-8
Client Matrix: Air

Date Sampled: 04/27/2011 2315
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17816	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejw016.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/10/2011 2258			Final Weight/Volume:	500 mL
Prep Date:	05/10/2011 2258			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	0.28	U	0.28
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.18	U	0.18
Bromomethane	0.31	U	0.31
Chloroethane	0.21	U	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35
Trichlorofluoromethane	2.0		0.22
1,1-Dichloroethene	0.16	U	0.16
3-Chloropropene	0.25	U	0.25
Methylene Chloride	2.8	U	2.8
Methyl tert-butyl ether	0.14	U	0.14
trans-1,2-Dichloroethene	0.16	U	0.16
n-Hexane	0.92		0.28
1,1-Dichloroethane	0.16	U	0.16
cis-1,2-Dichloroethene	0.16	U	0.16
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.22	U	0.22
Cyclohexane	3.0		0.14
Carbon tetrachloride	0.42		0.25
2,2,4-Trimethylpentane	0.68		0.19
Benzene	0.47		0.13
1,2-Dichloroethane	0.32	U	0.32
n-Heptane	11		0.16
Trichloroethene	0.21	U	0.21
1,2-Dichloropropane	0.37	U	0.37
Bromodichloromethane	0.27	U	0.27
cis-1,3-Dichloropropene	0.18	U	0.18
Toluene	~~61~~ 56	~~E~~ D	0.15
trans-1,3-Dichloropropene	0.18	U	0.18
1,1,2-Trichloroethane	0.22	U	0.22
Tetrachloroethene	3.6		0.27
Dibromochloromethane	0.34	U	0.34
1,2-Dibromoethane	0.31	U	0.31
Ethylbenzene	0.89	J	0.17
o-Xylene	0.87	J	0.17
Bromoform	0.41	U	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27
4-Ethyltoluene	0.33		0.20
1,3,5-Trimethylbenzene	0.39	U	0.39
1,2-Dichloroethene, Total	0.16	U	0.16
m-Xylene & p-Xylene	2.7	J	0.35
Xylenes, Total	3.6	J	0.17

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: IA-6

Lab Sample ID: 200-4953-8
Client Matrix: Air

Date Sampled: 04/27/2011 2315
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-18009	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejz008.d
Dilution:	40.8			Initial Weight/Volume:	50 mL
Analysis Date:	05/13/2011 1435	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	05/13/2011 1435			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.52	D	0.41
1,2-Dichlorotetrafluoroethane	0.41	U	0.41
Vinyl chloride	0.82	U	0.82
1,3-Butadiene	0.82	U	0.82
Bromomethane	0.82	U	0.82
Chloroethane	0.82	U	0.82
Bromoethene(Vinyl Bromide)	0.82	U	0.82
Trichlorofluoromethane	0.42	D	0.41
1,1-Dichloroethene	0.41	U	0.41
3-Chloropropene	0.82	U	0.82
Methylene Chloride	8.2	U	8.2
Methyl tert-butyl ether	0.41	U	0.41
trans-1,2-Dichloroethene	0.41	U	0.41
n-Hexane	0.82	U	0.82
1,1-Dichloroethane	0.41	U	0.41
cis-1,2-Dichloroethene	0.41	U	0.41
Chloroform	0.41	U	0.41
1,1,1-Trichloroethane	0.41	U	0.41
Cyclohexane	0.96	D	0.41
Carbon tetrachloride	0.41	U	0.41
2,2,4-Trimethylpentane	0.41	U	0.41
Benzene	0.41	U	0.41
1,2-Dichloroethane	0.82	U	0.82
n-Heptane	3.3	D	0.41
Trichloroethene	0.41	U	0.41
1,2-Dichloropropane	0.82	U	0.82
Bromodichloromethane	0.41	U	0.41
cis-1,3-Dichloropropene	0.41	U	0.41
Toluene	15	D	0.41
trans-1,3-Dichloropropene	0.41	U	0.41
1,1,2-Trichloroethane	0.41	U	0.41
Tetrachloroethene	0.69	D	0.41
Dibromochloromethane	0.41	U	0.41
1,2-Dibromoethane	0.41	U	0.41
Ethylbenzene	0.41	U	0.41
o-Xylene	0.41	U	0.41
Bromoform	0.41	U	0.41
1,1,2,2-Tetrachloroethane	0.41	U	0.41
4-Ethyltoluene	0.41	U	0.41
1,3,5-Trimethylbenzene	0.82	U	0.82
1,2-Dichloroethene, Total	0.41	U	0.41
m-Xylene & p-Xylene	0.82	U	0.82
Xylenes, Total	0.47	D	0.41

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.6	D	2.0

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: IA-6

Lab Sample ID: 200-4953-8
Client Matrix: Air

Date Sampled: 04/27/2011 2315
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-18009	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejz008.d
Dilution:	40.8			Initial Weight/Volume:	50 mL
Analysis Date:	05/13/2011 1435	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	05/13/2011 1435			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	2.9	U	2.9
Vinyl chloride	2.1	U	2.1
1,3-Butadiene	1.8	U	1.8
Bromomethane	3.2	U	3.2
Chloroethane	2.2	U	2.2
Bromoethene(Vinyl Bromide)	3.6	U	3.6
Trichlorofluoromethane	2.4	D	2.3
1,1-Dichloroethene	1.6	U	1.6
3-Chloropropene	2.6	U	2.6
Methylene Chloride	28	U	28
Methyl tert-butyl ether	1.5	U	1.5
trans-1,2-Dichloroethene	1.6	U	1.6
n-Hexane	2.9	U	2.9
1,1-Dichloroethane	1.7	U	1.7
cis-1,2-Dichloroethene	1.6	U	1.6
Chloroform	2.0	U	2.0
1,1,1-Trichloroethane	2.2	U	2.2
Cyclohexane	3.3	D	1.4
Carbon tetrachloride	2.6	U	2.6
2,2,4-Trimethylpentane	1.9	U	1.9
Benzene	1.3	U	1.3
1,2-Dichloroethane	3.3	U	3.3
n-Heptane	14	D	1.7
Trichloroethene	2.2	U	2.2
1,2-Dichloropropane	3.8	U	3.8
Bromodichloromethane	2.7	U	2.7
cis-1,3-Dichloropropene	1.9	U	1.9
Toluene	56	D	1.5
trans-1,3-Dichloropropene	1.9	U	1.9
1,1,2-Trichloroethane	2.2	U	2.2
Tetrachloroethene	4.7	D	2.8
Dibromochloromethane	3.5	U	3.5
1,2-Dibromoethane	3.1	U	3.1
Ethylbenzene	1.8	U	1.8
o-Xylene	1.8	U	1.8
Bromoform	4.2	U	4.2
1,1,2,2-Tetrachloroethane	2.8	U	2.8
4-Ethyltoluene	2.0	U	2.0
1,3,5-Trimethylbenzene	4.0	U	4.0
1,2-Dichloroethene, Total	1.6	U	1.6
m-Xylene & p-Xylene	3.5	U	3.5
Xylenes, Total	2.1	D	1.8

