Hull & associates, inc.

October 12, 2011

Ms. Ann Kolata
Senior Redevelopment Specialist
City of South Bend Department of Community & Economic Development
227 West Jefferson Blvd, 12th Floor
South Bend, Indiana 46601

RE: Report Documenting Soil Gas Sampling and Analysis at the Proposed Lot 4 Site located at Ignition Park, South Bend, Indiana (Site); SBI065.400.0002.DOC

Dear Ms. Kolata:

Pursuant to Hull & Associates, Inc.'s (Hull's) proposal to the City of South Bend Department of Community & Economic Development (the City) dated August 8, 2011, this letter report documents the installation of soil gas probes; the collection and analysis of samples from those soil gas probes; a discussion of the laboratory results; and, based on those results, a discussion of potential remedial options and/or recommendations for additional evaluation at the referenced Site.

Project Background

The parcel of land generally located in the southern portion of Ignition Park is located in an area of South Bend with a significant industrial history. Lot 4 is comprised of portions of the former Studebaker automotive manufacturing facility (Studebaker) and portions of a former Norflok Southern Railroad (NSRR) yard (the Site) and is approximately 5 acres in size. Hull understands that the City may transfer ownership of Lot 4 for redevelopment as a data center. Numerous phases of Environmental Site Assessments (ESAs) and one voluntary soil remediation project have been conducted at the Site.

Due to the detection of chlorinated volatile organic compounds (VOCs) in groundwater at concentrations exceeding the Indiana Department of Environmental Management's (IDEM) Draft Vapor Intrusion Pilot Program Guidance Commercial Ground Water Screening Levels within the proposed Lot 4 boundaries, Hull recommended the collection and analysis of soil gas samples to evaluate the potential for VOCs in groundwater at the Site to migrate to indoor air. The work was performed in general accordance with IDEM's Draft Vapor Intrusion Pilot Program Guidance dated April 2006.

Collection of Soil Gas Samples

Two nested samples from four locations (for a total of 8 samples) were collected from points located near the proposed Lot 4 boundaries, where concentrations of VOCs in groundwater are relatively more elevated. Sampling locations are indicated on Figure 1. The samples were collected from each location at depths of approximately six feet below ground surface (bgs) and 14 feet bgs, which is approximately four to five feet above the uppermost saturated unit at the Site.

The soil gas sampling point installation was performed using a direct push drilling unit (i.e.,

Geoprobe™ unit). Soil borings were logged continuously to a depth of approximately 14 feet at each location and screened with a photoionization detector (PID) during installation.

After logging, a small diameter stainless steel screen of approximately 12 inches in length, connected to a piece of flexible tubing of sufficient length to extend above the ground surface and allow for sample collection, was emplaced in the borehole. The borehole surrounding the screen was filled with an appropriately-sized sand pack to a depth of six to 12 inches above the top of the screen. A hydrated bentonite seal was placed above the sand pack. A second shallow sampling point was similarly installed to a depth of approximately six feet at each sampling location.

Approximately 96 hours following installation, each sampling port was purged in accordance with IDEM's Draft Vapor Intrusion Pilot Program Guidance, and a sample was collected via vacuum into a 6-L stainless steel *Summa* canister attached to a gas flow regulator to allow the sample to slowly fill the *Summa* canister. Each container was monitored for approximately 30 minutes until the regulator registered approximately 1-3" (water) of remaining vacuum, thus ensuring sufficient sample volume for laboratory analysis. One duplicate was also collected (FD-1) and associated with soil gas sample SGP-1S. The sealed soil gas samples were shipped to Pace Analytical Services, Inc. (Pace) in Minneapolis, Minnesota, and analyzed for VOCs in accordance with EPA Method TO-15.

Discussion of Results

Selection of Soil Gas Screening Levels

In 2006, the IDEM developed its Draft Guidance to recommend a protocol for the assessment of sites impacted by VOCs associated with petroleum components [benzene, toluene, ethylbenzene and xylene (BTEX)] or chlorinated compounds. As part of this guidance, IDEM developed screening levels for environmental media (i.e., groundwater, sub-slab vapor, crawl space vapor, and soil gas) for BTEX and selected chlorinated compounds including cis-1,2-dichloroethene (cis-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride (VC). For the purpose of this preliminary evaluation of soil gas, concentrations of VOCs reported from soil gas samples collected at the Site were compared to IDEM Soil Gas Screening Levels for commercial land use (assuming worker exposure for a period of 25 years), where available. For those constituents without an IDEM screening level, a screening level was calculated on the basis of target indoor air level for future commercial land use. Consistent with IDEM guidance, the indoor air action level for commercial land use with a 25-year exposure duration for each constituent shown in Table 3 of Appendix VIII of IDEM's Draft Guidance was multiplied by 100 to determine a soil gas screening level. This procedure assumes that the detected soil gas concentrations would be 100 times less in indoor air than in the subsurface environment (i.e., the attenuation coefficient was assumed to be 0.01).

Evaluation of Soil Gas Sampling Results

Although there were several constituents detected in soil gas, there were two constituents that were detected at concentrations exceeding IDEM Soil Gas Screening Levels based on a 25-year Exposure Duration. PCE was the most frequently-detected VOC at concentrations above its

respective screening level; the highest concentrations were reported from samples collected in the northwest and southwest portions of the Site, with decreasing concentrations to the northeast and southeast. Carbon tetrachloride was also detected at concentrations above screening levels; however, the area where they were detected at concentrations above IDEM Soil Gas Screening Levels is currently limited to the northwest portion of the property. Figure 1 shows sampling locations and concentrations of cis-1,2-DCE, PCE, TCE, and VC detected from each of the two depths at each sampling location. Additionally, locations and concentrations of carbon tetrachloride exceeding the target indoor air levels for commercial land use with a 25-year exposure duration are shown on Figure 1. As Hull understands the proposed building layout, two of the locations (with detected concentrations of constituents in soil gas that exceed a screening level) are within approximately 100 feet of the proposed building location. The PCE concentration detected at sampling locations SGP-1S (1,490 microgram per cubic meter (ug/m^3)), SGP-1D (1,280 ug/m^3), SGP-2S (2,920 ug/m^3), and SGP-2D (4,330 ug/m^3) each exceed the screening level of 680 ug/m^3. Field duplicate sample FD-1 which was associated with SGP-1S exhibited a PCE concentration of 2,300 ug/m^3. All sampling results are summarized in Table 1. A copy of the laboratory report is included as Attachment A.

Potential Options for the Vapor Intrusion Pathway

It is important to note that detections of VOCs at concentrations in excess of the soil gas screening levels point to the need for further investigation and do not necessarily indicate that there will be unacceptable human health hazard or risk associated with the vapor intrusion pathway for future structures. The IDEM screening levels are intended to be a conservative point of departure for determining if further investigation of the vapor intrusion pathway is required. In IDEM's recommended tiered approach to investigation, this generally involves the collection of indoor air samples in buildings where soil gas, sub-slab vapor or crawl space vapor indicates the potential for unacceptable human health hazard or risk. However, this "default" approach is not directly applicable to properties without existing buildings. Therefore, if the potential purchasers of the Site are to request a Comfort Letter or some similar instrument through the Indiana Brownfields Program (as is our current understanding), it is recommended that the Brownfields Program be consulted in order to determine an approach to further assessment and/or potential remediation that will be acceptable.

In lieu of consulting the Brownfields Program, one potential alternative is to look toward protocols established under other state or federal regulatory programs that may provide guidance. Unfortunately, there is not a single common approach to the evaluation of the vapor intrusion pathway under a regulatory program administered on a state or federal level. This presents unique challenges to the assessment of the pathway at sites that are not being investigated under specific regulatory requirements. It is Hull's experience that regular consultation and negotiation with the regulatory entity providing oversight to the cleanup is required for the evaluation of this pathway, even among those regulatory entities which have extensive guidance available, due to the rapidly evolving state of the science.

In light of the lack of specific IDEM guidance that is applicable to current conditions at the Site, there are three potential options that Hull presents for consideration, including the implementation

of a presumptive remedy, the identification of alternative screening levels or the collection of post-construction indoor air sampling. Each of the options is discussed below.

1) Implementation of a Presumptive Remedy: One option for the Site would be the implementation of a remedy (e.g, a vapor barrier, a sub-slab venting system, or a combination thereof) at future buildings constructed within approximately 100 feet of a location at which soil gas sampling resulted in a detected concentration of a constituent above a screening level. There are several advantages to this approach. This option would most likely not require additional investigation of the pathway and may obviate the need for on-going negotiations with IDEM and/or the Brownfields Program regarding an alternative approach to assessing the pathway. In addition, this approach would not require a source control/removal option to control potential exposure through vapor migration to indoor air at future structures.

2) Identification of Alternate Screening Levels: One common method for determining a site-specific estimate of potential hazard and risk involves the use of a spreadsheet soil gas-to-indoor air spreadsheet model developed by U.S. EPA (also known as the Johnson and Ettinger model). This model uses site-specific inputs for parameters that affect the potential for subsurface vapor migration to indoor air such as building footprint and air exchange characteristics, soil characteristics and regional climatic consideration to estimate a site-specific attenuation coefficient. Although widely used in many regulatory programs, each program tends to have specific requirements for use of the model. IDEM's guidance seems to suggest that alternative approaches to the evaluation of indoor air may be acceptable, in their discussion on attenuation factors in which they state: "alternatives to the use of the default attenuation factors may be proposed if it can be adequately demonstrated using site-specific conditions that the alternative screening levels are protective of human health, and will not allow vapor intrusion into nearby structures above health protective levels".

Although the use of the U.S. EPA method may provide an alternative to the use of a default attenuation factor, IDEM addresses the use of the model in an Addendum to its Draft Guidance, dated 10/19/2007. In this addendum, IDEM states that the use of modeling in the absence of confirmatory indoor air samples is an unacceptable method to demonstrate that the vapor intrusion pathway is incomplete. A discussion of post-construction indoor air sampling follows immediately below.

3) Post-Construction Indoor Air Sampling: A third possibility for the Site is the collection of post-construction indoor air samples either in support of the validation of the U.S. EPA spreadsheet model, or to directly measure whether constituents are present at unacceptable concentrations. Although this option is most consistent with the draft IDEM guidance, this approach is not preferred by Hull for the following reasons:

a. It is much more cost-effective to install engineering controls such as vapor barriers or a gas mitigation system when a building is being constructed, rather than to retrofit an existing building;

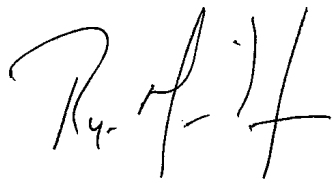
b. Indoor air sampling results can be confounding, particularly when the constituents of concern have indoor air action levels which may be exceeded by urban ambient air (i.e., non-point source concentrations); and

c. Off-gassing of construction materials such as adhesives, paints and carpeting in new buildings can represent a source of VOCs to indoor air unrelated to subsurface contamination.

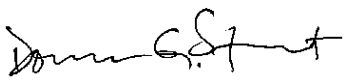
In closing, this investigation has identified a potentially complete pathway for the migration of chlorinated VOCs dissolved in groundwater underlying the Site, through the soil matrix, into a future building that may be constructed at the Site.

As you are likely aware, the changing nature of state regulatory programs with respect to vapor intrusion issues presents challenges to parties in determining a path to closure of the vapor intrusion pathway. Hull understands that the City may wish to discuss these issues, as well as the potential long-term liabilities of vapor intrusion issues, with legal counsel and/or the Indiana Brownfields Program. Please consider the information in this letter, with your legal counsel if you choose, and call us at (800) 241-7173 if you would like to discuss further.