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: DUP2-4/27/11

Lab Sample ID: 200-4953-9
Client Matrix: Air

Date Sampled: 04/27/2011 0000
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17816	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejw017.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/10/2011 2353			Final Weight/Volume:	500 mL
Prep Date:	05/10/2011 2353			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.46		0.040
1,2-Dichlorotetrafluoroethane	0.040	U	0.040
Vinyl chloride	0.20		0.080
1,3-Butadiene	0.080	U	0.080
Bromomethane	0.080	U	0.080
Chloroethane	0.080	U	0.080
Bromoethene(Vinyl Bromide)	0.080	U	0.080
Trichlorofluoromethane	0.29		0.040
1,1-Dichloroethene	0.040	U	0.040
3-Chloropropene	0.080	U	0.080
Methylene Chloride	0.80	U	0.80
Methyl tert-butyl ether	0.040	U	0.040
trans-1,2-Dichloroethene	0.040	U	0.040
n-Hexane	0.65		0.080
1,1-Dichloroethane	0.040	U	0.040
cis-1,2-Dichloroethene	0.040	U	0.040
Chloroform	0.040	U	0.040
1,1,1-Trichloroethane	0.040	U	0.040
Cyclohexane	4.1	~~E~~ D	0.040
Carbon tetrachloride	0.073		0.040
2,2,4-Trimethylpentane	0.040	U	0.040
Benzene	0.14		0.040
1,2-Dichloroethane	0.080	U	0.080
n-Heptane	~~12~~ 15	~~E~~ D	0.040
Trichloroethene	0.040	U	0.040
1,2-Dichloropropane	0.080	U	0.080
Bromodichloromethane	0.040	U	0.040
cis-1,3-Dichloropropene	0.040	U	0.040
Toluene	~~71~~ 100	~~E~~ EDJ	0.040
trans-1,3-Dichloropropene	0.040	U	0.040
1,1,2-Trichloroethane	0.040	U	0.040
Tetrachloroethene	0.45		0.040
Dibromochloromethane	0.040	U	0.040
1,2-Dibromoethane	0.040	U	0.040
Ethylbenzene	0.68	J	0.040
o-Xylene	0.47	J	0.040
Bromoform	0.040	U	0.040
1,1,2,2-Tetrachloroethane	0.040	U	0.040
4-Ethyltoluene	0.26		0.040
1,3,5-Trimethylbenzene	0.19		0.080
1,2-Dichloroethene, Total	0.040	U	0.040
m-Xylene & p-Xylene	2.1	J	0.080
Xylenes, Total	2.5	J	0.040

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.3		0.20

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: DUP2-4/27/11

Lab Sample ID: 200-4953-9
Client Matrix: Air

Date Sampled: 04/27/2011 0000
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17816	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejw017.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/10/2011 2353			Final Weight/Volume:	500 mL
Prep Date:	05/10/2011 2353			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	0.28	U	0.28
Vinyl chloride	0.50		0.20
1,3-Butadiene	0.18	U	0.18
Bromomethane	0.31	U	0.31
Chloroethane	0.21	U	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35
Trichlorofluoromethane	1.6		0.22
1,1-Dichloroethene	0.16	U	0.16
3-Chloropropene	0.25	U	0.25
Methylene Chloride	2.8	U	2.8
Methyl tert-butyl ether	0.14	U	0.14
trans-1,2-Dichloroethene	0.16	U	0.16
n-Hexane	2.3		0.28
1,1-Dichloroethane	0.16	U	0.16
cis-1,2-Dichloroethene	0.16	U	0.16
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.22	U	0.22
Cyclohexane	14	~~E~~ D	0.14
Carbon tetrachloride	0.46		0.25
2,2,4-Trimethylpentane	0.19	U	0.19
Benzene	0.45		0.13
1,2-Dichloroethane	0.32	U	0.32
n-Heptane	~~49~~ 63	~~E~~ D	0.16
Trichloroethene	0.21	U	0.21
1,2-Dichloropropane	0.37	U	0.37
Bromodichloromethane	0.27	U	0.27
cis-1,3-Dichloropropene	0.18	U	0.18
Toluene	~~270~~ 380	~~E~~ EDJ	0.15
trans-1,3-Dichloropropene	0.18	U	0.18
1,1,2-Trichloroethane	0.22	U	0.22
Tetrachloroethene	3.0		0.27
Dibromochloromethane	0.34	U	0.34
1,2-Dibromoethane	0.31	U	0.31
Ethylbenzene	3.0	J	0.17
o-Xylene	2.1	J	0.17
Bromoform	0.41	U	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27
4-Ethyltoluene	1.3		0.20
1,3,5-Trimethylbenzene	0.91		0.39
1,2-Dichloroethene, Total	0.16	U	0.16
m-Xylene & p-Xylene	8.9	J	0.35
Xylenes, Total	11	J	0.17

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: DUP2-4/27/11

Lab Sample ID: 200-4953-9
Client Matrix: Air

Date Sampled: 04/27/2011 0000
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds In Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-18009	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejz009.d
Dilution:	100			Initial Weight/Volume:	63 mL
Analysis Date:	05/13/2011 1529	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	05/13/2011 1529			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	1.0	U	1.0
1,2-Dichlorotetrafluoroethane	1.0	U	1.0
Vinyl chloride	2.0	U	2.0
1,3-Butadiene	2.0	U	2.0
Bromomethane	2.0	U	2.0
Chloroethane	2.0	U	2.0
Bromoethene(Vinyl Bromide)	2.0	U	2.0
Trichlorofluoromethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
3-Chloropropene	2.0	U	2.0
Methylene Chloride	20	U	20
Methyl tert-butyl ether	1.0	U	1.0
trans-1,2-Dichloroethene	1.0	U	1.0
n-Hexane	2.0	U	2.0
1,1-Dichloroethane	1.0	U	1.0
cis-1,2-Dichloroethene	1.0	U	1.0
Chloroform	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
Cyclohexane	4.1	D	1.0
Carbon tetrachloride	1.0	U	1.0
2,2,4-Trimethylpentane	1.0	U	1.0
Benzene	1.0	U	1.0
1,2-Dichloroethane	2.0	U	2.0
n-Heptane	15	D	1.0
Trichloroethene	1.0	U	1.0
1,2-Dichloropropane	2.0	U	2.0
Bromodichloromethane	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
Toluene	100	E D	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
Tetrachloroethene	1.0	U	1.0
Dibromochloromethane	1.0	U	1.0
1,2-Dibromoethane	1.0	U	1.0
Ethylbenzene	1.2	D	1.0
o-Xylene	1.0	U	1.0
Bromoform	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0
4-Ethyltoluene	1.0	U	1.0
1,3,5-Trimethylbenzene	2.0	U	2.0
1,2-Dichloroethene, Total	1.0	U	1.0
m-Xylene & p-Xylene	2.7	D	2.0
Xylenes, Total	3.4	D	1.0

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	4.9	U	4.9

Client: ARCADIS U.S. Inc

Job Number: 200-4953-1
Sdg Number: 200-4953

Client Sample ID: DUP2-4/27/11

Lab Sample ID: 200-4953-9
Client Matrix: Air

Date Sampled: 04/27/2011 0000
Date Received: 04/29/2011 1020

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-18009	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejz009.d
Dilution:	100			Initial Weight/Volume:	63 mL
Analysis Date:	05/13/2011 1529	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	05/13/2011 1529			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	7.0	U	7.0
Vinyl chloride	5.1	U	5.1
1,3-Butadiene	4.4	U	4.4
Bromomethane	7.8	U	7.8
Chloroethane	5.3	U	5.3
Bromoethene(Vinyl Bromide)	8.7	U	8.7
Trichlorofluoromethane	5.6	U	5.6
1,1-Dichloroethene	4.0	U	4.0
3-Chloropropene	6.3	U	6.3
Methylene Chloride	69	U	69
Methyl tert-butyl ether	3.6	U	3.6
trans-1,2-Dichloroethene	4.0	U	4.0
n-Hexane	7.0	U	7.0
1,1-Dichloroethane	4.0	U	4.0
cis-1,2-Dichloroethene	4.0	U	4.0
Chloroform	4.9	U	4.9
1,1,1-Trichloroethane	5.5	U	5.5
Cyclohexane	14	D	3.4
Carbon tetrachloride	6.3	U	6.3
2,2,4-Trimethylpentane	4.7	U	4.7
Benzene	3.2	U	3.2
1,2-Dichloroethane	8.1	U	8.1
n-Heptane	63	D	4.1
Trichloroethene	5.4	U	5.4
1,2-Dichloropropane	9.2	U	9.2
Bromodichloromethane	6.7	U	6.7
cis-1,3-Dichloropropene	4.5	U	4.5
Toluene	380	E D	3.8
trans-1,3-Dichloropropene	4.5	U	4.5
1,1,2-Trichloroethane	5.5	U	5.5
Tetrachloroethene	6.8	U	6.8
Dibromochloromethane	8.5	U	8.5
1,2-Dibromoethane	7.7	U	7.7
Ethylbenzene	5.1	D	4.3
o-Xylene	4.3	U	4.3
Bromoform	10	U	10
1,1,2,2-Tetrachloroethane	6.9	U	6.9
4-Ethyltoluene	4.9	U	4.9
1,3,5-Trimethylbenzene	9.8	U	9.8
1,2-Dichloroethene, Total	4.0	U	4.0
m-Xylene & p-Xylene	12	D	8.7
Xylenes, Total	15	D	4.3

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: John Brassel	Samples Collected By: DZ / LH	1 of 2 COCs
Company: ARCADIS	Phone: (315) 671-9441		
Address: 6723 Towpath Road	Email: John.Brassel@ARCADIS-US.com		
City/State/Zip: Syracuse, NY 13214-0066			
Phone: (315) 446-9120	Site Contact: Dan Zuck		
FAX: (315) 449-4111	TA Contact: Don Dawicki		
Project Name: Bayer Hicksville	**Analysis Turnaround Time**		
Site: 1 Empire Drive Hicksville, NY	Standard (Specify) 15 day		
PO # B0032305.0004.00003	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum In Field, "Hg (Start)	Canister Vacuum In Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	~~TO-14A~~ TO-15 Low Level	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type: Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
AMB-042711	4/27/11	9:56	1720	-30	-6.09	K349	4922		1						✓			
SSV-4	4/27/11	1015	1730	-29.75	-6.07	K469	3150	1						✓				✓
IA-4	4/27/11	950	1710	-29	-3.42	K368	4235		1					✓				
SSV-3	4/27/11	1200	1915	-28.75	-3.99	K343	2748	1										✓
IA-3	4/27/11	1200	1922	-30	-5.21	K369	4569		1					✓				
SSV-5	4/27/11	1325	2100	-30	-4.55	K477	4334	1										✓

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:
Send results to Attn: Andy Enigk
Other = Sub-Slab Vapor

Samples Shipped by: Dan Zuck	Date/Time: 4/28/11 1600	Samples Received by: 4/29/11 1090
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

Lab Use Only Shipper Name: Opened by: Condition:

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: John Brussel	Samples Collected By: DZ/LH	2 of 2 COCs
Company: ARCADIS	Phone: (315) 671-9441		
Address: 6723 Towpath Rd	Email: John.Brussel@ARCADIS-US.com		
City/State/Zip: Syracuse NY 13214-0066			
Phone: (315) 446-9120	Site Contact: Dan Zuck		
FAX: (315) 449-4111	TA Contact: Dan Dawicki		
Project Name: Bayer Hicksville	Analysis Turnaround Time		
Site: 1 Empire Drive Hicksville, NY	Standard (Specify) 15 day		
PO # B0032305.0004.00003	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	NOMA TO-15 Low level	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type: Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
IA-5	4/27/11	1325	2040	-30	-4.55	K130	3029		1					✓				
~~SSV-6~~	~~4/27/11~~	~~1505~~	~~2305~~	~~-29.5~~		~~K298~~	~~3885~~	~~1~~										
IA-6	4/27/11	1505	2315	-32	-3.9	K359	4356		1					✓				
DUP2-4/27/11	4/27/11	—	—	~~-30~~ -30	-6.2	K307	5074		1					✓				
SSV-6	4/28/11	1338 4/27/11	700 4/28/11	-30	-6.03	K281	3669	1										X
~~IA-2~~	~~4/28/11~~	~~1005~~		~~-30~~		~~K285~~	~~3670~~		~~1~~									

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (Inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:
Send Results to Attn: Andy Enick
Other = SubSlab Depressurization
* DUP2-4/27/11 Initial Pressure = -29.5 DONT SAMPLE Vapor Canister 3885

Samples Shipped by: Dan Zuck	Date/Time: 4/28/11 1600	Samples Received by:	4/29/11 1020
Samples Relinquished by:	Date/Time:	Received by:	
Relinquished by:	Date/Time:	Received by:	

Lab Use Only Shipper Name: Opened by: Condition:

ARCADIS
Infrastructure · Water · Environment · Buildings

Imagine the result

Bayer Material Science

Data Usability Summary Report

HICKSVILLE, NEW YORK

Volatile Analyses

SDG# 200-5075

Analyses Performed By:
TestAmerica Laboratories
Burlington, Vermont

Report: # 14193R
Project: B0032305.0004.00003

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #200-5075 for samples collected in association with the Bayer site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
IA-7_050511	200-5075-1	AIR	5/5/2011		X				
AMB_050511	200-5075-2	AIR	5/5/2011		X				
IA-8_050511	200-5075-3	AIR	5/5/2011		X				
DUP 050511	200-5075-4	AIR	5/5/2011	IA-8_050511	X				

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method TO-15. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999, USEPA Region II SOP HW-31- Validating Air Samples Volatile Organic Analysis of Ambient Air In Canister by Method TO-15 of October 2006, New York State DEC Analytical Method ASP 2005 TO-15 (QA/QC Criteria R9 TO-15), NYSDEC Modifications to R9 TO-15 QA/QC Criteria February 2008 and NYSDEC Proposed Change to the ASP Regarding Canister Vacuum June 26, 2009.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation	Return Canister Pressure
EPA TO-15	Air	30 days from collection to analysis	Ambient Temperature	> 1" Hg

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL.