Respectfully Submitted,



Ryan M. France
Project Scientist



Douglas G. Stuart
Sr. Project Manager

Cc: Lance Turley
File

Attachments

TABLE

SOIL GAS INVESTIGATION REPORT
PROPOSED LOT 4 SITE AT IGNITION PARK
SOUTH BEND, INDIANA

TABLE 1

Sample Location	IDEM Potential Commercial Screening Level for Chlorinated Compounds - 25 Year (ug/m^3)	IDEM Prompt Commercial Screening Level for Chlorinated Compounds - 25 Year (ug/m^3)	IDEM Chronic 25 year Indoor Air Action Levels - Commercial (ug/m^3)	Calculated Chronic Soil Gas Screening Level - 25 Year (ug/m^3)	SGP-1D	SGP-1S	FD1 (SGP-1S)	SGP-2D	SGP-2S	SGP-3D	SGP-3S	SGP-4D	SGP-4S
Sample ID					SGP-1D:A082911	SGP-1S:A082911	FD1-A082911	SGP-2D:A082911	SGP-2S:A082911	SGP-3D:A082911	SGP-3S:A082911	SGP-4D:A082911	SGP-4S:A082911
Sample Date					8/29/2011	8/29/2011	8/29/2011	8/29/2011	8/29/2011	8/29/2011	8/29/2011	8/29/2011	8/29/2011
VOCs by TO-15 (ug/m^3)													
1,1,1-Trichloroethane	--	--	3,200	320,000	4	6.1	19.5	<1.7	<16.3	<1.7	<16.3	<1.6	<1.6
1,1,2,2-Tetrachloroethane	--	--	0.72	72	<1	<1	<1	<1.1	<10.3	<1.1	<10.3	<1	<1
1,1,2-Trichlorethane	--	--	2.6	260	<0.79	<0.81	<0.79	<0.85	<8.1	<0.85	<8.1	<0.81	<0.81
1,1,2-Trichloro-1,2,2-trifluoroethane	--	--	--	--	<2.3	<2.4	<2.3	<2.5	<23.7	<2.5	<23.7	<2.4	<2.4
1,1-Dichloroethane	--	--	720	72,000	<1.2	<1.2	<1.2	<1.3	<12.1	<1.3	<12.1	<1.2	<1.2
1,1-Dichloroethene	--	--	290	29,000	<1.2	<1.2	<1.2	<1.2	<12	<1.2	<12	<1.2	<1.2
1,2,4-Trichlorobenzene	--	--	--	--	<1.4	<1.5	<1.4	<1.5	<14.7	<1.5	<14.7	<1.5	<1.5
1,2,4-Trimethyl-benzene	--	--	8.7	870	8.9	5.3	5.3	11.4	32.1	27.6	20.2	6.9	8.3
1,2-Dibromoethane	--	--	0.068	6.8	<2.3	<2.4	<2.3	<2.5	<23.7	<2.5	<23.7	<2.4	<2.4
1,2-Dichloro-1,1,2,2-tetrafluoroethane	--	--	--	--	<2	<2.1	<2	<2.2	<20.7	<2.2	<20.7	<2.1	<2.1
1,2-Dichlorobenzene	--	--	290	29,000	<1.7	<1.8	<1.7	<1.8	<17.8	<1.8	<17.8	<1.8	<1.8
1,2-Dichloroethane	160	160	1.6	--	<0.59	<0.61	<0.59	<0.63	<6.1	<0.63	<6.1	<0.61	<0.61
1,2-Dichloropropane	--	--	2.1	210	<1.3	<1.4	<1.3	<1.4	<13.9	<1.4	<13.9	<1.4	<1.4
1,3,5-Trimethylbenzene	--	--	8.7	870	3.1	2	1.9	3.4	<14.8	8.6	<14.8	2.8	2.8
1,3-Butadiene	--	--	--	--	<0.64	<0.67	<0.64	<0.69	<6.7	<0.69	<6.7	<0.67	<0.67
1,3-Dichlorobenzene	--	--	150	15,000	<1.7	<1.8	<1.7	<1.8	<17.8	<1.8	<17.8	<1.8	<1.8
1,4-Dichlorobenzene	--	--	6.5	650	1.8	<1.8	<1.7	<1.8	<17.8	2.2	<17.8	<1.8	<1.8
1-Ethyl-4-methyl-benzene	--	--	--	--	6.1	<3.7	<3.6	8	<37	19.4	<37	6.7	5.9
2-Butanone	--	--	7,200	720,000	2.1	2.7	2	2.1	<8.9	2.3	<8.9	6.9	5.8
2-Hexanone	--	--	--	--	<1.2	<1.2	<1.2	<1.3	<12.3	<1.3	<12.3	<1.2	<1.2
4-Methyl-2-pentanone	--	--	4,400	440,000	<1.2	<1.2	<1.2	<1.3	<12.3	<1.3	<12.3	2.7	<1.2
Acetone	--	--	4,600	460,000	58.5	27.2	18	27.3	24.6	48.1	119	84.3	78.3
Benzene	--	--	5.3	530	<0.46	<0.48	<0.46	3.1	<4.8	3.5	<4.8	28.3	3.2
Benzyl Chloride	--	--	--	--	<1.5	<1.6	<1.5	<1.6	<15.5	<1.6	<15.5	<1.6	<1.6
Bromodichloromethane	--	--	2.3	230	<2	<2.1	<2	<2.2	<20.7	<2.2	<20.7	<2.1	<2.1
Bromoform	--	--	37	3,700	7.2	<3.1	<3	<3.2	<31.1	<3.2	<31.1	<3.1	<3.1
Carbon Disulfide	--	--	1,000	100,000	3.3	1.6	1.7	1.5	<9.3	2.6	<9.3	2.4	3.8
Carbon Tetrachloride	--	--	0.41	41	**227**	**219**	**199**	<0.99	<9.5	<0.99	<9.5	<0.95	<0.95
Chlorobenzene	--	--	87	8,700	<1.3	<1.4	<1.3	<1.4	<13.9	<1.4	<13.9	<1.4	<1.4
Chloroethane	--	--	49	4,900	<0.77	<0.8	<0.77	<0.83	<8	<0.83	<8	<0.8	<0.8
Chloroform	--	--	1.8	180	<1.4	27	29.5	<1.5	<14.7	<1.5	<14.7	<1.5	<1.5
cis-1,2-Dichloroethene	--	--	51	5,100	<1.2	<1.2	<1.2	<1.2	<12	<1.2	<12	<1.2	<1.2
cis-1,3-Dichloropropene	--	--	10	1,000	<1.3	<1.4	<1.3	<1.4	<13.6	<1.4	<13.6	<1.4	<1.4
Cyclohexane	--	--	8,700	870,000	3.3	1.9	<0.97	2.6	<10.1	3.1	<10.1	9.1	3.8
Dibromochloromethane	--	--	--	--	<2.4	<2.5	<2.4	<2.6	<25.2	<2.6	<25.2	<2.5	<2.5
Dichlorodifluoromethane	--	--	--	--	<1.4	<1.5	<1.4	<1.5	<14.8	2.2	<14.8	<1.5	1.7
Ethanol	--	--	--	--	14.7	<2.8	3.4	9.8	31.6	7.2	<28.1	60.5	11.1
Ethyl Acetate	--	--	4,600	460,000	<1	<1.1	<1	<1.1	<10.8	<1.1	<10.8	<1.1	<1.1
Ethylbenzene	--	--	1,500	150,000	12.8	3.1	3	13.7	<13	23.4	15.5	20.4	9.6
Heptane	--	--	--	--	5.5	<1.2	1.6	5.1	<12.3	6.4	15.6	25.5	4.1
Hexachloro-1,3-butadiene	--	--	--	--	<3.1	<3.3	<3.1	<3.4	<32.6	<3.4	<32.6	<3.3	<3.3
Hexane	--	--	290	29,000	43	3.2	3.6	6.9	11.9	9.3	37.4	28.4	16.8
Isopropyl Alcohol	--	--	--	--	15.2	<3.7	<3.6	<3.8	<37	<3.8	<37	11.6	<3.7
m,p-Xylenes	--	--	150	15,000	41.3	11.5	11.5	43.6	47.4	81.8	47	52	32.2
Methyl Bromide	--	--	7.2	720	<1.1	<1.2	<1.1	<1.2	<11.7	<1.2	<11.7	<1.2	<1.2
Methyl Chloride	--	--	--	--	<0.6	<0.62	<0.6	<0.65	<6.2	<0.65	<6.2	<0.62	<0.62
Methylene Chloride	--	--	89	8,900	64	<1.1	<1	<1.1	18.1	2.5	27.3	1.2	4.8
Methyl-tert-butyl-ether	--	--	160	16,000	<1	<1.1	<1	<1.1	<10.8	<1.1	<10.8	<1.1	<1.1
Naphthalene	--	--	--	--	<3.9	<4	<3.9	<4.2	87.8	<4.2	<40	<4	<4
o-Xylene	--	--	150	15,000	14	4.4	4.2	15	16.4	30.6	14.5	16.1	11.6
Propene	--	--	--	--	<0.5	<0.52	<0.5	<0.54	<5.2	<0.54	<5.2	<0.52	<0.52
Styrene	--	--	1,500	150,000	<1.2	<1.3	<1.2	2.2	<12.9	<1.3	<12.9	5.9	1.9
Tetrachloroethene	680	680	6.8	--	**1,280**	**1,490**	**2,300**	**4,330**	**2,920**	1.8	<10.2	31.9	15.6
Tetrahydrofuran	--	--	--	--	<0.86	<0.89	<0.86	<0.92	<8.9	<0.92	<8.9	<0.89	<0.89
Toluene	--	--	7,200	720,000	133	100	83.4	125	355	185	839	757	1,100
trans-1,2-Dichloroethene	--	--	100	10,000	<1.2	<1.2	<1.2	<1.2	<12	<1.2	<12	<1.2	<1.2
trans-1,3-Dichloropropene	--	--	10	1,000	<1.3	<1.4	<1.3	<1.4	<13.6	<1.4	<13.6	<1.4	<1.4
Trichloroethene	790	790	7.9	--	83.5	198	201	<0.85	<8.1	<0.85	<8.1	0.87	<0.81
Trichlorofluoromethane	--	--	--	--	2,120	1,910	229	8.6	<16.3	4	<16.3	183	728
Vinyl Acetate	--	--	290	29,000	<1	<1.1	<1	<1.1	<10.5	<1.1	<10.5	<1.1	<1.1
Vinyl Chloride	890	890	8.9	--	<0.37	<0.38	<0.37	<0.4	<3.8	<0.4	<3.8	<0.38	<0.38

Notes:

a. ug/m^3 = microgram per cubic meter.

b. Results shown in **bold** and shaded exceed IDEM Default Guidance Commercail Screening Prompt Action Level (25-year exp. duration).

FIGURE

0 20 40 80 Feet
1:960

N

SGP-1D

8/29/2011	
Carbon Tetrachloride	227
cis-1,2-Dichloroethene	<1.2
Tetrachloroethene	1280
Trichloroethene	83.5
Vinyl Chloride	<0.37

SGP-1S

8/29/2011	
Carbon Tetrachloride	219
cis-1,2-Dichloroethene	<1.2
Tetrachloroethene	1490
Trichloroethene	198
Vinyl Chloride	<0.38

FD1 (SGP-1S)

8/29/2011	
Carbon Tetrachloride	199
cis-1,2-Dichloroethene	<1.2
Tetrachloroethene	2300
Trichloroethene	201
Vinyl Chloride	<0.37

SGP-4D

8/29/2011	
cis-1,2-Dichloroethene	<1.2
Tetrachloroethene	31.9
Trichloroethene	0.87
Vinyl Chloride	<0.38

SGP-4S

8/29/2011	
cis-1,2-Dichloroethene	<1.2
Tetrachloroethene	15.6
Trichloroethene	<0.81
Vinyl Chloride	<0.38

SGP-2D

8/29/2011	
cis-1,2-Dichloroethene	<1.2
Tetrachloroethene	4330
Trichloroethene	<0.85
Vinyl Chloride	<0.4

SGP-2S

8/29/2011	
cis-1,2-Dichloroethene	<12
Tetrachloroethene	2920
Trichloroethene	<8.1
Vinyl Chloride	<3.8

SGP-3D

8/29/2011	
cis-1,2-Dichloroethene	<1.2
Tetrachloroethene	1.8
Trichloroethene	<0.85
Vinyl Chloride	<0.4

SGP-3S

8/29/2011	
cis-1,2-Dichloroethene	<12
Tetrachloroethene	<10.2
Trichloroethene	<8.1
Vinyl Chloride	<3.8

Note:
Results shown in **red** exceed IDEM Default Guidance Commercail Screening Prompt Action Level (25-year exp. duration).

Legend

- Area A Boundary
- Lot4
- Overexcavated Area (January 2011)
- Soil Gas Sampling Location
  S = Shallow; D = Deep Sampling Depth

Area A - Hull Soil Borings and Monitoring Wells

- Monitoring Well Nest Locations, S=Shallow, I=Intermediate (HMW-#S/I) (September 2002)
- Soil Boring to 4 Feet (GB-#) (February 2002)
- Soil Boring (July 2003)

South Bend Foundry, Eckler-Lahey and Norfolk Southern

Phase II ESA Sampling Locations

- Shallow Soil Boring (HSB-#) (January 2007)
- Shallow Soil Boring/Groundwater Sampling (HSB-#) (January 2007)
- Groundwater Sampling (HSB-#) (January 2007)

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October 2011

Proposed Lot 4 Site

Concentrations of Chlorinated VOCs in Soil Gas

1406 South Franklin Street
South Bend, St. Joseph County, Indiana

Figure 1

Produced using ArcGIS 10.0 SP1
Geodatabase: HAIGIS.mdb
File Name: SBI065_01_Fig01_SoilGasCVOCs.mxd
Edited: 10/7/2011 By: jslifer

ATTACHMENT A

Laboratory Report

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

September 07, 2011

Doug Stuart
Hull and Associates
6435 Castleway West Drive
Suite 119
Indianapolis, IN 46250

RE: Project: SBI065
Pace Project No.: 10167963

Dear Doug Stuart:
Enclosed are the analytical results for sample(s) received by the laboratory on August 30, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: SBI065
Pace Project No.: 10167963

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: SBI065
Pace Project No.: 10167963

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10167963001	**SGP-1S:A082911**	Air	08/29/11 10:56	08/30/11 09:15
10167963002	**SGP-1D:A082911**	Air	08/29/11 11:14	08/30/11 09:15
10167963003	**SGP-2S:A082911**	Air	08/29/11 11:18	08/30/11 09:15
10167963004	**SGP-2D:A082911**	Air	08/29/11 11:18	08/30/11 09:15
10167963005	**FD1-A082911**	Air	08/29/11 11:30	08/30/11 09:15
10167963006	**SGP-3S:A082911**	Air	08/29/11 11:29	08/30/11 09:15
10167963007	**SGP-3D:A082911**	Air	08/29/11 11:33	08/30/11 09:15
10167963008	**SGP-4S:A082911**	Air	08/29/11 11:44	08/30/11 09:15
10167963009	**SGP-4D:A082911**	Air	08/29/11 11:40	08/30/11 09:15

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SAMPLE ANALYTE COUNT

Project: SBI065
Pace Project No.: 10167963

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10167963001	**SGP-1S:A082911**	TO-15	DR1	61
10167963002	**SGP-1D:A082911**	TO-15	DR1	61
10167963003	**SGP-2S:A082911**	TO-15	DR1	61
10167963004	**SGP-2D:A082911**	TO-15	DR1	61
10167963005	**FD1-A082911**	TO-15	DR1	61
10167963006	**SGP-3S:A082911**	TO-15	DR1	61
10167963007	**SGP-3D:A082911**	TO-15	DR1	61
10167963008	**SGP-4S:A082911**	TO-15	DR1	61
10167963009	**SGP-4D:A082911**	TO-15	DR1	61

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ANALYTICAL RESULTS

Project: SBI065
Pace Project No.: 10167963

Sample: SGP-1S:A082911 **Lab ID: 10167963001** Collected: 08/29/11 10:56 Received: 08/30/11 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**27.2**	ug/m3	0.71	1.48		08/31/11 18:09	67-64-1	
Benzene	ND	ug/m3	0.48	1.48		08/31/11 18:09	71-43-2	
Benzyl chloride	ND	ug/m3	1.6	1.48		08/31/11 18:09	100-44-7	
Bromodichloromethane	ND	ug/m3	2.1	1.48		08/31/11 18:09	75-27-4	
Bromoform	ND	ug/m3	3.1	1.48		08/31/11 18:09	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.48		08/31/11 18:09	74-83-9	
1,3-Butadiene	ND	ug/m3	0.67	1.48		08/31/11 18:09	106-99-0	
2-Butanone (MEK)	**2.7**	ug/m3	0.89	1.48		08/31/11 18:09	78-93-3	
Carbon disulfide	**1.6**	ug/m3	0.93	1.48		08/31/11 18:09	75-15-0	
Carbon tetrachloride	**219**	ug/m3	0.95	1.48		08/31/11 18:09	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	1.48		08/31/11 18:09	108-90-7	
Chloroethane	ND	ug/m3	0.80	1.48		08/31/11 18:09	75-00-3	
Chloroform	**27.0**	ug/m3	1.5	1.48		08/31/11 18:09	67-66-3	
Chloromethane	ND	ug/m3	0.62	1.48		08/31/11 18:09	74-87-3	
Cyclohexane	**1.9**	ug/m3	1.0	1.48		08/31/11 18:09	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.48		08/31/11 18:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.4	1.48		08/31/11 18:09	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	1.48		08/31/11 18:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	1.48		08/31/11 18:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	1.48		08/31/11 18:09	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.5	1.48		08/31/11 18:09	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	1.48		08/31/11 18:09	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.61	1.48		08/31/11 18:09	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.48		08/31/11 18:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.48		08/31/11 18:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.48		08/31/11 18:09	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	1.48		08/31/11 18:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.48		08/31/11 18:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.48		08/31/11 18:09	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	1.48		08/31/11 18:09	76-14-2	
Ethanol	ND	ug/m3	2.8	1.48		08/31/11 18:09	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	1.48		08/31/11 18:09	141-78-6	
Ethylbenzene	**3.1**	ug/m3	1.3	1.48		08/31/11 18:09	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.7	1.48		08/31/11 18:09	622-96-8	
n-Heptane	ND	ug/m3	1.2	1.48		08/31/11 18:09	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.3	1.48		08/31/11 18:09	87-68-3	
n-Hexane	**3.2**	ug/m3	1.1	1.48		08/31/11 18:09	110-54-3	
2-Hexanone	ND	ug/m3	1.2	1.48		08/31/11 18:09	591-78-6	
Methylene Chloride	ND	ug/m3	1.1	1.48		08/31/11 18:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	1.48		08/31/11 18:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.48		08/31/11 18:09	1634-04-4	
Naphthalene	ND	ug/m3	4.0	1.48		08/31/11 18:09	91-20-3	
2-Propanol	ND	ug/m3	3.7	1.48		08/31/11 18:09	67-63-0	
Propylene	ND	ug/m3	0.52	1.48		08/31/11 18:09	115-07-1	
Styrene	ND	ug/m3	1.3	1.48		08/31/11 18:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	1.48		08/31/11 18:09	79-34-5	
Tetrachloroethene	**1490**	ug/m3	10.2	14.8		09/02/11 08:05	127-18-4	

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ANALYTICAL RESULTS

Project: SBI065
Pace Project No.: 10167963

Sample: SGP-1S:A082911 **Lab ID: 10167963001** Collected: 08/29/11 10:56 Received: 08/30/11 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	0.89	1.48		08/31/11 18:09	109-99-9	
Toluene	**100**	ug/m3	1.1	1.48		08/31/11 18:09	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.5	1.48		08/31/11 18:09	120-82-1	
1,1,1-Trichloroethane	**6.1**	ug/m3	1.6	1.48		08/31/11 18:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.81	1.48		08/31/11 18:09	79-00-5	
Trichloroethene	**198**	ug/m3	0.81	1.48		08/31/11 18:09	79-01-6	
Trichlorofluoromethane	**1910**	ug/m3	16.3	14.8		09/02/11 08:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	1.48		08/31/11 18:09	76-13-1	
1,2,4-Trimethylbenzene	**5.3**	ug/m3	1.5	1.48		08/31/11 18:09	95-63-6	
1,3,5-Trimethylbenzene	**2.0**	ug/m3	1.5	1.48		08/31/11 18:09	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.48		08/31/11 18:09	108-05-4	
Vinyl chloride	ND	ug/m3	0.38	1.48		08/31/11 18:09	75-01-4	
m&p-Xylene	**11.5**	ug/m3	2.6	1.48		08/31/11 18:09	179601-23-1	
o-Xylene	**4.4**	ug/m3	1.3	1.48		08/31/11 18:09	95-47-6	

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ANALYTICAL RESULTS

Project: SBI065
Pace Project No.: 10167963

Sample: SGP-1D:A082911 **Lab ID: 10167963002** Collected: 08/29/11 11:14 Received: 08/30/11 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**58.5**	ug/m3	0.69	1.43		08/31/11 18:38	67-64-1	
Benzene	ND	ug/m3	0.46	1.43		08/31/11 18:38	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	1.43		08/31/11 18:38	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	1.43		08/31/11 18:38	75-27-4	
Bromoform	**7.2**	ug/m3	3.0	1.43		08/31/11 18:38	75-25-2	
Bromomethane	ND	ug/m3	1.1	1.43		08/31/11 18:38	74-83-9	
1,3-Butadiene	ND	ug/m3	0.64	1.43		08/31/11 18:38	106-99-0	
2-Butanone (MEK)	**2.1**	ug/m3	0.86	1.43		08/31/11 18:38	78-93-3	
Carbon disulfide	**3.3**	ug/m3	0.90	1.43		08/31/11 18:38	75-15-0	
Carbon tetrachloride	**227**	ug/m3	0.92	1.43		08/31/11 18:38	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	1.43		08/31/11 18:38	108-90-7	
Chloroethane	ND	ug/m3	0.77	1.43		08/31/11 18:38	75-00-3	
Chloroform	ND	ug/m3	1.4	1.43		08/31/11 18:38	67-66-3	
Chloromethane	ND	ug/m3	0.60	1.43		08/31/11 18:38	74-87-3	
Cyclohexane	**3.3**	ug/m3	0.97	1.43		08/31/11 18:38	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.43		08/31/11 18:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.3	1.43		08/31/11 18:38	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	1.43		08/31/11 18:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	1.43		08/31/11 18:38	541-73-1	
1,4-Dichlorobenzene	**1.8**	ug/m3	1.7	1.43		08/31/11 18:38	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.4	1.43		08/31/11 18:38	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	1.43		08/31/11 18:38	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	1.43		08/31/11 18:38	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.43		08/31/11 18:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.43		08/31/11 18:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.43		08/31/11 18:38	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	1.43		08/31/11 18:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	1.43		08/31/11 18:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	1.43		08/31/11 18:38	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	1.43		08/31/11 18:38	76-14-2	
Ethanol	**14.7**	ug/m3	2.7	1.43		08/31/11 18:38	64-17-5	
Ethyl acetate	ND	ug/m3	1.0	1.43		08/31/11 18:38	141-78-6	
Ethylbenzene	**12.8**	ug/m3	1.3	1.43		08/31/11 18:38	100-41-4	
4-Ethyltoluene	**6.1**	ug/m3	3.6	1.43		08/31/11 18:38	622-96-8	
n-Heptane	**5.5**	ug/m3	1.2	1.43		08/31/11 18:38	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	1.43		08/31/11 18:38	87-68-3	
n-Hexane	**43.0**	ug/m3	1.0	1.43		08/31/11 18:38	110-54-3	
2-Hexanone	ND	ug/m3	1.2	1.43		08/31/11 18:38	591-78-6	
Methylene Chloride	**64.0**	ug/m3	13.1	18.49		09/01/11 10:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	1.43		08/31/11 18:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.0	1.43		08/31/11 18:38	1634-04-4	
Naphthalene	ND	ug/m3	3.9	1.43		08/31/11 18:38	91-20-3	
2-Propanol	**15.2**	ug/m3	3.6	1.43		08/31/11 18:38	67-63-0	
Propylene	ND	ug/m3	0.50	1.43		08/31/11 18:38	115-07-1	
Styrene	ND	ug/m3	1.2	1.43		08/31/11 18:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	1.43		08/31/11 18:38	79-34-5	
Tetrachloroethene	**1280**	ug/m3	12.7	18.49		09/01/11 10:35	127-18-4	

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ANALYTICAL RESULTS

Project: SBI065
Pace Project No.: 10167963

Sample: SGP-1D:A082911 **Lab ID: 10167963002** Collected: 08/29/11 11:14 Received: 08/30/11 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	0.86	1.43		08/31/11 18:38	109-99-9	
Toluene	**133**	ug/m3	1.1	1.43		08/31/11 18:38	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.4	1.43		08/31/11 18:38	120-82-1	
1,1,1-Trichloroethane	**4.0**	ug/m3	1.6	1.43		08/31/11 18:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.79	1.43		08/31/11 18:38	79-00-5	
Trichloroethene	**83.5**	ug/m3	0.79	1.43		08/31/11 18:38	79-01-6	
Trichlorofluoromethane	**2120**	ug/m3	20.3	18.49		09/01/11 10:35	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	1.43		08/31/11 18:38	76-13-1	
1,2,4-Trimethylbenzene	**8.9**	ug/m3	1.4	1.43		08/31/11 18:38	95-63-6	
1,3,5-Trimethylbenzene	**3.1**	ug/m3	1.4	1.43		08/31/11 18:38	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	1.43		08/31/11 18:38	108-05-4	
Vinyl chloride	ND	ug/m3	0.37	1.43		08/31/11 18:38	75-01-4	
m&p-Xylene	**41.3**	ug/m3	2.5	1.43		08/31/11 18:38	179601-23-1	
o-Xylene	**14.0**	ug/m3	1.3	1.43		08/31/11 18:38	95-47-6	