3. Mass Spectrometer Tuning

Sample locations IA-7_050511, AMB_050511, IA-8_050511, and DUP 050511 were compliant with the Method TO-15 requirement of analysis within a 24-hour tune clock but not compliant with the NYSDEC requirement of analysis within a 12-hour tune clock. The data was not qualified.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (30%) and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (30%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than 40% or less than 40% of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the established acceptance limits of 70% to 130%.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

7. Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for air matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of three times the RL is applied for air matrices.

Laboratory duplicates were not performed as part of this SDG.

8. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 100% for air matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of three times the RL is applied for air matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
IA-8_050511/DUP 050511	1,3,5-Trimethylbenzene	0.79	0.8	AC
	4-Ethyltoluene	0.48	0.33	AC
	Benzene	0.27	0.26	AC
	Carbon tetrachloride	0.45	0.4	AC
	Cyclohexane	2.8	3.4	19.3 %
	Dichlorodifluoromethane	2.1	2.1	0 %
	Ethylbenzene	0.51	0.45	AC
	Methylene Chloride	22	22	0 %
	m-Xylene & p-Xylene	1.6	1.4	AC
	n-Heptane	2.3	2.4	4.2 %
	n-Hexane	0.54	0.54	AC

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
IA-8_050511/DUP 050511	o-Xylene	0.53	0.45	AC
	Toluene	14 D	15	12.5 %
	Trichlorofluoromethane	3.3	3.5	5.8 %
	Xylenes, Total	2.1	1.8	15.3 %

U = Not detected
AC = Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

9. Compound Identification

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
IA-7_050511	Methylene Chloride	30 E	30 D	30 D
IA-8_050511	Toluene	17 E	14 D	14 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: TO-15	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Canister return pressure/vacuum (>1"Hg)		X		X	
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
C. Trip blanks					X
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate (LCSD)					X
LCS/LCSD Precision (RPD)					X
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries					X
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X			
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Relative standard deviation
%R Percent recovery
RPD Relative percent difference
%D Percent difference

SAMPLE COMPLIANCE REPORT

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliancy[1]					Noncompliance
					VOC	SVOC	PCB/PEST /HERB	MET	MISC	
200-5075	5/5/2011	TO-15	IA-7_050511	Air	Yes	--	--	--	--	
200-5075	5/5/2011	TO-15	AMB_050511	Air	Yes	--	--	--	--	
200-5075	5/5/2011	TO-15	IA-8_050511	Air	Yes	--	--	--	--	
200-5075	5/5/2011	TO-15	DUP 050511	Air	Yes	--	--	--	--	

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Amy Coats

SIGNATURE: 

DATE: May 27, 2011

PEER REVIEW BY: Joseph C. Houser

DATE: May 31, 2011

CHAIN OF CUSTODY/
CORRECTED SAMPLE ANALYSIS DATA SHEETS

Client: ARCADIS U.S. Inc

Job Number: 200-5075-1
Sdg Number: 200-5075

Client Sample ID: **IA-7[050511]**

Lab Sample ID: 200-5075-1
Client Matrix: Air

Date Sampled: 05/05/2011 1553
Date Received: 05/06/2011 1000

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17921	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejx020.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/12/2011 0323			Final Weight/Volume:	500 mL
Prep Date:	05/12/2011 0323			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.46		0.040
1,2-Dichlorotetrafluoroethane	0.040	U	0.040
Vinyl chloride	0.080	U	0.080
1,3-Butadiene	0.080	U	0.080
Bromomethane	0.080	U	0.080
Chloroethane	0.080	U	0.080
Bromoethene(Vinyl Bromide)	0.080	U	0.080
Trichlorofluoromethane	1.1		0.040
1,1-Dichloroethene	0.040	U	0.040
3-Chloropropene	0.080	U	0.080
Methylene Chloride	~~8.6~~ 8.7	~~EJ~~	0.80
Methyl tert-butyl ether	0.040	U	0.040
trans-1,2-Dichloroethene	0.040	U	0.040
n-Hexane	0.080	U	0.080
1,1-Dichloroethane	0.040	U	0.040
cis-1,2-Dichloroethene	0.040	U	0.040
Chloroform	0.040	U	0.040
1,1,1-Trichloroethane	0.040	U	0.040
Cyclohexane	0.13		0.040
Carbon tetrachloride	0.064		0.040
2,2,4-Trimethylpentane	0.040	U	0.040
Benzene	0.11		0.040
1,2-Dichloroethane	0.080	U	0.080
n-Heptane	0.11		0.040
Trichloroethene	0.040	U	0.040
1,2-Dichloropropane	0.080	U	0.080
Bromodichloromethane	0.040	U	0.040
cis-1,3-Dichloropropene	0.040	U	0.040
Toluene	1.0		0.040
trans-1,3-Dichloropropene	0.040	U	0.040
1,1,2-Trichloroethane	0.040	U	0.040
Tetrachloroethene	0.086		0.040
Dibromochloromethane	0.040	U	0.040
1,2-Dibromoethane	0.040	U	0.040
Ethylbenzene	0.15		0.040
o-Xylene	0.16		0.040
Bromoform	0.040	U	0.040
1,1,2,2-Tetrachloroethane	0.040	U	0.040
4-Ethyltoluene	0.040	U	0.040
1,3,5-Trimethylbenzene	0.080	U	0.080
1,2-Dichloroethene, Total	0.040	U	0.040
m-Xylene & p-Xylene	0.50		0.080
Xylenes, Total	0.66		0.040

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.3		0.20

Client: ARCADIS U.S. Inc

Job Number: 200-5075-1
Sdg Number: 200-5075

Client Sample ID: **IA-7[050511]**

Lab Sample ID: 200-5075-1
Client Matrix: Air

Date Sampled: 05/05/2011 1553
Date Received: 05/06/2011 1000

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17921	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejx020.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/12/2011 0323			Final Weight/Volume:	500 mL
Prep Date:	05/12/2011 0323			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	0.28	U	0.28
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.18	U	0.18
Bromomethane	0.31	U	0.31
Chloroethane	0.21	U	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35
Trichlorofluoromethane	6.2		0.22
1,1-Dichloroethene	0.16	U	0.16
3-Chloropropene	0.25	U	0.25
Methylene Chloride	30	~~E~~ D	2.8
Methyl tert-butyl ether	0.14	U	0.14
trans-1,2-Dichloroethene	0.16	U	0.16
n-Hexane	0.28	U	0.28
1,1-Dichloroethane	0.16	U	0.16
cis-1,2-Dichloroethene	0.16	U	0.16
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.22	U	0.22
Cyclohexane	0.44		0.14
Carbon tetrachloride	0.40		0.25
2,2,4-Trimethylpentane	0.19	U	0.19
Benzene	0.34		0.13
1,2-Dichloroethane	0.32	U	0.32
n-Heptane	0.44		0.16
Trichloroethene	0.21	U	0.21
1,2-Dichloropropane	0.37	U	0.37
Bromodichloromethane	0.27	U	0.27
cis-1,3-Dichloropropene	0.18	U	0.18
Toluene	3.8		0.15
trans-1,3-Dichloropropene	0.18	U	0.18
1,1,2-Trichloroethane	0.22	U	0.22
Tetrachloroethene	0.59		0.27
Dibromochloromethane	0.34	U	0.34
1,2-Dibromoethane	0.31	U	0.31
Ethylbenzene	0.66		0.17
o-Xylene	0.69		0.17
Bromoform	0.41	U	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.39	U	0.39
1,2-Dichloroethene, Total	0.16	U	0.16
m-Xylene & p-Xylene	2.2		0.35
Xylenes, Total	2.9		0.17