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ANALYTICAL RESULTS

Project: SBI065
Pace Project No.: 10167963

Sample: SGP-2S:A082911 **Lab ID: 10167963003** Collected: 08/29/11 11:18 Received: 08/30/11 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Dichlorodifluoromethane	ND	ug/m3	14.8	14.8		09/01/11 17:30	75-71-8	
Chloromethane	ND	ug/m3	6.2	14.8		09/01/11 17:30	74-87-3	
Dichlorotetrafluoroethane	ND	ug/m3	20.7	14.8		09/01/11 17:30	76-14-2	
Vinyl chloride	ND	ug/m3	3.8	14.8		09/01/11 17:30	75-01-4	
Bromomethane	ND	ug/m3	11.7	14.8		09/01/11 17:30	74-83-9	
Chloroethane	ND	ug/m3	8.0	14.8		09/01/11 17:30	75-00-3	
Trichlorofluoromethane	ND	ug/m3	16.3	14.8		09/01/11 17:30	75-69-4	
1,1-Dichloroethene	ND	ug/m3	12.0	14.8		09/01/11 17:30	75-35-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	23.7	14.8		09/01/11 17:30	76-13-1	
Methylene Chloride	**18.1**	ug/m3	10.5	14.8		09/01/11 17:30	75-09-2	
1,1-Dichloroethane	ND	ug/m3	12.1	14.8		09/01/11 17:30	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	12.0	14.8		09/01/11 17:30	156-59-2	
Chloroform	ND	ug/m3	14.7	14.8		09/01/11 17:30	67-66-3	
1,1,1-Trichloroethane	ND	ug/m3	16.3	14.8		09/01/11 17:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	8.1	14.8		09/01/11 17:30	79-00-5	
1,2-Dichloroethane	ND	ug/m3	6.1	14.8		09/01/11 17:30	107-06-2	
Benzene	ND	ug/m3	4.8	14.8		09/01/11 17:30	71-43-2	
Carbon tetrachloride	ND	ug/m3	9.5	14.8		09/01/11 17:30	56-23-5	
1,2-Dichloropropane	ND	ug/m3	13.9	14.8		09/01/11 17:30	78-87-5	
Trichloroethene	ND	ug/m3	8.1	14.8		09/01/11 17:30	79-01-6	
cis-1,3-Dichloropropene	ND	ug/m3	13.6	14.8		09/01/11 17:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	13.6	14.8		09/01/11 17:30	10061-02-6	
Toluene	**355**	ug/m3	11.4	14.8		09/01/11 17:30	108-88-3	
1,2-Dibromoethane (EDB)	ND	ug/m3	23.7	14.8		09/01/11 17:30	106-93-4	
Tetrachloroethene	**2920**	ug/m3	10.2	14.8		09/01/11 17:30	127-18-4	
Chlorobenzene	ND	ug/m3	13.9	14.8		09/01/11 17:30	108-90-7	
Ethylbenzene	ND	ug/m3	13.0	14.8		09/01/11 17:30	100-41-4	
m&p-Xylene	**47.4**	ug/m3	26.0	14.8		09/01/11 17:30	179601-23-1	
Styrene	ND	ug/m3	12.9	14.8		09/01/11 17:30	100-42-5	
o-Xylene	**16.4**	ug/m3	13.0	14.8		09/01/11 17:30	95-47-6	
1,1,2,2-Tetrachloroethane	ND	ug/m3	10.3	14.8		09/01/11 17:30	79-34-5	
1,3,5-Trimethylbenzene	ND	ug/m3	14.8	14.8		09/01/11 17:30	108-67-8	
1,2,4-Trimethylbenzene	**32.1**	ug/m3	14.8	14.8		09/01/11 17:30	95-63-6	
1,3-Dichlorobenzene	ND	ug/m3	17.8	14.8		09/01/11 17:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	17.8	14.8		09/01/11 17:30	106-46-7	
1,2-Dichlorobenzene	ND	ug/m3	17.8	14.8		09/01/11 17:30	95-50-1	
1,2,4-Trichlorobenzene	ND	ug/m3	14.7	14.8		09/01/11 17:30	120-82-1	
Hexachloro-1,3-butadiene	ND	ug/m3	32.6	14.8		09/01/11 17:30	87-68-3	
Tetrahydrofuran	ND	ug/m3	8.9	14.8		09/01/11 17:30	109-99-9	
Acetone	**24.6**	ug/m3	7.1	14.8		09/01/11 17:30	67-64-1	
2-Butanone (MEK)	ND	ug/m3	8.9	14.8		09/01/11 17:30	78-93-3	
n-Hexane	**11.9**	ug/m3	10.7	14.8		09/01/11 17:30	110-54-3	
Methyl-tert-butyl ether	ND	ug/m3	10.8	14.8		09/01/11 17:30	1634-04-4	
Dibromochloromethane	ND	ug/m3	25.2	14.8		09/01/11 17:30	124-48-1	
1,3-Butadiene	ND	ug/m3	6.7	14.8		09/01/11 17:30	106-99-0	
Carbon disulfide	ND	ug/m3	9.3	14.8		09/01/11 17:30	75-15-0	
Vinyl acetate	ND	ug/m3	10.5	14.8		09/01/11 17:30	108-05-4	

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ANALYTICAL RESULTS

Project: SBI065
Pace Project No.: 10167963

Sample: SGP-2S:A082911 **Lab ID: 10167963003** Collected: 08/29/11 11:18 Received: 08/30/11 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Cyclohexane	ND	ug/m3	10.1	14.8		09/01/11 17:30	110-82-7	
Ethyl acetate	ND	ug/m3	10.8	14.8		09/01/11 17:30	141-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	12.3	14.8		09/01/11 17:30	108-10-1	
2-Hexanone	ND	ug/m3	12.3	14.8		09/01/11 17:30	591-78-6	
Bromoform	ND	ug/m3	31.1	14.8		09/01/11 17:30	75-25-2	
trans-1,2-Dichloroethene	ND	ug/m3	12.0	14.8		09/01/11 17:30	156-60-5	
Bromodichloromethane	ND	ug/m3	20.7	14.8		09/01/11 17:30	75-27-4	
n-Heptane	ND	ug/m3	12.3	14.8		09/01/11 17:30	142-82-5	
Propylene	ND	ug/m3	5.2	14.8		09/01/11 17:30	115-07-1	
4-Ethyltoluene	ND	ug/m3	37.0	14.8		09/01/11 17:30	622-96-8	
Naphthalene	**87.8**	ug/m3	40.0	14.8		09/01/11 17:30	91-20-3	
Ethanol	**31.6**	ug/m3	28.1	14.8		09/01/11 17:30	64-17-5	
2-Propanol	ND	ug/m3	37.0	14.8		09/01/11 17:30	67-63-0	
Benzyl chloride	ND	ug/m3	15.5	14.8		09/01/11 17:30	100-44-7	

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ANALYTICAL RESULTS

Project: SBI065
Pace Project No.: 10167963

Sample: SGP-2D:A082911 **Lab ID: 10167963004** Collected: 08/29/11 11:18 Received: 08/30/11 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**27.3**	ug/m3	0.74	1.54		08/31/11 19:36	67-64-1	
Benzene	**3.1**	ug/m3	0.50	1.54		08/31/11 19:36	71-43-2	
Benzyl chloride	ND	ug/m3	1.6	1.54		08/31/11 19:36	100-44-7	
Bromodichloromethane	ND	ug/m3	2.2	1.54		08/31/11 19:36	75-27-4	
Bromoform	ND	ug/m3	3.2	1.54		08/31/11 19:36	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.54		08/31/11 19:36	74-83-9	
1,3-Butadiene	ND	ug/m3	0.69	1.54		08/31/11 19:36	106-99-0	
2-Butanone (MEK)	**2.1**	ug/m3	0.92	1.54		08/31/11 19:36	78-93-3	
Carbon disulfide	**1.5**	ug/m3	0.97	1.54		08/31/11 19:36	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.99	1.54		08/31/11 19:36	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	1.54		08/31/11 19:36	108-90-7	
Chloroethane	ND	ug/m3	0.83	1.54		08/31/11 19:36	75-00-3	
Chloroform	ND	ug/m3	1.5	1.54		08/31/11 19:36	67-66-3	
Chloromethane	ND	ug/m3	0.65	1.54		08/31/11 19:36	74-87-3	
Cyclohexane	**2.6**	ug/m3	1.0	1.54		08/31/11 19:36	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	1.54		08/31/11 19:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.54		08/31/11 19:36	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	1.54		08/31/11 19:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	1.54		08/31/11 19:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	1.54		08/31/11 19:36	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.5	1.54		08/31/11 19:36	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.54		08/31/11 19:36	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.63	1.54		08/31/11 19:36	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.54		08/31/11 19:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.54		08/31/11 19:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.54		08/31/11 19:36	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	1.54		08/31/11 19:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.54		08/31/11 19:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.54		08/31/11 19:36	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.54		08/31/11 19:36	76-14-2	
Ethanol	**9.8**	ug/m3	2.9	1.54		08/31/11 19:36	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	1.54		08/31/11 19:36	141-78-6	
Ethylbenzene	**13.7**	ug/m3	1.4	1.54		08/31/11 19:36	100-41-4	
4-Ethyltoluene	**8.0**	ug/m3	3.8	1.54		08/31/11 19:36	622-96-8	
n-Heptane	**5.1**	ug/m3	1.3	1.54		08/31/11 19:36	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.4	1.54		08/31/11 19:36	87-68-3	
n-Hexane	**6.9**	ug/m3	1.1	1.54		08/31/11 19:36	110-54-3	
2-Hexanone	ND	ug/m3	1.3	1.54		08/31/11 19:36	591-78-6	
Methylene Chloride	ND	ug/m3	1.1	1.54		08/31/11 19:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.54		08/31/11 19:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.54		08/31/11 19:36	1634-04-4	
Naphthalene	ND	ug/m3	4.2	1.54		08/31/11 19:36	91-20-3	
2-Propanol	ND	ug/m3	3.8	1.54		08/31/11 19:36	67-63-0	
Propylene	ND	ug/m3	0.54	1.54		08/31/11 19:36	115-07-1	
Styrene	**2.2**	ug/m3	1.3	1.54		08/31/11 19:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.1	1.54		08/31/11 19:36	79-34-5	
Tetrachloroethene	**4330**	ug/m3	21.2	30.8		09/01/11 16:32	127-18-4	

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ANALYTICAL RESULTS

Project: SBI065
Pace Project No.: 10167963

Sample: SGP-2D:A082911 **Lab ID: 10167963004** Collected: 08/29/11 11:18 Received: 08/30/11 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	0.92	1.54		08/31/11 19:36	109-99-9	
Toluene	**125**	ug/m3	1.2	1.54		08/31/11 19:36	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.5	1.54		08/31/11 19:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.54		08/31/11 19:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.85	1.54		08/31/11 19:36	79-00-5	
Trichloroethene	ND	ug/m3	0.85	1.54		08/31/11 19:36	79-01-6	
Trichlorofluoromethane	**8.6**	ug/m3	1.7	1.54		08/31/11 19:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.54		08/31/11 19:36	76-13-1	
1,2,4-Trimethylbenzene	**11.4**	ug/m3	1.5	1.54		08/31/11 19:36	95-63-6	
1,3,5-Trimethylbenzene	**3.4**	ug/m3	1.5	1.54		08/31/11 19:36	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.54		08/31/11 19:36	108-05-4	
Vinyl chloride	ND	ug/m3	0.40	1.54		08/31/11 19:36	75-01-4	
m&p-Xylene	**43.6**	ug/m3	2.7	1.54		08/31/11 19:36	179601-23-1	
o-Xylene	**15.0**	ug/m3	1.4	1.54		08/31/11 19:36	95-47-6	