Client: ARCADIS U.S. Inc

Job Number: 200-5075-1
Sdg Number: 200-5075

Client Sample ID: **IA-7[050511]**

Lab Sample ID: 200-5075-1
Client Matrix: Air

Date Sampled: 05/05/2011 1553
Date Received: 05/06/2011 1000

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17921	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejx024.d
Dilution:	6.25			Initial Weight/Volume:	80 mL
Analysis Date:	05/12/2011 0825	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	05/12/2011 0825			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.47	D	0.062
1,2-Dichlorotetrafluoroethane	0.062	U	0.062
Vinyl chloride	0.12	U	0.12
1,3-Butadiene	0.12	U	0.12
Bromomethane	0.12	U	0.12
Chloroethane	0.12	U	0.12
Bromoethene(Vinyl Bromide)	0.12	U	0.12
Trichlorofluoromethane	1.2	D	0.062
1,1-Dichloroethene	0.062	U	0.062
3-Chloropropene	0.12	U	0.12
Methylene Chloride	8.7	D	1.2
Methyl tert-butyl ether	0.062	U	0.062
trans-1,2-Dichloroethene	0.062	U	0.062
n-Hexane	0.12	U	0.12
1,1-Dichloroethane	0.062	U	0.062
cis-1,2-Dichloroethene	0.062	U	0.062
Chloroform	0.062	U	0.062
1,1,1-Trichloroethane	0.062	U	0.062
Cyclohexane	0.13	D	0.062
Carbon tetrachloride	0.068	D	0.062
2,2,4-Trimethylpentane	0.062	U	0.062
Benzene	0.15	D	0.062
1,2-Dichloroethane	0.12	U	0.12
n-Heptane	0.14	D	0.062
Trichloroethene	0.062	U	0.062
1,2-Dichloropropane	0.12	U	0.12
Bromodichloromethane	0.062	U	0.062
cis-1,3-Dichloropropene	0.062	U	0.062
Toluene	1.0	D	0.062
trans-1,3-Dichloropropene	0.062	U	0.062
1,1,2-Trichloroethane	0.062	U	0.062
Tetrachloroethene	0.095	D	0.062
Dibromochloromethane	0.062	U	0.062
1,2-Dibromoethane	0.062	U	0.062
Ethylbenzene	0.16	D	0.062
o-Xylene	0.15	D	0.062
Bromoform	0.062	U	0.062
1,1,2,2-Tetrachloroethane	0.062	U	0.062
4-Ethyltoluene	0.062	U	0.062
1,3,5-Trimethylbenzene	0.12	U	0.12
1,2-Dichloroethene, Total	0.062	U	0.062
m-Xylene & p-Xylene	0.48	D	0.12
Xylenes, Total	0.63	D	0.062

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.3	D	0.31

Client: ARCADIS U.S. Inc

Job Number: 200-5075-1
Sdg Number: 200-5075

Client Sample ID: **IA-7[050511]**

Lab Sample ID: 200-5075-1
Client Matrix: Air

Date Sampled: 05/05/2011 1553
Date Received: 05/06/2011 1000

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17921	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejx024.d
Dilution:	6.25			Initial Weight/Volume:	80 mL
Analysis Date:	05/12/2011 0825	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	05/12/2011 0825			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	0.44	U	0.44
Vinyl chloride	0.32	U	0.32
1,3-Butadiene	0.28	U	0.28
Bromomethane	0.49	U	0.49
Chloroethane	0.33	U	0.33
Bromoethene(Vinyl Bromide)	0.55	U	0.55
Trichlorofluoromethane	6.7	D	0.35
1,1-Dichloroethene	0.25	U	0.25
3-Chloropropene	0.39	U	0.39
Methylene Chloride	30	D	4.3
Methyl tert-butyl ether	0.23	U	0.23
trans-1,2-Dichloroethene	0.25	U	0.25
n-Hexane	0.44	U	0.44
1,1-Dichloroethane	0.25	U	0.25
cis-1,2-Dichloroethene	0.25	U	0.25
Chloroform	0.31	U	0.31
1,1,1-Trichloroethane	0.34	U	0.34
Cyclohexane	0.46	D	0.22
Carbon tetrachloride	0.43	D	0.39
2,2,4-Trimethylpentane	0.29	U	0.29
Benzene	0.48	D	0.20
1,2-Dichloroethane	0.51	U	0.51
n-Heptane	0.57	D	0.26
Trichloroethene	0.34	U	0.34
1,2-Dichloropropane	0.58	U	0.58
Bromodichloromethane	0.42	U	0.42
cis-1,3-Dichloropropene	0.28	U	0.28
Toluene	4.0	D	0.24
trans-1,3-Dichloropropene	0.28	U	0.28
1,1,2-Trichloroethane	0.34	U	0.34
Tetrachloroethene	0.65	D	0.42
Dibromochloromethane	0.53	U	0.53
1,2-Dibromoethane	0.48	U	0.48
Ethylbenzene	0.70	D	0.27
o-Xylene	0.66	D	0.27
Bromoform	0.65	U	0.65
1,1,2,2-Tetrachloroethane	0.43	U	0.43
4-Ethyltoluene	0.31	U	0.31
1,3,5-Trimethylbenzene	0.61	U	0.61
1,2-Dichloroethene, Total	0.25	U	0.25
m-Xylene & p-Xylene	2.1	D	0.54
Xylenes, Total	2.7	D	0.27

Client: ARCADIS U.S. Inc

Job Number: 200-5075-1
Sdg Number: 200-5075

Client Sample ID: **AMB[050511]**

Lab Sample ID: 200-5075-2
Client Matrix: Air

Date Sampled: 05/05/2011 1755
Date Received: 05/06/2011 1000

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17921	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejx021.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/12/2011 0418			Final Weight/Volume:	500 mL
Prep Date:	05/12/2011 0418			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.44		0.040
1,2-Dichlorotetrafluoroethane	0.040	U	0.040
Vinyl chloride	0.080	U	0.080
1,3-Butadiene	0.080	U	0.080
Bromomethane	0.080	U	0.080
Chloroethane	0.080	U	0.080
Bromoethene(Vinyl Bromide)	0.080	U	0.080
Trichlorofluoromethane	0.20		0.040
1,1-Dichloroethene	0.040	U	0.040
3-Chloropropene	0.080	U	0.080
Methylene Chloride	0.80	U	0.80
Methyl tert-butyl ether	0.040	U	0.040
trans-1,2-Dichloroethene	0.040	U	0.040
n-Hexane	0.080	U	0.080
1,1-Dichloroethane	0.040	U	0.040
cis-1,2-Dichloroethene	0.040	U	0.040
Chloroform	0.040	U	0.040
1,1,1-Trichloroethane	0.040	U	0.040
Cyclohexane	0.040	U	0.040
Carbon tetrachloride	0.070		0.040
2,2,4-Trimethylpentane	0.040	U	0.040
Benzene	0.072		0.040
1,2-Dichloroethane	0.080	U	0.080
n-Heptane	0.040	U	0.040
Trichloroethene	0.040	U	0.040
1,2-Dichloropropane	0.080	U	0.080
Bromodichloromethane	0.040	U	0.040
cis-1,3-Dichloropropene	0.040	U	0.040
Toluene	0.22		0.040
trans-1,3-Dichloropropene	0.040	U	0.040
1,1,2-Trichloroethane	0.040	U	0.040
Tetrachloroethene	0.040	U	0.040
Dibromochloromethane	0.040	U	0.040
1,2-Dibromoethane	0.040	U	0.040
Ethylbenzene	0.040	U	0.040
o-Xylene	0.044		0.040
Bromoform	0.040	U	0.040
1,1,2,2-Tetrachloroethane	0.040	U	0.040
4-Ethyltoluene	0.040	U	0.040
1,3,5-Trimethylbenzene	0.080	U	0.080
1,2-Dichloroethene, Total	0.040	U	0.040
m-Xylene & p-Xylene	0.11		0.080
Xylenes, Total	0.15		0.040

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.2		0.20

Client: ARCADIS U.S. Inc

Job Number: 200-5075-1
Sdg Number: 200-5075

Client Sample ID: **AMB[050511]**

Lab Sample ID: 200-5075-2
Client Matrix: Air

Date Sampled: 05/05/2011 1755
Date Received: 05/06/2011 1000

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17921	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejx021.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/12/2011 0418			Final Weight/Volume:	500 mL
Prep Date:	05/12/2011 0418			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	0.28	U	0.28
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.18	U	0.18
Bromomethane	0.31	U	0.31
Chloroethane	0.21	U	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35
Trichlorofluoromethane	1.1		0.22
1,1-Dichloroethene	0.16	U	0.16
3-Chloropropene	0.25	U	0.25
Methylene Chloride	2.8	U	2.8
Methyl tert-butyl ether	0.14	U	0.14
trans-1,2-Dichloroethene	0.16	U	0.16
n-Hexane	0.28	U	0.28
1,1-Dichloroethane	0.16	U	0.16
cis-1,2-Dichloroethene	0.16	U	0.16
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.22	U	0.22
Cyclohexane	0.14	U	0.14
Carbon tetrachloride	0.44		0.25
2,2,4-Trimethylpentane	0.19	U	0.19
Benzene	0.23		0.13
1,2-Dichloroethane	0.32	U	0.32
n-Heptane	0.16	U	0.16
Trichloroethene	0.21	U	0.21
1,2-Dichloropropane	0.37	U	0.37
Bromodichloromethane	0.27	U	0.27
cis-1,3-Dichloropropene	0.18	U	0.18
Toluene	0.82		0.15
trans-1,3-Dichloropropene	0.18	U	0.18
1,1,2-Trichloroethane	0.22	U	0.22
Tetrachloroethene	0.27	U	0.27
Dibromochloromethane	0.34	U	0.34
1,2-Dibromoethane	0.31	U	0.31
Ethylbenzene	0.17	U	0.17
o-Xylene	0.19		0.17
Bromoform	0.41	U	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.39	U	0.39
1,2-Dichloroethene, Total	0.16	U	0.16
m-Xylene & p-Xylene	0.46		0.35
Xylenes, Total	0.65		0.17

Client: ARCADIS U.S. Inc

Job Number: 200-5075-1
Sdg Number: 200-5075

Client Sample ID: **IA-8[050511]**

Lab Sample ID: 200-5075-3
Client Matrix: Air

Date Sampled: 05/05/2011 1620
Date Received: 05/06/2011 1000

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17921	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejx022.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/12/2011 0514			Final Weight/Volume:	500 mL
Prep Date:	05/12/2011 0514			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.43		0.040
1,2-Dichlorotetrafluoroethane	0.040	U	0.040
Vinyl chloride	0.080	U	0.080
1,3-Butadiene	0.080	U	0.080
Bromomethane	0.080	U	0.080
Chloroethane	0.080	U	0.080
Bromoethene(Vinyl Bromide)	0.080	U	0.080
Trichlorofluoromethane	0.59		0.040
1,1-Dichloroethene	0.040	U	0.040
3-Chloropropene	0.080	U	0.080
Methylene Chloride	6.3		0.80
Methyl tert-butyl ether	0.040	U	0.040
trans-1,2-Dichloroethene	0.040	U	0.040
n-Hexane	0.15		0.080
1,1-Dichloroethane	0.040	U	0.040
cis-1,2-Dichloroethene	0.040	U	0.040
Chloroform	0.040	U	0.040
1,1,1-Trichloroethane	0.040	U	0.040
Cyclohexane	0.81		0.040
Carbon tetrachloride	0.071		0.040
2,2,4-Trimethylpentane	0.040	U	0.040
Benzene	0.086		0.040
1,2-Dichloroethane	0.080	U	0.080
n-Heptane	0.57		0.040
Trichloroethene	0.040	U	0.040
1,2-Dichloropropane	0.080	U	0.080
Bromodichloromethane	0.040	U	0.040
cis-1,3-Dichloropropene	0.040	U	0.040
Toluene	~~4.6~~ 3.7	~~E~~ J + D	0.040
trans-1,3-Dichloropropene	0.040	U	0.040
1,1,2-Trichloroethane	0.040	U	0.040
Tetrachloroethene	0.040	U	0.040
Dibromochloromethane	0.040	U	0.040
1,2-Dibromoethane	0.040	U	0.040
Ethylbenzene	0.12		0.040
o-Xylene	0.12		0.040
Bromoform	0.040	U	0.040
1,1,2,2-Tetrachloroethane	0.040	U	0.040
4-Ethyltoluene	0.097		0.040
1,3,5-Trimethylbenzene	0.16		0.080
1,2-Dichloroethene, Total	0.040	U	0.040
m-Xylene & p-Xylene	0.36		0.080
Xylenes, Total	0.48		0.040