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ANALYTICAL RESULTS

Project: SBI065
Pace Project No.: 10167963

Sample: FD1-A082911 **Lab ID: 10167963005** Collected: 08/29/11 11:30 Received: 08/30/11 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**18.0**	ug/m3	0.69	1.43		08/31/11 20:04	67-64-1	
Benzene	ND	ug/m3	0.46	1.43		08/31/11 20:04	71-43-2	
Benzyl chloride	ND	ug/m3	1.5	1.43		08/31/11 20:04	100-44-7	
Bromodichloromethane	ND	ug/m3	2.0	1.43		08/31/11 20:04	75-27-4	
Bromoform	ND	ug/m3	3.0	1.43		08/31/11 20:04	75-25-2	
Bromomethane	ND	ug/m3	1.1	1.43		08/31/11 20:04	74-83-9	
1,3-Butadiene	ND	ug/m3	0.64	1.43		08/31/11 20:04	106-99-0	
2-Butanone (MEK)	**2.0**	ug/m3	0.86	1.43		08/31/11 20:04	78-93-3	
Carbon disulfide	**1.7**	ug/m3	0.90	1.43		08/31/11 20:04	75-15-0	
Carbon tetrachloride	**199**	ug/m3	0.92	1.43		08/31/11 20:04	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	1.43		08/31/11 20:04	108-90-7	
Chloroethane	ND	ug/m3	0.77	1.43		08/31/11 20:04	75-00-3	
Chloroform	**29.5**	ug/m3	1.4	1.43		08/31/11 20:04	67-66-3	
Chloromethane	ND	ug/m3	0.60	1.43		08/31/11 20:04	74-87-3	
Cyclohexane	ND	ug/m3	0.97	1.43		08/31/11 20:04	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.43		08/31/11 20:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.3	1.43		08/31/11 20:04	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	1.43		08/31/11 20:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	1.43		08/31/11 20:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	1.43		08/31/11 20:04	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.4	1.43		08/31/11 20:04	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	1.43		08/31/11 20:04	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	1.43		08/31/11 20:04	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.43		08/31/11 20:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.43		08/31/11 20:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.43		08/31/11 20:04	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	1.43		08/31/11 20:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	1.43		08/31/11 20:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	1.43		08/31/11 20:04	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	1.43		08/31/11 20:04	76-14-2	
Ethanol	**3.4**	ug/m3	2.7	1.43		08/31/11 20:04	64-17-5	
Ethyl acetate	ND	ug/m3	1.0	1.43		08/31/11 20:04	141-78-6	
Ethylbenzene	**3.0**	ug/m3	1.3	1.43		08/31/11 20:04	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.6	1.43		08/31/11 20:04	622-96-8	
n-Heptane	**1.6**	ug/m3	1.2	1.43		08/31/11 20:04	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	1.43		08/31/11 20:04	87-68-3	
n-Hexane	**3.6**	ug/m3	1.0	1.43		08/31/11 20:04	110-54-3	
2-Hexanone	ND	ug/m3	1.2	1.43		08/31/11 20:04	591-78-6	
Methylene Chloride	ND	ug/m3	1.0	1.43		08/31/11 20:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	1.43		08/31/11 20:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.0	1.43		08/31/11 20:04	1634-04-4	
Naphthalene	ND	ug/m3	3.9	1.43		08/31/11 20:04	91-20-3	
2-Propanol	ND	ug/m3	3.6	1.43		08/31/11 20:04	67-63-0	
Propylene	ND	ug/m3	0.50	1.43		08/31/11 20:04	115-07-1	
Styrene	ND	ug/m3	1.2	1.43		08/31/11 20:04	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	1.43		08/31/11 20:04	79-34-5	
Tetrachloroethene	**2300**	ug/m3	19.7	28.6		09/01/11 17:01	127-18-4	

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ANALYTICAL RESULTS

Project: SBI065
Pace Project No.: 10167963

Sample: FD1-A082911 **Lab ID: 10167963005** Collected: 08/29/11 11:30 Received: 08/30/11 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	0.86	1.43		08/31/11 20:04	109-99-9	
Toluene	**83.4**	ug/m3	1.1	1.43		08/31/11 20:04	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.4	1.43		08/31/11 20:04	120-82-1	
1,1,1-Trichloroethane	**19.5**	ug/m3	1.6	1.43		08/31/11 20:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.79	1.43		08/31/11 20:04	79-00-5	
Trichloroethene	**201**	ug/m3	0.79	1.43		08/31/11 20:04	79-01-6	
Trichlorofluoromethane	**229**	ug/m3	1.6	1.43		08/31/11 20:04	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	1.43		08/31/11 20:04	76-13-1	
1,2,4-Trimethylbenzene	**5.3**	ug/m3	1.4	1.43		08/31/11 20:04	95-63-6	
1,3,5-Trimethylbenzene	**1.9**	ug/m3	1.4	1.43		08/31/11 20:04	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	1.43		08/31/11 20:04	108-05-4	
Vinyl chloride	ND	ug/m3	0.37	1.43		08/31/11 20:04	75-01-4	
m&p-Xylene	**11.5**	ug/m3	2.5	1.43		08/31/11 20:04	179601-23-1	
o-Xylene	**4.2**	ug/m3	1.3	1.43		08/31/11 20:04	95-47-6	

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ANALYTICAL RESULTS

Project: SBI065
Pace Project No.: 10167963

Sample: SGP-3S:A082911 **Lab ID: 10167963006** Collected: 08/29/11 11:29 Received: 08/30/11 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**119**	ug/m3	7.1	14.8		09/01/11 18:28	67-64-1	
Benzene	ND	ug/m3	4.8	14.8		09/01/11 18:28	71-43-2	
Benzyl chloride	ND	ug/m3	15.5	14.8		09/01/11 18:28	100-44-7	
Bromodichloromethane	ND	ug/m3	20.7	14.8		09/01/11 18:28	75-27-4	
Bromoform	ND	ug/m3	31.1	14.8		09/01/11 18:28	75-25-2	
Bromomethane	ND	ug/m3	11.7	14.8		09/01/11 18:28	74-83-9	
1,3-Butadiene	ND	ug/m3	6.7	14.8		09/01/11 18:28	106-99-0	
2-Butanone (MEK)	ND	ug/m3	8.9	14.8		09/01/11 18:28	78-93-3	
Carbon disulfide	ND	ug/m3	9.3	14.8		09/01/11 18:28	75-15-0	
Carbon tetrachloride	ND	ug/m3	9.5	14.8		09/01/11 18:28	56-23-5	
Chlorobenzene	ND	ug/m3	13.9	14.8		09/01/11 18:28	108-90-7	
Chloroethane	ND	ug/m3	8.0	14.8		09/01/11 18:28	75-00-3	
Chloroform	ND	ug/m3	14.7	14.8		09/01/11 18:28	67-66-3	
Chloromethane	ND	ug/m3	6.2	14.8		09/01/11 18:28	74-87-3	
Cyclohexane	ND	ug/m3	10.1	14.8		09/01/11 18:28	110-82-7	
Dibromochloromethane	ND	ug/m3	25.2	14.8		09/01/11 18:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	23.7	14.8		09/01/11 18:28	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	17.8	14.8		09/01/11 18:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	17.8	14.8		09/01/11 18:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	17.8	14.8		09/01/11 18:28	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	14.8	14.8		09/01/11 18:28	75-71-8	
1,1-Dichloroethane	ND	ug/m3	12.1	14.8		09/01/11 18:28	75-34-3	
1,2-Dichloroethane	ND	ug/m3	6.1	14.8		09/01/11 18:28	107-06-2	
1,1-Dichloroethene	ND	ug/m3	12.0	14.8		09/01/11 18:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	12.0	14.8		09/01/11 18:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	12.0	14.8		09/01/11 18:28	156-60-5	
1,2-Dichloropropane	ND	ug/m3	13.9	14.8		09/01/11 18:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	13.6	14.8		09/01/11 18:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	13.6	14.8		09/01/11 18:28	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	20.7	14.8		09/01/11 18:28	76-14-2	
Ethanol	ND	ug/m3	28.1	14.8		09/01/11 18:28	64-17-5	
Ethyl acetate	ND	ug/m3	10.8	14.8		09/01/11 18:28	141-78-6	
Ethylbenzene	**15.5**	ug/m3	13.0	14.8		09/01/11 18:28	100-41-4	
4-Ethyltoluene	ND	ug/m3	37.0	14.8		09/01/11 18:28	622-96-8	
n-Heptane	**15.6**	ug/m3	12.3	14.8		09/01/11 18:28	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	32.6	14.8		09/01/11 18:28	87-68-3	
n-Hexane	**37.4**	ug/m3	10.7	14.8		09/01/11 18:28	110-54-3	
2-Hexanone	ND	ug/m3	12.3	14.8		09/01/11 18:28	591-78-6	
Methylene Chloride	**27.3**	ug/m3	10.5	14.8		09/01/11 18:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	12.3	14.8		09/01/11 18:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	10.8	14.8		09/01/11 18:28	1634-04-4	
Naphthalene	ND	ug/m3	40.0	14.8		09/01/11 18:28	91-20-3	
2-Propanol	ND	ug/m3	37.0	14.8		09/01/11 18:28	67-63-0	
Propylene	ND	ug/m3	5.2	14.8		09/01/11 18:28	115-07-1	
Styrene	ND	ug/m3	12.9	14.8		09/01/11 18:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	10.3	14.8		09/01/11 18:28	79-34-5	
Tetrachloroethene	ND	ug/m3	10.2	14.8		09/01/11 18:28	127-18-4	

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ANALYTICAL RESULTS

Project: SBI065
Pace Project No.: 10167963

Sample: SGP-3S:A082911 **Lab ID: 10167963006** Collected: 08/29/11 11:29 Received: 08/30/11 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	8.9	14.8		09/01/11 18:28	109-99-9	
Toluene	**839**	ug/m3	11.4	14.8		09/01/11 18:28	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	14.7	14.8		09/01/11 18:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	16.3	14.8		09/01/11 18:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	8.1	14.8		09/01/11 18:28	79-00-5	
Trichloroethene	ND	ug/m3	8.1	14.8		09/01/11 18:28	79-01-6	
Trichlorofluoromethane	ND	ug/m3	16.3	14.8		09/01/11 18:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	23.7	14.8		09/01/11 18:28	76-13-1	
1,2,4-Trimethylbenzene	**20.2**	ug/m3	14.8	14.8		09/01/11 18:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	14.8	14.8		09/01/11 18:28	108-67-8	
Vinyl acetate	ND	ug/m3	10.5	14.8		09/01/11 18:28	108-05-4	
Vinyl chloride	ND	ug/m3	3.8	14.8		09/01/11 18:28	75-01-4	
m&p-Xylene	**47.0**	ug/m3	26.0	14.8		09/01/11 18:28	179601-23-1	
o-Xylene	**14.5**	ug/m3	13.0	14.8		09/01/11 18:28	95-47-6	

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ANALYTICAL RESULTS

Project: SBI065
Pace Project No.: 10167963

Sample: SGP-3D:A082911 **Lab ID: 10167963007** Collected: 08/29/11 11:33 Received: 08/30/11 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**48.1**	ug/m3	0.74	1.54		08/31/11 21:31	67-64-1	
Benzene	**3.5**	ug/m3	0.50	1.54		08/31/11 21:31	71-43-2	
Benzyl chloride	ND	ug/m3	1.6	1.54		08/31/11 21:31	100-44-7	
Bromodichloromethane	ND	ug/m3	2.2	1.54		08/31/11 21:31	75-27-4	
Bromoform	ND	ug/m3	3.2	1.54		08/31/11 21:31	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.54		08/31/11 21:31	74-83-9	
1,3-Butadiene	ND	ug/m3	0.69	1.54		08/31/11 21:31	106-99-0	
2-Butanone (MEK)	**2.3**	ug/m3	0.92	1.54		08/31/11 21:31	78-93-3	
Carbon disulfide	**2.6**	ug/m3	0.97	1.54		08/31/11 21:31	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.99	1.54		08/31/11 21:31	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	1.54		08/31/11 21:31	108-90-7	
Chloroethane	ND	ug/m3	0.83	1.54		08/31/11 21:31	75-00-3	
Chloroform	ND	ug/m3	1.5	1.54		08/31/11 21:31	67-66-3	
Chloromethane	ND	ug/m3	0.65	1.54		08/31/11 21:31	74-87-3	
Cyclohexane	**3.1**	ug/m3	1.0	1.54		08/31/11 21:31	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	1.54		08/31/11 21:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.54		08/31/11 21:31	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	1.54		08/31/11 21:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	1.54		08/31/11 21:31	541-73-1	
1,4-Dichlorobenzene	**2.2**	ug/m3	1.8	1.54		08/31/11 21:31	106-46-7	
Dichlorodifluoromethane	**2.2**	ug/m3	1.5	1.54		08/31/11 21:31	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.54		08/31/11 21:31	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.63	1.54		08/31/11 21:31	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.54		08/31/11 21:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.54		08/31/11 21:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.54		08/31/11 21:31	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	1.54		08/31/11 21:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.54		08/31/11 21:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.54		08/31/11 21:31	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.2	1.54		08/31/11 21:31	76-14-2	
Ethanol	**7.2**	ug/m3	2.9	1.54		08/31/11 21:31	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	1.54		08/31/11 21:31	141-78-6	
Ethylbenzene	**23.4**	ug/m3	1.4	1.54		08/31/11 21:31	100-41-4	
4-Ethyltoluene	**19.4**	ug/m3	3.8	1.54		08/31/11 21:31	622-96-8	
n-Heptane	**6.4**	ug/m3	1.3	1.54		08/31/11 21:31	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.4	1.54		08/31/11 21:31	87-68-3	
n-Hexane	**9.3**	ug/m3	1.1	1.54		08/31/11 21:31	110-54-3	
2-Hexanone	ND	ug/m3	1.3	1.54		08/31/11 21:31	591-78-6	
Methylene Chloride	**2.5**	ug/m3	1.1	1.54		08/31/11 21:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.3	1.54		08/31/11 21:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.54		08/31/11 21:31	1634-04-4	
Naphthalene	ND	ug/m3	4.2	1.54		08/31/11 21:31	91-20-3	
2-Propanol	ND	ug/m3	3.8	1.54		08/31/11 21:31	67-63-0	
Propylene	ND	ug/m3	0.54	1.54		08/31/11 21:31	115-07-1	
Styrene	ND	ug/m3	1.3	1.54		08/31/11 21:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.1	1.54		08/31/11 21:31	79-34-5	
Tetrachloroethene	**1.8**	ug/m3	1.1	1.54		08/31/11 21:31	127-18-4	

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ANALYTICAL RESULTS

Project: SBI065
Pace Project No.: 10167963

Sample: SGP-3D:A082911 **Lab ID: 10167963007** Collected: 08/29/11 11:33 Received: 08/30/11 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	0.92	1.54		08/31/11 21:31	109-99-9	
Toluene	**185**	ug/m3	1.2	1.54		08/31/11 21:31	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.5	1.54		08/31/11 21:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.54		08/31/11 21:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.85	1.54		08/31/11 21:31	79-00-5	
Trichloroethene	ND	ug/m3	0.85	1.54		08/31/11 21:31	79-01-6	
Trichlorofluoromethane	**4.0**	ug/m3	1.7	1.54		08/31/11 21:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.5	1.54		08/31/11 21:31	76-13-1	
1,2,4-Trimethylbenzene	**27.6**	ug/m3	1.5	1.54		08/31/11 21:31	95-63-6	
1,3,5-Trimethylbenzene	**8.6**	ug/m3	1.5	1.54		08/31/11 21:31	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.54		08/31/11 21:31	108-05-4	
Vinyl chloride	ND	ug/m3	0.40	1.54		08/31/11 21:31	75-01-4	
m&p-Xylene	**81.8**	ug/m3	2.7	1.54		08/31/11 21:31	179601-23-1	
o-Xylene	**30.6**	ug/m3	1.4	1.54		08/31/11 21:31	95-47-6	

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ANALYTICAL RESULTS

Project: SBI065
Pace Project No.: 10167963

Sample: SGP-4S:A082911 **Lab ID: 10167963008** Collected: 08/29/11 11:44 Received: 08/30/11 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**78.3**	ug/m3	0.71	1.48		08/31/11 21:59	67-64-1	
Benzene	**3.2**	ug/m3	0.48	1.48		08/31/11 21:59	71-43-2	
Benzyl chloride	ND	ug/m3	1.6	1.48		08/31/11 21:59	100-44-7	
Bromodichloromethane	ND	ug/m3	2.1	1.48		08/31/11 21:59	75-27-4	
Bromoform	ND	ug/m3	3.1	1.48		08/31/11 21:59	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.48		08/31/11 21:59	74-83-9	
1,3-Butadiene	ND	ug/m3	0.67	1.48		08/31/11 21:59	106-99-0	
2-Butanone (MEK)	**5.8**	ug/m3	0.89	1.48		08/31/11 21:59	78-93-3	
Carbon disulfide	**3.8**	ug/m3	0.93	1.48		08/31/11 21:59	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.95	1.48		08/31/11 21:59	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	1.48		08/31/11 21:59	108-90-7	
Chloroethane	ND	ug/m3	0.80	1.48		08/31/11 21:59	75-00-3	
Chloroform	ND	ug/m3	1.5	1.48		08/31/11 21:59	67-66-3	
Chloromethane	ND	ug/m3	0.62	1.48		08/31/11 21:59	74-87-3	
Cyclohexane	**3.8**	ug/m3	1.0	1.48		08/31/11 21:59	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.48		08/31/11 21:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.4	1.48		08/31/11 21:59	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	1.48		08/31/11 21:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	1.48		08/31/11 21:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	1.48		08/31/11 21:59	106-46-7	
Dichlorodifluoromethane	**1.7**	ug/m3	1.5	1.48		08/31/11 21:59	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	1.48		08/31/11 21:59	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.61	1.48		08/31/11 21:59	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.48		08/31/11 21:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.48		08/31/11 21:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.48		08/31/11 21:59	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	1.48		08/31/11 21:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.48		08/31/11 21:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.48		08/31/11 21:59	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	1.48		08/31/11 21:59	76-14-2	
Ethanol	**11.1**	ug/m3	2.8	1.48		08/31/11 21:59	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	1.48		08/31/11 21:59	141-78-6	
Ethylbenzene	**9.6**	ug/m3	1.3	1.48		08/31/11 21:59	100-41-4	
4-Ethyltoluene	**5.9**	ug/m3	3.7	1.48		08/31/11 21:59	622-96-8	
n-Heptane	**4.1**	ug/m3	1.2	1.48		08/31/11 21:59	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.3	1.48		08/31/11 21:59	87-68-3	
n-Hexane	**16.8**	ug/m3	1.1	1.48		08/31/11 21:59	110-54-3	
2-Hexanone	ND	ug/m3	1.2	1.48		08/31/11 21:59	591-78-6	
Methylene Chloride	**4.8**	ug/m3	1.1	1.48		08/31/11 21:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.2	1.48		08/31/11 21:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.48		08/31/11 21:59	1634-04-4	
Naphthalene	ND	ug/m3	4.0	1.48		08/31/11 21:59	91-20-3	
2-Propanol	ND	ug/m3	3.7	1.48		08/31/11 21:59	67-63-0	
Propylene	ND	ug/m3	0.52	1.48		08/31/11 21:59	115-07-1	
Styrene	**1.9**	ug/m3	1.3	1.48		08/31/11 21:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	1.48		08/31/11 21:59	79-34-5	
Tetrachloroethene	**15.6**	ug/m3	1.0	1.48		08/31/11 21:59	127-18-4	

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ANALYTICAL RESULTS

Project: SBI065
Pace Project No.: 10167963

Sample: SGP-4S:A082911 **Lab ID: 10167963008** Collected: 08/29/11 11:44 Received: 08/30/11 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	0.89	1.48		08/31/11 21:59	109-99-9	
Toluene	**1100**	ug/m3	11.4	14.8		09/01/11 16:03	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.5	1.48		08/31/11 21:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.48		08/31/11 21:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.81	1.48		08/31/11 21:59	79-00-5	
Trichloroethene	ND	ug/m3	0.81	1.48		08/31/11 21:59	79-01-6	
Trichlorofluoromethane	**728**	ug/m3	16.3	14.8		09/01/11 16:03	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	1.48		08/31/11 21:59	76-13-1	
1,2,4-Trimethylbenzene	**8.3**	ug/m3	1.5	1.48		08/31/11 21:59	95-63-6	
1,3,5-Trimethylbenzene	**2.8**	ug/m3	1.5	1.48		08/31/11 21:59	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.48		08/31/11 21:59	108-05-4	
Vinyl chloride	ND	ug/m3	0.38	1.48		08/31/11 21:59	75-01-4	
m&p-Xylene	**32.2**	ug/m3	2.6	1.48		08/31/11 21:59	179601-23-1	
o-Xylene	**11.6**	ug/m3	1.3	1.48		08/31/11 21:59	95-47-6	

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ANALYTICAL RESULTS

Project: SBI065
Pace Project No.: 10167963

Sample: SGP-4D:A082911 **Lab ID: 10167963009** Collected: 08/29/11 11:40 Received: 08/30/11 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**84.3**	ug/m3	0.71	1.48		08/31/11 22:28	67-64-1	
Benzene	**28.3**	ug/m3	0.48	1.48		08/31/11 22:28	71-43-2	
Benzyl chloride	ND	ug/m3	1.6	1.48		08/31/11 22:28	100-44-7	
Bromodichloromethane	ND	ug/m3	2.1	1.48		08/31/11 22:28	75-27-4	
Bromoform	ND	ug/m3	3.1	1.48		08/31/11 22:28	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.48		08/31/11 22:28	74-83-9	
1,3-Butadiene	ND	ug/m3	0.67	1.48		08/31/11 22:28	106-99-0	
2-Butanone (MEK)	**6.9**	ug/m3	0.89	1.48		08/31/11 22:28	78-93-3	
Carbon disulfide	**2.4**	ug/m3	0.93	1.48		08/31/11 22:28	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.95	1.48		08/31/11 22:28	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	1.48		08/31/11 22:28	108-90-7	
Chloroethane	ND	ug/m3	0.80	1.48		08/31/11 22:28	75-00-3	
Chloroform	ND	ug/m3	1.5	1.48		08/31/11 22:28	67-66-3	
Chloromethane	ND	ug/m3	0.62	1.48		08/31/11 22:28	74-87-3	
Cyclohexane	**9.1**	ug/m3	1.0	1.48		08/31/11 22:28	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.48		08/31/11 22:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.4	1.48		08/31/11 22:28	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	1.48		08/31/11 22:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	1.48		08/31/11 22:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	1.48		08/31/11 22:28	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.5	1.48		08/31/11 22:28	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	1.48		08/31/11 22:28	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.61	1.48		08/31/11 22:28	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.48		08/31/11 22:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.48		08/31/11 22:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.48		08/31/11 22:28	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	1.48		08/31/11 22:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.48		08/31/11 22:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.48		08/31/11 22:28	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	1.48		08/31/11 22:28	76-14-2	
Ethanol	**60.5**	ug/m3	2.8	1.48		08/31/11 22:28	64-17-5	
Ethyl acetate	ND	ug/m3	1.1	1.48		08/31/11 22:28	141-78-6	
Ethylbenzene	**20.4**	ug/m3	1.3	1.48		08/31/11 22:28	100-41-4	
4-Ethyltoluene	**6.7**	ug/m3	3.7	1.48		08/31/11 22:28	622-96-8	
n-Heptane	**25.5**	ug/m3	1.2	1.48		08/31/11 22:28	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.3	1.48		08/31/11 22:28	87-68-3	
n-Hexane	**28.4**	ug/m3	1.1	1.48		08/31/11 22:28	110-54-3	
2-Hexanone	ND	ug/m3	1.2	1.48		08/31/11 22:28	591-78-6	
Methylene Chloride	**1.2**	ug/m3	1.1	1.48		08/31/11 22:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.7**	ug/m3	1.2	1.48		08/31/11 22:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.1	1.48		08/31/11 22:28	1634-04-4	
Naphthalene	ND	ug/m3	4.0	1.48		08/31/11 22:28	91-20-3	
2-Propanol	**11.6**	ug/m3	3.7	1.48		08/31/11 22:28	67-63-0	
Propylene	ND	ug/m3	0.52	1.48		08/31/11 22:28	115-07-1	
Styrene	**5.9**	ug/m3	1.3	1.48		08/31/11 22:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	1.48		08/31/11 22:28	79-34-5	
Tetrachloroethene	**31.9**	ug/m3	1.0	1.48		08/31/11 22:28	127-18-4	

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ANALYTICAL RESULTS

Project: SBI065
Pace Project No.: 10167963

Sample: SGP-4D:A082911 **Lab ID: 10167963009** Collected: 08/29/11 11:40 Received: 08/30/11 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	0.89	1.48		08/31/11 22:28	109-99-9	
Toluene	**757**	ug/m3	11.4	14.8		09/02/11 07:36	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.5	1.48		08/31/11 22:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.48		08/31/11 22:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.81	1.48		08/31/11 22:28	79-00-5	
Trichloroethene	**0.87**	ug/m3	0.81	1.48		08/31/11 22:28	79-01-6	
Trichlorofluoromethane	**183**	ug/m3	1.6	1.48		08/31/11 22:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	1.48		08/31/11 22:28	76-13-1	
1,2,4-Trimethylbenzene	**6.9**	ug/m3	1.5	1.48		08/31/11 22:28	95-63-6	
1,3,5-Trimethylbenzene	**2.8**	ug/m3	1.5	1.48		08/31/11 22:28	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	1.48		08/31/11 22:28	108-05-4	
Vinyl chloride	ND	ug/m3	0.38	1.48		08/31/11 22:28	75-01-4	
m&p-Xylene	**52.0**	ug/m3	2.6	1.48		08/31/11 22:28	179601-23-1	
o-Xylene	**16.1**	ug/m3	1.3	1.48		08/31/11 22:28	95-47-6	

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QUALITY CONTROL DATA

Project: SBI065
Pace Project No.: 10167963

QC Batch: AIR/13039 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10167963001, 10167963002, 10167963004, 10167963005, 10167963007, 10167963008, 10167963009

METHOD BLANK: 1045354 Matrix: Air
Associated Lab Samples: 10167963001, 10167963002, 10167963004, 10167963005, 10167963007, 10167963008, 10167963009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	08/31/11 12:59	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	08/31/11 12:59	
1,1,2-Trichloroethane	ug/m3	ND	0.55	08/31/11 12:59	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	08/31/11 12:59	
1,1-Dichloroethane	ug/m3	ND	0.82	08/31/11 12:59	
1,1-Dichloroethene	ug/m3	ND	0.81	08/31/11 12:59	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	08/31/11 12:59	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	08/31/11 12:59	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	08/31/11 12:59	
1,2-Dichlorobenzene	ug/m3	ND	1.2	08/31/11 12:59	
1,2-Dichloroethane	ug/m3	ND	0.41	08/31/11 12:59	
1,2-Dichloropropane	ug/m3	ND	0.94	08/31/11 12:59	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	08/31/11 12:59	
1,3-Butadiene	ug/m3	ND	0.45	08/31/11 12:59	
1,3-Dichlorobenzene	ug/m3	ND	1.2	08/31/11 12:59	
1,4-Dichlorobenzene	ug/m3	ND	1.2	08/31/11 12:59	
2-Butanone (MEK)	ug/m3	ND	0.60	08/31/11 12:59	
2-Hexanone	ug/m3	ND	0.83	08/31/11 12:59	
2-Propanol	ug/m3	ND	2.5	08/31/11 12:59	
4-Ethyltoluene	ug/m3	ND	2.5	08/31/11 12:59	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	08/31/11 12:59	
Acetone	ug/m3	ND	0.48	08/31/11 12:59	
Benzene	ug/m3	ND	0.32	08/31/11 12:59	
Benzyl chloride	ug/m3	ND	1.0	08/31/11 12:59	
Bromodichloromethane	ug/m3	ND	1.4	08/31/11 12:59	
Bromoform	ug/m3	ND	2.1	08/31/11 12:59	
Bromomethane	ug/m3	ND	0.79	08/31/11 12:59	
Carbon disulfide	ug/m3	ND	0.63	08/31/11 12:59	
Carbon tetrachloride	ug/m3	ND	0.64	08/31/11 12:59	
Chlorobenzene	ug/m3	ND	0.94	08/31/11 12:59	
Chloroethane	ug/m3	ND	0.54	08/31/11 12:59	
Chloroform	ug/m3	ND	0.99	08/31/11 12:59	
Chloromethane	ug/m3	ND	0.42	08/31/11 12:59	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	08/31/11 12:59	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	08/31/11 12:59	
Cyclohexane	ug/m3	ND	0.68	08/31/11 12:59	
Dibromochloromethane	ug/m3	ND	1.7	08/31/11 12:59	
Dichlorodifluoromethane	ug/m3	ND	1.0	08/31/11 12:59	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	08/31/11 12:59	
Ethanol	ug/m3	ND	1.9	08/31/11 12:59	
Ethyl acetate	ug/m3	ND	0.73	08/31/11 12:59	
Ethylbenzene	ug/m3	ND	0.88	08/31/11 12:59	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	08/31/11 12:59	

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QUALITY CONTROL DATA

Project: SBI065
Pace Project No.: 10167963

METHOD BLANK: 1045354 Matrix: Air

Associated Lab Samples: 10167963001, 10167963002, 10167963004, 10167963005, 10167963007, 10167963008, 10167963009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	08/31/11 12:59	
Methyl-tert-butyl ether	ug/m3	ND	0.73	08/31/11 12:59	
Methylene Chloride	ug/m3	ND	0.71	08/31/11 12:59	
n-Heptane	ug/m3	ND	0.83	08/31/11 12:59	
n-Hexane	ug/m3	ND	0.72	08/31/11 12:59	
Naphthalene	ug/m3	ND	2.7	08/31/11 12:59	
o-Xylene	ug/m3	ND	0.88	08/31/11 12:59	
Propylene	ug/m3	ND	0.35	08/31/11 12:59	
Styrene	ug/m3	ND	0.87	08/31/11 12:59	
Tetrachloroethene	ug/m3	ND	0.69	08/31/11 12:59	
Tetrahydrofuran	ug/m3	ND	0.60	08/31/11 12:59	
Toluene	ug/m3	ND	0.77	08/31/11 12:59	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	08/31/11 12:59	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	08/31/11 12:59	
Trichloroethene	ug/m3	ND	0.55	08/31/11 12:59	
Trichlorofluoromethane	ug/m3	ND	1.1	08/31/11 12:59	
Vinyl acetate	ug/m3	ND	0.71	08/31/11 12:59	
Vinyl chloride	ug/m3	ND	0.26	08/31/11 12:59	

LABORATORY CONTROL SAMPLE: 1045355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	47.3	85	66-133	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	57.9	83	70-140	
1,1,2-Trichloroethane	ug/m3	55.5	46.5	84	68-132	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	61.9	79	60-137	
1,1-Dichloroethane	ug/m3	41.2	34.3	83	65-131	
1,1-Dichloroethene	ug/m3	40.3	33.4	83	65-132	
1,2,4-Trichlorobenzene	ug/m3	75.5	73.6	98	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	39.8	80	69-140	
1,2-Dibromoethane (EDB)	ug/m3	78.1	65.5	84	71-139	
1,2-Dichlorobenzene	ug/m3	61.2	54.8	90	68-139	
1,2-Dichloroethane	ug/m3	41.2	33.9	82	66-132	
1,2-Dichloropropane	ug/m3	47	41.3	88	69-130	
1,3,5-Trimethylbenzene	ug/m3	50	39.1	78	70-141	
1,3-Butadiene	ug/m3	22.5	19.2	85	68-128	
1,3-Dichlorobenzene	ug/m3	61.2	54.9	90	66-146	
1,4-Dichlorobenzene	ug/m3	61.2	51.8	85	66-142	
2-Butanone (MEK)	ug/m3	30	25.4	85	68-134	
2-Hexanone	ug/m3	41.7	40.3	97	70-144	
2-Propanol	ug/m3	23.8	21.6	91	66-139	
4-Ethyltoluene	ug/m3	50	46.3	93	65-145	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	43.1	104	70-139	
Acetone	ug/m3	24.2	22.2	92	56-142	
Benzene	ug/m3	32.5	29.1	89	69-129	

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QUALITY CONTROL DATA

Project: SBI065
Pace Project No.: 10167963

LABORATORY CONTROL SAMPLE: 1045355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	43.9	84	68-138	
Bromodichloromethane	ug/m3	68.2	57.9	85	70-130	
Bromoform	ug/m3	105	90.3	86	67-147	
Bromomethane	ug/m3	39.5	30.8	78	67-127	
Carbon disulfide	ug/m3	31.7	24.9	79	65-131	
Carbon tetrachloride	ug/m3	64	52.5	82	62-137	
Chlorobenzene	ug/m3	46.8	38.1	81	72-133	
Chloroethane	ug/m3	26.8	21.7	81	66-127	
Chloroform	ug/m3	49.7	39.6	80	67-130	
Chloromethane	ug/m3	21	16.5	79	63-127	
cis-1,2-Dichloroethene	ug/m3	40.3	34.7	86	69-130	
cis-1,3-Dichloropropene	ug/m3	46.2	45.3	98	74-137	
Cyclohexane	ug/m3	35	28.3	81	69-137	
Dibromochloromethane	ug/m3	86.6	76.3	88	69-140	
Dichlorodifluoromethane	ug/m3	50.3	38.8	77	62-131	
Dichlorotetrafluoroethane	ug/m3	71.1	58.2	82	63-130	
Ethanol	ug/m3	19.2	13.9	73	63-135	
Ethyl acetate	ug/m3	36.6	33.7	92	70-135	
Ethylbenzene	ug/m3	44.2	42.3	96	71-141	
Hexachloro-1,3-butadiene	ug/m3	108	92.2	85	30-150	
m&p-Xylene	ug/m3	88.3	71.3	81	68-144	
Methyl-tert-butyl ether	ug/m3	36.7	34.4	94	54-136	
Methylene Chloride	ug/m3	35.3	31.6	89	56-143	
n-Heptane	ug/m3	41.7	37.0	89	72-130	
n-Hexane	ug/m3	35.8	26.1	73	68-130	
Naphthalene	ug/m3	53.3	51.6	97	30-150	
o-Xylene	ug/m3	44.2	41.3	93	70-141	
Propylene	ug/m3	17.5	14.6	83	61-139	
Styrene	ug/m3	43.3	40.6	94	68-145	
Tetrachloroethene	ug/m3	69	54.1	78	64-142	
Tetrahydrofuran	ug/m3	30	25.0	83	70-134	SS
Toluene	ug/m3	38.3	32.7	85	69-133	
trans-1,2-Dichloroethene	ug/m3	40.3	33.8	84	64-132	
trans-1,3-Dichloropropene	ug/m3	46.2	41.4	90	71-140	
Trichloroethene	ug/m3	54.6	44.0	81	68-132	
Trichlorofluoromethane	ug/m3	57.1	44.4	78	59-136	
Vinyl acetate	ug/m3	35.8	33.3	93	70-142	
Vinyl chloride	ug/m3	26	20.7	80	64-129	

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QUALITY CONTROL DATA

Project: SBI065
Pace Project No.: 10167963

QC Batch: AIR/13050 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10167963003, 10167963006

METHOD BLANK: 1046279 Matrix: Air
Associated Lab Samples: 10167963003, 10167963006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	09/01/11 15:34	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	09/01/11 15:34	
1,1,2-Trichloroethane	ug/m3	ND	0.55	09/01/11 15:34	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	09/01/11 15:34	
1,1-Dichloroethane	ug/m3	ND	0.82	09/01/11 15:34	
1,1-Dichloroethene	ug/m3	ND	0.81	09/01/11 15:34	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	09/01/11 15:34	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	09/01/11 15:34	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	09/01/11 15:34	
1,2-Dichlorobenzene	ug/m3	ND	1.2	09/01/11 15:34	
1,2-Dichloroethane	ug/m3	ND	0.41	09/01/11 15:34	
1,2-Dichloropropane	ug/m3	ND	0.94	09/01/11 15:34	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	09/01/11 15:34	
1,3-Butadiene	ug/m3	ND	0.45	09/01/11 15:34	
1,3-Dichlorobenzene	ug/m3	ND	1.2	09/01/11 15:34	
1,4-Dichlorobenzene	ug/m3	ND	1.2	09/01/11 15:34	
2-Butanone (MEK)	ug/m3	ND	0.60	09/01/11 15:34	
2-Hexanone	ug/m3	ND	0.83	09/01/11 15:34	
2-Propanol	ug/m3	ND	2.5	09/01/11 15:34	
4-Ethyltoluene	ug/m3	ND	2.5	09/01/11 15:34	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	09/01/11 15:34	
Acetone	ug/m3	ND	0.48	09/01/11 15:34	
Benzene	ug/m3	ND	0.32	09/01/11 15:34	
Benzyl chloride	ug/m3	ND	1.0	09/01/11 15:34	
Bromodichloromethane	ug/m3	ND	1.4	09/01/11 15:34	
Bromoform	ug/m3	ND	2.1	09/01/11 15:34	
Bromomethane	ug/m3	ND	0.79	09/01/11 15:34	
Carbon disulfide	ug/m3	ND	0.63	09/01/11 15:34	
Carbon tetrachloride	ug/m3	ND	0.64	09/01/11 15:34	
Chlorobenzene	ug/m3	ND	0.94	09/01/11 15:34	
Chloroethane	ug/m3	ND	0.54	09/01/11 15:34	
Chloroform	ug/m3	ND	0.99	09/01/11 15:34	
Chloromethane	ug/m3	ND	0.42	09/01/11 15:34	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	09/01/11 15:34	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	09/01/11 15:34	
Cyclohexane	ug/m3	ND	0.68	09/01/11 15:34	
Dibromochloromethane	ug/m3	ND	1.7	09/01/11 15:34	
Dichlorodifluoromethane	ug/m3	ND	1.0	09/01/11 15:34	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	09/01/11 15:34	
Ethanol	ug/m3	ND	1.9	09/01/11 15:34	
Ethyl acetate	ug/m3	ND	0.73	09/01/11 15:34	
Ethylbenzene	ug/m3	ND	0.88	09/01/11 15:34	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	09/01/11 15:34	

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(612)607-1700

QUALITY CONTROL DATA

Project: SBI065
Pace Project No.: 10167963

METHOD BLANK: 1046279 Matrix: Air

Associated Lab Samples: 10167963003, 10167963006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	09/01/11 15:34	
Methyl-tert-butyl ether	ug/m3	ND	0.73	09/01/11 15:34	
Methylene Chloride	ug/m3	ND	0.71	09/01/11 15:34	
n-Heptane	ug/m3	ND	0.83	09/01/11 15:34	
n-Hexane	ug/m3	ND	0.72	09/01/11 15:34	
Naphthalene	ug/m3	ND	2.7	09/01/11 15:34	
o-Xylene	ug/m3	ND	0.88	09/01/11 15:34	
Propylene	ug/m3	ND	0.35	09/01/11 15:34	
Styrene	ug/m3	ND	0.87	09/01/11 15:34	
Tetrachloroethene	ug/m3	ND	0.69	09/01/11 15:34	
Tetrahydrofuran	ug/m3	ND	0.60	09/01/11 15:34	
Toluene	ug/m3	ND	0.77	09/01/11 15:34	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	09/01/11 15:34	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	09/01/11 15:34	
Trichloroethene	ug/m3	ND	0.55	09/01/11 15:34	
Trichlorofluoromethane	ug/m3	ND	1.1	09/01/11 15:34	
Vinyl acetate	ug/m3	ND	0.71	09/01/11 15:34	
Vinyl chloride	ug/m3	ND	0.26	09/01/11 15:34	

LABORATORY CONTROL SAMPLE: 1046280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	49.4	89	66-133	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	61.6	88	70-140	
1,1,2-Trichloroethane	ug/m3	55.5	48.4	87	68-132	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	64.6	83	60-137	
1,1-Dichloroethane	ug/m3	41.2	36.2	88	65-131	
1,1-Dichloroethene	ug/m3	40.3	34.4	85	65-132	
1,2,4-Trichlorobenzene	ug/m3	75.5	78.3	104	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	41.5	83	69-140	
1,2-Dibromoethane (EDB)	ug/m3	78.1	70.5	90	71-139	
1,2-Dichlorobenzene	ug/m3	61.2	57.3	94	68-139	
1,2-Dichloroethane	ug/m3	41.2	33.8	82	66-132	
1,2-Dichloropropane	ug/m3	47	44.5	95	69-130	
1,3,5-Trimethylbenzene	ug/m3	50	41.5	83	70-141	
1,3-Butadiene	ug/m3	22.5	21.4	95	68-128	
1,3-Dichlorobenzene	ug/m3	61.2	57.5	94	66-146	
1,4-Dichlorobenzene	ug/m3	61.2	54.9	90	66-142	
2-Butanone (MEK)	ug/m3	30	26.7	89	68-134	
2-Hexanone	ug/m3	41.7	43.7	105	70-144	
2-Propanol	ug/m3	23.8	23.6	99	66-139	
4-Ethyltoluene	ug/m3	50	50.3	101	65-145	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	45.2	108	70-139	
Acetone	ug/m3	24.2	22.8	94	56-142	
Benzene	ug/m3	32.5	30.8	95	69-129	

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QUALITY CONTROL DATA

Project: SBI065
Pace Project No.: 10167963

LABORATORY CONTROL SAMPLE: 1046280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	46.5	89	68-138	
Bromodichloromethane	ug/m3	68.2	58.4	86	70-130	
Bromoform	ug/m3	105	95.2	91	67-147	
Bromomethane	ug/m3	39.5	33.8	86	67-127	
Carbon disulfide	ug/m3	31.7	26.4	83	65-131	
Carbon tetrachloride	ug/m3	64	52.5	82	62-137	
Chlorobenzene	ug/m3	46.8	42.3	90	72-133	
Chloroethane	ug/m3	26.8	23.9	89	66-127	
Chloroform	ug/m3	49.7	40.3	81	67-130	
Chloromethane	ug/m3	21	17.3	82	63-127	
cis-1,2-Dichloroethene	ug/m3	40.3	37.7	93	69-130	
cis-1,3-Dichloropropene	ug/m3	46.2	47.2	102	74-137	
Cyclohexane	ug/m3	35	31.0	89	69-137	
Dibromochloromethane	ug/m3	86.6	81.7	94	69-140	
Dichlorodifluoromethane	ug/m3	50.3	38.8	77	62-131	
Dichlorotetrafluoroethane	ug/m3	71.1	50.9	72	63-130	
Ethanol	ug/m3	19.2	15.0	78	63-135	
Ethyl acetate	ug/m3	36.6	36.4	99	70-135	
Ethylbenzene	ug/m3	44.2	45.5	103	71-141	
Hexachloro-1,3-butadiene	ug/m3	108	101	93	30-150	
m&p-Xylene	ug/m3	88.3	77.3	88	68-144	
Methyl-tert-butyl ether	ug/m3	36.7	44.1	120	54-136	
Methylene Chloride	ug/m3	35.3	34.4	97	56-143	
n-Heptane	ug/m3	41.7	41.1	99	72-130	
n-Hexane	ug/m3	35.8	28.5	79	68-130	
Naphthalene	ug/m3	53.3	54.7	103	30-150	
o-Xylene	ug/m3	44.2	44.4	101	70-141	
Propylene	ug/m3	17.5	17.5	100	61-139	
Styrene	ug/m3	43.3	43.8	101	68-145	
Tetrachloroethene	ug/m3	69	59.9	87	64-142	
Tetrahydrofuran	ug/m3	30	29.1	97	70-134	SS
Toluene	ug/m3	38.3	34.1	89	69-133	
trans-1,2-Dichloroethene	ug/m3	40.3	36.7	91	64-132	
trans-1,3-Dichloropropene	ug/m3	46.2	42.8	93	71-140	
Trichloroethene	ug/m3	54.6	47.9	88	68-132	
Trichlorofluoromethane	ug/m3	57.1	44.7	78	59-136	
Vinyl acetate	ug/m3	35.8	36.2	101	70-142	
Vinyl chloride	ug/m3	26	23.0	88	64-129	

SAMPLE DUPLICATE: 1047256

Parameter	Units	10167963003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
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(612)607-1700

QUALITY CONTROL DATA

Project: SBI065
Pace Project No.: 10167963

SAMPLE DUPLICATE: 1047256

Parameter	Units	10167963003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	32.1	33.0	3	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	14.1J		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	ND		25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	ND	ND		25	
4-Ethyltoluene	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	24.6	25.3	3	25	
Benzene	ug/m3	ND	ND		25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	ND	ND		25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	31.6	32.9	4	25	
Ethyl acetate	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	ND	13.1		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	47.4	50.8	7	25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	18.1	22.3	21	25	
n-Heptane	ug/m3	ND	ND		25	
n-Hexane	ug/m3	11.9	13.3	11	25	
Naphthalene	ug/m3	87.8	92.6	5	25	
o-Xylene	ug/m3	16.4	17.1	4	25	
Propylene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	2920	3070	5	25	

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QUALITY CONTROL DATA

Project: SBI065
Pace Project No.: 10167963

SAMPLE DUPLICATE: 1047256

Parameter	Units	10167963003 Result	Dup Result	RPD	Max RPD	Qualifiers
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	355	380	7	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	ND	ND		25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALIFIERS

Project: SBI065
Pace Project No.: 10167963

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SBI065
Pace Project No.: 10167963

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10167963001	**SGP-1S:A082911**	TO-15	AIR/13039		
10167963002	**SGP-1D:A082911**	TO-15	AIR/13039		
10167963003	**SGP-2S:A082911**	TO-15	AIR/13050		
10167963004	**SGP-2D:A082911**	TO-15	AIR/13039		
10167963005	**FD1-A082911**	TO-15	AIR/13039		
10167963006	**SGP-3S:A082911**	TO-15	AIR/13050		
10167963007	**SGP-3D:A082911**	TO-15	AIR/13039		
10167963008	**SGP-4S:A082911**	TO-15	AIR/13039		
10167963009	**SGP-4D:A082911**	TO-15	AIR/13039		

Pace Analytical®
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10167963

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

05527

Page: 1 of 1

Section A Required Client Information:

Company: Hull & Associates
Address: 6435 Castleway W. Dr. #119 Indpls. IN 46250
Email To: dstuart@hullinc.com
Phone: 8002417123 Fax:
Requested Due Date/TAT: SEE COMMENTS

Section B Required Project Information:

Report To: Doug Stuart
Copy To:
Purchase Order No.:
Project Name:
Project Number: SBJ065

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State:

Reporting Units: ug/m³ mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C: Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	SGP-1S: A082911	6LC	0.0	8/29/11	1025	8/29/11	1056	28.5	2.0	1257	0283							X			001
2	SGP-1D: A082911	6LC	0.0	8/29/11	1027	8/29/11	1114	30.0	3.0	0843	0247							X			002
3	SGP-2S: A082911	6LC	0.0	8/29/11	1043	8/29/11	1118	28.0	0.5	1620	0197							X			003
4	SGP-2D: A082911	6LC	0.0	8/29/11	1044	8/29/11	1118	28.5	2.0	1751	0172							X			004
5	FD1-A082911	6LC	0.0	8/29/11	1059	8/29/11	1130	26.5	2.0	1491	0178							X			005
6	SGP-3S: A082911	6LC	0.0	8/29/11	1101	8/29/11	1129	28.0	2.0	1727	0192							X			006
7	SGP-3D: A082911	6LC	0.0	8/29/11	1102	8/29/11	1133	27.0	2.0	1549	0171							X			007
8	SGP-4S: A082911	6LC	0.0	8/29/11	1105	8/29/11	1144	26.0	2.5	1193	0198							X			008
9	SGP-4D: A082911	6LC	0.0	8/29/11	1106	8/29/11	1140	29.0	2.0	1764	0422							X			009
10																					
11																					
12																					

Comments:

* REPORT RESULTS WITHIN 6 BUSINESS DAYS. *

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
RyM / Hull	8/29/11		[signature] / TLC	83011	0915

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
[signature]	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: RYAN FRANCE

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 08/29/11

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical

AIR Sample Condition Upon Receipt

Client Name: Hull & associates Project # 10167563

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other ____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other ____

Tracking #: J231304 7671, J231304 7706, J231304 7715

Optional
Proj. Due Date:
Proj. Name:

Comments:

Date and Initials of person examining contents: 8/3011

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7. 6 days
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Media: air can		11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.

Samples Received:

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
SGP-1S	1257		0203				
SGP-1D	0843		0247				
SGP-2S	1625		0197				
SGP-2D	1751		0172				
FD1	1491		0178				
SGP-3S	1727		0192				
SGP-3D	1549		0171				
SGP-4S	1193		0198				
SGP-4D	1764		0422				

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: ____ Date/Time: ____

Comments/ Resolution: ____

Project Manager Review: CMH **Date:** 8/30/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

A106 Rev.01 (22May2009)