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.1		0.20

Client: ARCADIS U.S. Inc

Job Number: 200-5075-1
Sdg Number: 200-5075

Client Sample ID: **IA-8[050511]**

Lab Sample ID: 200-5075-3
Client Matrix: Air

Date Sampled: 05/05/2011 1620
Date Received: 05/06/2011 1000

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17921	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejx022.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/12/2011 0514			Final Weight/Volume:	500 mL
Prep Date:	05/12/2011 0514			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	0.28	U	0.28
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.18	U	0.18
Bromomethane	0.31	U	0.31
Chloroethane	0.21	U	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35
Trichlorofluoromethane	3.3		0.22
1,1-Dichloroethene	0.16	U	0.16
3-Chloropropene	0.25	U	0.25
Methylene Chloride	22		2.8
Methyl tert-butyl ether	0.14	U	0.14
trans-1,2-Dichloroethene	0.16	U	0.16
n-Hexane	0.54		0.28
1,1-Dichloroethane	0.16	U	0.16
cis-1,2-Dichloroethene	0.16	U	0.16
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.22	U	0.22
Cyclohexane	2.8		0.14
Carbon tetrachloride	0.45		0.25
2,2,4-Trimethylpentane	0.19	U	0.19
Benzene	0.27		0.13
1,2-Dichloroethane	0.32	U	0.32
n-Heptane	2.3		0.16
Trichloroethene	0.21	U	0.21
1,2-Dichloropropane	0.37	U	0.37
Bromodichloromethane	0.27	U	0.27
cis-1,3-Dichloropropene	0.18	U	0.18
Toluene	~~17~~ 14	~~EJ~~ D	0.15
trans-1,3-Dichloropropene	0.18	U	0.18
1,1,2-Trichloroethane	0.22	U	0.22
Tetrachloroethene	0.27	U	0.27
Dibromochloromethane	0.34	U	0.34
1,2-Dibromoethane	0.31	U	0.31
Ethylbenzene	0.51		0.17
o-Xylene	0.53		0.17
Bromoform	0.41	U	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27
4-Ethyltoluene	0.48		0.20
1,3,5-Trimethylbenzene	0.79		0.39
1,2-Dichloroethene, Total	0.16	U	0.16
m-Xylene & p-Xylene	1.6		0.35
Xylenes, Total	2.1		0.17

Client: ARCADIS U.S. Inc

Job Number: 200-5075-1
Sdg Number: 200-5075

Client Sample ID: **IA-8[050511]**

Lab Sample ID: 200-5075-3
Client Matrix: Air

Date Sampled: 05/05/2011 1620
Date Received: 05/06/2011 1000

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17921	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejx025.d
Dilution:	6.25			Initial Weight/Volume:	80 mL
Analysis Date:	05/12/2011 0920	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	05/12/2011 0920			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.48	D	0.062
1,2-Dichlorotetrafluoroethane	0.062	U	0.062
Vinyl chloride	0.12	U	0.12
1,3-Butadiene	0.12	U	0.12
Bromomethane	0.12	U	0.12
Chloroethane	0.12	U	0.12
Bromoethene(Vinyl Bromide)	0.12	U	0.12
Trichlorofluoromethane	0.64	D	0.062
1,1-Dichloroethene	0.062	U	0.062
3-Chloropropene	0.12	U	0.12
Methylene Chloride	6.1	D	1.2
Methyl tert-butyl ether	0.062	U	0.062
trans-1,2-Dichloroethene	0.062	U	0.062
n-Hexane	0.15	D	0.12
1,1-Dichloroethane	0.062	U	0.062
cis-1,2-Dichloroethene	0.062	U	0.062
Chloroform	0.062	U	0.062
1,1,1-Trichloroethane	0.062	U	0.062
Cyclohexane	0.82	D	0.062
Carbon tetrachloride	0.068	D	0.062
2,2,4-Trimethylpentane	0.062	U	0.062
Benzene	0.085	D	0.062
1,2-Dichloroethane	0.12	U	0.12
n-Heptane	0.49	D	0.062
Trichloroethene	0.062	U	0.062
1,2-Dichloropropane	0.12	U	0.12
Bromodichloromethane	0.062	U	0.062
cis-1,3-Dichloropropene	0.062	U	0.062
Toluene	3.7	D	0.062
trans-1,3-Dichloropropene	0.062	U	0.062
1,1,2-Trichloroethane	0.062	U	0.062
Tetrachloroethene	0.062	U	0.062
Dibromochloromethane	0.062	U	0.062
1,2-Dibromoethane	0.062	U	0.062
Ethylbenzene	0.085	D	0.062
o-Xylene	0.095	D	0.062
Bromoform	0.062	U	0.062
1,1,2,2-Tetrachloroethane	0.062	U	0.062
4-Ethyltoluene	0.090	D	0.062
1,3,5-Trimethylbenzene	0.14	D	0.12
1,2-Dichloroethene, Total	0.062	U	0.062
m-Xylene & p-Xylene	0.29	D	0.12
Xylenes, Total	0.38	D	0.062

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.4	D	0.31

Client: ARCADIS U.S. Inc

Job Number: 200-5075-1
Sdg Number: 200-5075

Client Sample ID: **IA-8[050511]**

Lab Sample ID: 200-5075-3
Client Matrix: Air

Date Sampled: 05/05/2011 1620
Date Received: 05/06/2011 1000

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17921	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejx025.d
Dilution:	6.25			Initial Weight/Volume:	80 mL
Analysis Date:	05/12/2011 0920	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	05/12/2011 0920			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	0.44	U	0.44
Vinyl chloride	0.32	U	0.32
1,3-Butadiene	0.28	U	0.28
Bromomethane	0.49	U	0.49
Chloroethane	0.33	U	0.33
Bromoethene(Vinyl Bromide)	0.55	U	0.55
Trichlorofluoromethane	3.6	D	0.35
1,1-Dichloroethene	0.25	U	0.25
3-Chloropropene	0.39	U	0.39
Methylene Chloride	21	D	4.3
Methyl tert-butyl ether	0.23	U	0.23
trans-1,2-Dichloroethene	0.25	U	0.25
n-Hexane	0.52	D	0.44
1,1-Dichloroethane	0.25	U	0.25
cis-1,2-Dichloroethene	0.25	U	0.25
Chloroform	0.31	U	0.31
1,1,1-Trichloroethane	0.34	U	0.34
Cyclohexane	2.8	D	0.22
Carbon tetrachloride	0.43	D	0.39
2,2,4-Trimethylpentane	0.29	U	0.29
Benzene	0.27	D	0.20
1,2-Dichloroethane	0.51	U	0.51
n-Heptane	2.0	D	0.26
Trichloroethene	0.34	U	0.34
1,2-Dichloropropane	0.58	U	0.58
Bromodichloromethane	0.42	U	0.42
cis-1,3-Dichloropropene	0.28	U	0.28
Toluene	14	D	0.24
trans-1,3-Dichloropropene	0.28	U	0.28
1,1,2-Trichloroethane	0.34	U	0.34
Tetrachloroethene	0.42	U	0.42
Dibromochloromethane	0.53	U	0.53
1,2-Dibromoethane	0.48	U	0.48
Ethylbenzene	0.37	D	0.27
o-Xylene	0.41	D	0.27
Bromoform	0.65	U	0.65
1,1,2,2-Tetrachloroethane	0.43	U	0.43
4-Ethyltoluene	0.44	D	0.31
1,3,5-Trimethylbenzene	0.67	D	0.61
1,2-Dichloroethene, Total	0.25	U	0.25
m-Xylene & p-Xylene	1.2	D	0.54
Xylenes, Total	1.6	D	0.27

Client: ARCADIS U.S. Inc

Job Number: 200-5075-1
Sdg Number: 200-5075

Client Sample ID: **DUP 050511**

Lab Sample ID: 200-5075-4
Client Matrix: Air

Date Sampled: 05/05/2011 0000
Date Received: 05/06/2011 1000

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17921	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejx023.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/12/2011 0608			Final Weight/Volume:	500 mL
Prep Date:	05/12/2011 0608			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.43		0.040
1,2-Dichlorotetrafluoroethane	0.040	U	0.040
Vinyl chloride	0.080	U	0.080
1,3-Butadiene	0.080	U	0.080
Bromomethane	0.080	U	0.080
Chloroethane	0.080	U	0.080
Bromoethene(Vinyl Bromide)	0.080	U	0.080
Trichlorofluoromethane	0.63		0.040
1,1-Dichloroethene	0.040	U	0.040
3-Chloropropene	0.080	U	0.080
Methylene Chloride	6.2		0.80
Methyl tert-butyl ether	0.040	U	0.040
trans-1,2-Dichloroethene	0.040	U	0.040
n-Hexane	0.15		0.080
1,1-Dichloroethane	0.040	U	0.040
cis-1,2-Dichloroethene	0.040	U	0.040
Chloroform	0.040	U	0.040
1,1,1-Trichloroethane	0.040	U	0.040
Cyclohexane	0.98		0.040
Carbon tetrachloride	0.064		0.040
2,2,4-Trimethylpentane	0.040	U	0.040
Benzene	0.083		0.040
1,2-Dichloroethane	0.080	U	0.080
n-Heptane	0.58		0.040
Trichloroethene	0.040	U	0.040
1,2-Dichloropropane	0.080	U	0.080
Bromodichloromethane	0.040	U	0.040
cis-1,3-Dichloropropene	0.040	U	0.040
Toluene	3.9		0.040
trans-1,3-Dichloropropene	0.040	U	0.040
1,1,2-Trichloroethane	0.040	U	0.040
Tetrachloroethene	0.040	U	0.040
Dibromochloromethane	0.040	U	0.040
1,2-Dibromoethane	0.040	U	0.040
Ethylbenzene	0.10		0.040
o-Xylene	0.10		0.040
Bromoform	0.040	U	0.040
1,1,2,2-Tetrachloroethane	0.040	U	0.040
4-Ethyltoluene	0.067		0.040
1,3,5-Trimethylbenzene	0.16		0.080
1,2-Dichloroethene, Total	0.040	U	0.040
m-Xylene & p-Xylene	0.31		0.080
Xylenes, Total	0.42		0.040

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.1		0.20

Client: ARCADIS U.S. Inc

Job Number: 200-5075-1
Sdg Number: 200-5075

Client Sample ID: **DUP 050511**

Lab Sample ID: 200-5075-4
Client Matrix: Air

Date Sampled: 05/05/2011 0000
Date Received: 05/06/2011 1000

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-17921	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejx023.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	05/12/2011 0608			Final Weight/Volume:	500 mL
Prep Date:	05/12/2011 0608			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
1,2-Dichlorotetrafluoroethane	0.28	U	0.28
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.18	U	0.18
Bromomethane	0.31	U	0.31
Chloroethane	0.21	U	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35
Trichlorofluoromethane	3.5		0.22
1,1-Dichloroethene	0.16	U	0.16
3-Chloropropene	0.25	U	0.25
Methylene Chloride	22		2.8
Methyl tert-butyl ether	0.14	U	0.14
trans-1,2-Dichloroethene	0.16	U	0.16
n-Hexane	0.54		0.28
1,1-Dichloroethane	0.16	U	0.16
cis-1,2-Dichloroethene	0.16	U	0.16
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.22	U	0.22
Cyclohexane	3.4		0.14
Carbon tetrachloride	0.40		0.25
2,2,4-Trimethylpentane	0.19	U	0.19
Benzene	0.26		0.13
1,2-Dichloroethane	0.32	U	0.32
n-Heptane	2.4		0.16
Trichloroethene	0.21	U	0.21
1,2-Dichloropropane	0.37	U	0.37
Bromodichloromethane	0.27	U	0.27
cis-1,3-Dichloropropene	0.18	U	0.18
Toluene	15		0.15
trans-1,3-Dichloropropene	0.18	U	0.18
1,1,2-Trichloroethane	0.22	U	0.22
Tetrachloroethene	0.27	U	0.27
Dibromochloromethane	0.34	U	0.34
1,2-Dibromoethane	0.31	U	0.31
Ethylbenzene	0.45		0.17
o-Xylene	0.45		0.17
Bromoform	0.41	U	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27
4-Ethyltoluene	0.33		0.20
1,3,5-Trimethylbenzene	0.80		0.39
1,2-Dichloroethene, Total	0.16	U	0.16
m-Xylene & p-Xylene	1.4		0.35
Xylenes, Total	1.8		0.17

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: Andrew Enisk	Samples Collected By: Pat Prezorski	1 of 1 COCs
Company: Arcadis	Phone: 315-671-9548		
Address: 6723 Tolpath Road	Email: andrew.enisk@arcadis-us.com		
City/State/Zip: Syracuse, NY 13057			
Phone: 315-671-9548	Site Contact: Dan Zuck		
FAX: 315-449-4111	TA Contact: Don Dawicki		
Project Name: Bayer-Hicksville	Analysis Turnaround Time -contact		
Site: Hicksville, NY	Standard (Specify) PM		
PO # B0032305.0004.00003	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 LL-Low/med+Med2	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
IA-7 [050511]	5/5/11	8:57 AM	1553	-29.5	-7	4766	3381	✓											
AMB [050511]	5/5/11	9:18 AM	1755	-30	-7	2993	4546	✓											
IA-8 [050511]	5/5/11	8:46 AM	1620	-30	-6	2811	5122	✓											
DUP 050511	5/5/11	—	—	-27	-7	2616	2985	✓											

Temperature (Fahrenheit)		
	Interior	Ambient
Start		
Stop		

Pressure (Inches of Hg)		
	Interior	Ambient
Start		
Stop		

Special Instructions/QC Requirements & Comments:

Samples Shipped by: Pat Prezorski	Date/Time: 5/5/11 1930	Samples Received by: [signature] 5/6/11 1000
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

Lab Use Only Shipper Name: Opened by: Condition:

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: Andrew Enick	Samples Collected By: Pat Prezorski	1 of 1 COCs
Company: Arcadis	Phone: 315-671-9548		
Address: 6723 Tolpath Road	Email: andrew.enick@arcadis-us.com		
City/State/Zip: Syracuse, NY 13057			
Phone: 315-671-9548	Site Contact: Dan Zuck		
FAX: 315-449-4111	TA Contact: Don Dawicki		
Project Name: Bayer-Hicksville	Analysis Turnaround Time -contact		
Site: Hicksville, NY	Standard (Specify) 9M		
PO # B0032305.0004.00003	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, 'Hg (Stop)	Flow Controller ID	Canister ID	TO-15 LL-Lowlevel+Mecl2	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
IA-7 [050511]	5/5/11	8:57 AM	1553	-29.5	-7	4766	3381	✓											
AMB [050511]	5/5/11	9:18 AM	1755	-30	-7	2993	4546	✓											
IA-8 [050511]	5/5/11	8:16 AM	1620	-30	-6	2811	5122	✓											
DUP 050511	5/5/11	—	—	-27	-7	2616	2985	✓											

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by: Pat Prezorski	Date/Time: 5/5/11 1930	Samples Received by: [signature] 5/6/11 1000
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

Lab Use Only Shipper Name: Opened by: Condition: