



Attention: Mr. Nicholas Mullins
Development Analyst

Reference: **Limited Phase II Environmental Site Assessment and Preliminary Geotechnical Evaluation**
300 and 314 North College Street
Charlotte, Mecklenburg County, North Carolina
S&ME Project No. 4335-14-152

Dear Mr. Mullins:

S&ME, Inc. (S&ME) submit this Limited Phase II Environmental Site Assessment and Preliminary Geotechnical Evaluation for the above-referenced property in accordance with S&ME Proposal No. 43-14-00361 dated April 16, 2014 and authorized on June 26, 2014. This was also conducted in accordance with Change to Agreement for Services, dated July 9, 2014 for the disposal of the drummed soils, which was authorized on July 10, 2014. Additionally, in accordance with an email dated August 13, 2014, preliminary geotechnical evaluation data and information collected during the Limited Phase II Environmental Site Assessment field activities are included in this report.

BACKGROUND

S&ME previously conducted a Phase I Environmental Site Assessment (Phase I ESA) for an approximate 0.93-acre property (Mecklenburg Parcel No. 08002402) located at 300 and 314 North College Street in Charlotte, Mecklenburg County, North Carolina (S&ME Project No. 1335-14-028). The location of the site is indicated on **Figure 1** and an aerial of the site and surrounding area are indicated on **Figure 2**. The Phase I ESA Report, dated March 24, 2014, identified the following *recognized environmental conditions* in connection with the Property:

- Historical uses of the subject site, over an approximately 70-year period, indicate

- The Hearst Tower/200 N. Tryon Street sites currently occupy the block west of the intersection of E. 6th Street and N. College Street and west and presumed upgradient of the subject site. Historical operations may have stored and/or used hazardous materials or petroleum products. Regulatory records have documented the presence of petroleum contamination and chlorinated solvents in the groundwater beneath the 200 N. Tryon Street site and low levels of petroleum in the groundwater (below the regulatory standards) at the Hearst Tower site. Based on the combination of historical operations, available regulatory data, and groundwater flow direction this site presents an actual threat of a release(s) to the Property.
- Historical operations at the location of the current Charlotte City Center – Holiday Inn (hotel and parking garage), located across E. 6th Street, including an historical gasoline/service station, auto supplies, and motor repair. Based on the anticipated groundwater flow direction, presence of preferential pathways (i.e. subsurface utility lines) to facilitate potential vapor migration, and historical site use, the historical operations at this site presents an actual threat of a release(s) to the Property.

Based on the discussions and correspondences between Mr. Nicholas Mullins of Tivoli Properties, Inc. (Tivoli) and Ms. Julie Bennett-Hudel of S&ME on Friday, April 11 and Monday, April 14, 2014, we understand that there is a potential real estate transaction involving the site property and S&ME was contracted to perform a Limited Phase II Environmental Site Assessment (Limited Phase II ESA) to further assess these *RECs*. Additionally, during the Limited Phase II ESA activities, Preliminary Geotechnical data was also collected, where available. The following sections summarize the activities conducted, results obtained, and present our conclusions and recommendations, based on the Limited Phase II ESA and Preliminary Geotechnical findings.

SCOPE OF SERVICES

Due to the limited accessibility of the site (i.e., most of the site is covered with existing building that are currently occupied by retail businesses), the Phase II ESA and Preliminary Geotechnical activities were limited in scope. The Phase II ESA activities generally consisted of the conducting two borings along the southeastern property line along the access drive for collection of groundwater samples, and the installation of five probes inside the buildings for the collection of sub-slab soil vapor samples. The two groundwater samples were collected from temporary monitor wells installed in the two borings. Additionally, during the advancement of the soil borings, field data was collected of the soils for environmental and preliminary geotechnical purposes. The borings were conducted in the alley (owned by the site owner) that is located between the site buildings and the 7th Street Parking Garage (**Figure 3**).

Environmental Activities

Prior to conducting the soil borings and temporary monitor well installations, S&ME coordinated site access with the current Property owner, and contacted public and private utility locators to evaluate the proposed soil/groundwater sample locations. S&ME also acquired a Subsurface Investigation Permit (SIP, # 70002161) from the Mecklenburg County Health Department (Mecklenburg County). After well installation, the wells were registered with Mecklenburg County, and after well abandonment, their status was updated with Mecklenburg County. The soil borings, well installation, and abandonments were conducted by a North Carolina certified driller. A copy of the SIP, Well Registration, and Abandonment Documents are included in **Appendix I**. Copies of Soil Boring Logs, Well Construction Records, and Well Abandonment Records are included in **Appendix II**.

Soil Borings, Temporary Monitor Well Installation and Groundwater Sampling

In order to further assess the site for evidence of potential groundwater impacts resulting from the *recognized environmental conditions*, S&ME conducted two borings in the alleyway (owned by the current Property owner) located between site buildings and the 7th Street Parking Garage. On July 14, 2014, the borings were advanced using a drilling rig equipped with hollow-stem augers, to the depth of refusal in order to collect preliminary geotechnical data (presented below). During advancement, soil samples were collected at approximately 5-foot depth intervals from ground surface until refusal. The collected soils were described for environmental purposes (evaluating for apparent evidence of impacts such as staining, chemical odors, and for the collection of relative organic vapor measurements using a photoionization detector (PID)). Since none of the soils collected contained apparent evidence of impacts, based on field evaluations, no soil samples were submitted for laboratory analysis.

After encountering refusal, the borings were converted into temporary monitor wells (TW-1 and TW-2) by installing 2-inch PVC from the base of the boring to the ground surface. The wells were constructed with the well screen material extended from the base of the borings to above the anticipated groundwater surface. Refusal was encountered at a depth of 36.5 feet below ground surface (ft-bgs) in the boring for TW-1, and refusal was encountered at a depth of 27.5 ft-bgs in the boring for TW-2. Groundwater at the time of drilling was encountered at approximate depths of 13.5 ft-bgs in TW-1 and 14 ft-bgs in TW-2. The approximate location of the temporary monitor wells are indicated on the Sample Location Map (**Figure 3**). Well construction and water level data at the time of installation are provided in **Table 1**.

Groundwater Sample Collection and Results

After installation of the temporary monitor wells, groundwater samples were collected from each well and submitted for laboratory analysis of volatile organic compounds

(VOCs) using EPA Method 8260, semi-volatile organic compounds (SVOCs) using EPA Method 625 (full list), and total RCRA metals using Standard Methods 6010/7470. The groundwater samples were submitted to Pace Analytical Services, Inc. (Pace), a North Carolina certified laboratory, located in Huntersville, North Carolina.

Results of the laboratory analysis identified no target VOCs or SVOCs in either sample at concentrations above their respective laboratory reporting limits. Several metals were detected in the samples with concentrations of chromium and lead in both samples, barium in sample TW-1, and arsenic in sample TW-2, detected at concentrations above their respective 15A NCAC 2L Groundwater Standard (2L Standard). A summary of the laboratory results are provided in **Table 2** and a copy of the laboratory report and chain of custody record are provided in **Appendix III**.

Since the groundwater samples were collected from temporary wells, it is possible that the metals detected in the groundwater samples were due to sediment (silt and clays) from the surrounding soils collected with the samples and the leaching of the natural occurring metals from the sediment upon interaction with the acid preservative in the sample containers. Although the wells were developed by pumping several gallons prior to sampling, the groundwater samples collected for laboratory analysis were still relatively turbid. Due to the limited volume of development water, and since there were not open, grass-covered, or landscaped areas on the site, the water was added to the drums of soil cuttings.

Soil Cuttings Sampling, Results, and Disposal

Although no evidence of apparent impacted soils were identified during boring advancement, the soils generated from the auger cutting returns were placed in three 55-gallon drums, and the drums were labeled, secured, and stored at the site pending laboratory results and disposal acceptance. Prior to securing the drums, a composite sample of the soils (labeled as IDW-1) within the drums was collected and submitted for laboratory analysis of volatile organic compounds (VOCs) using EPA Method 8260/5035A and semi-volatile organic compounds (SVOCs) using EPA Method 8270/3546. The samples were submitted to Pace for analysis. Results of the analysis did not identify any target constituents at concentrations above their respective laboratory method detection limits. Based on the results, these soils could have been spread on site; however, due to little or no open, grass, or landscape areas, the soils were transported off-site for disposal at the Haz-Mat Environmental Services facility located in Charlotte, North Carolina. A copy of the laboratory report and Chain of Custody record for the sample of the drummed soils along with the disposal manifest is included in **Appendix IV**.

Sub-slab Vapor Sampling

In order to further assess for possible VOCs from the soils and groundwater beneath the

existing buildings or from off-site sources, and due to the current limited accessibility of the site, S&ME collected five (5) shallow sub-slab vapor samples (SV-1 through SV-2) on July 14, 2014, at accessible locations throughout the site buildings. Sample SV-1 was located behind an outside bar area in the northern portion of the site. Sample SV-2 was collected in a basement area in the southern portion of the site; sample SV-3 was located in the southwest corner of the site; sample SV-4 was collected in an entrance doorway on the western portion of the site; and sample SV-5 was collected in an entrance doorway in the northwest corner of the site. Except for sample SV-2, all the samples were collected on the ground floor and no basement was known to exist beneath them. The approximate locations of the five sub-slab vapor samples are indicated on **Figure 3**.

Prior to penetrating the floors and in an effort to assist in identifying below slab utilities and conditions, S&ME conducted localized ground penetration radar (GPR) of the proposed sampling areas. Results of the GPR scans indicated no obstructions or identifiable utilities at any of the proposed locations; therefore S&ME drilled through the concrete slab at each location using a masonry bit and inserted a ¼-inch stainless steel vapor sampling probe made by Geoprobe® to a depth of approximately 1.5 feet below the floor surface. The sampling probes were equipped with a screen section at the bottom and to a Teflon® tubing assembly at the top that extended through the concrete slab. The Teflon® tubing was connected to pre-evacuated, certified-clean, 6-liter, Summa Canisters© equipped with pre-set flow control regulators set at 1 hour collection times. The annulus between the concrete surface and the sampling assembly was sealed with VOC-free modeling clay in order to prohibit ambient air from above the concrete to be drawn within the sub-slab sample.

The connections were made using Teflon® tape and the sampling array was assessed for leaks by monitoring for the presence of helium gas concentrations using a helium detection meter that was connected to the sampling array Teflon tubing. A shroud was placed over the sampling array connections and helium was injected into the shroud. After successfully passing the leak test, S&ME collected the sub-slab vapor samples for a period of 1 hour. During sample collection, the gauge on the canister was monitored as to stop the sample collection prior to the 1 hour sample time, should the canister fill prior to that time. After collection, the valve on the canister was closed, the assembly disconnected and removed from the hole and the concrete patched to the surrounding surface. Each canister containing the samples were submitted to Con-Test Analytical Laboratory located in East Longmeadow, Massachusetts under chain of custody protocol for the analysis of VOCs using EPA Method TO-15.

Sub-slab Vapor Sample Results

The Sub-slab vapor analytical results were compared to the NCDENR, Division of Waste Management, Inactive Hazardous Sites Branch's (IHSB) Soil Gas Screening Levels (SGSL). Since the proposed redevelopment of the site may be used as residential, the analytical results were compared to the IHSB Residential Sub-slab SGSL's.

Results of the analyses of the five samples identified several VOCs at concentrations exceeding their laboratory reporting limits and several that were noted as estimated concentrations below the reporting limits, as well as some that are listed by the laboratory as biased on the high due to laboratory calibration not meeting method specifications. However, based on the results, none of the detected concentrations exceeded the Residential Sub-slab SGSLs. A summary of the soil vapor results along with the IHSB Residential Sub-slab SGSLs are included as **Table 3**. The laboratory report and chain of custody record are included in **Appendix V**.

Preliminary Geotechnical Activities

In conjunction with drilling borings for the temporary monitoring wells, Standard Penetration Test (SPT) split-spoon sampling was performed at designated intervals in general accordance with ASTM D 1586 to provide an index for estimating soil strength and relative density/consistency and to retrieve samples for soil classification purposes. Representative portions of each soil sample were placed in glass jars and taken to our laboratory. As indicated, both of the borings were extended until auger refusal was encountered at depths of 27.5 to 36.5 feet.

Once the samples were received in our laboratory, a geotechnical staff professional visually examined each sample in general accordance with the Unified Soil Classification System (USCS) to estimate the distribution of grain sizes, plasticity, organic content, moisture condition, color, presence of lenses and seams and apparent geological origin. The results of the classifications, as well as the field test results, are presented on the individual boring logs attached to this report. Similar materials were grouped into strata on the logs. The strata contact lines represent approximate boundaries between the soil and rock types; the actual transition between the soil and rock types in the field may be gradual in both the horizontal and vertical directions.

The drill rig used to perform the borings is equipped with a hydraulic automatic hammer for penetration testing. The N-values reported on the Boring Logs (**Appendix II**) are the actual field measured blow counts and are not corrected for the hammer energy.

CONCLUSIONS

According to the activities conducted and the results obtained, S&ME concludes the following for the Limited Phase II Environmental Site Assessment and the Preliminary Geotechnical Evaluation.

Environmental Activities

The results of the two groundwater samples collected along the southern (and presumed downgradient) portion of the Property did not indicate the presence of VOCs or SVOCs. Several metals were detected in the groundwater samples at concentrations exceeding their respective 2L Standards. The presence and concentration of these metals may be

due to the leaching of naturally-occurring metals in sediment that was collected with the groundwater samples, rather than from actual dissolved metals. However, the presence of dissolved metals at concentration exceeding the 2L Standards cannot be ruled out.

The results of the Sub-slab vapor samples indicated that soil vapor exhibits detectable concentrations of a variety of VOCs, including chlorinated compounds, petroleum compounds, and freon, and that this VOC impact is across all soil vapor sampling points on the property. While detected concentrations were below the Residential Sub-slab PSRGs, the presence of these VOCs indicates that the property has been impacted by a release of these materials to the environment and suggests that VOCs may be present in other areas of the property, potentially at higher concentrations.

Preliminary Geotechnical Activities

Results of the two borings performed indicate that subsurface conditions consist of residual soils, which have weathered in place from the underlying bedrock, that transition to partially weathered rock (PWR) at about 22 to 27 feet and auger refusal at depths of 27.5 to 36.5 feet. PWR is defined as residual soils with SPT N-values greater than 100 blows per foot and auger refusal is material that could not be penetrated with the drilling equipment/tooling used on the project. Auger refusal materials may consist of boulders, rock ledges/seams, or top of parent bedrock. Based on our experience, we suspect that auger refusal encountered is top of parent bedrock.

Although not encountered in the borings, our experience suggests that urban fills are typical in the project area. It should be noted that samples were not obtained until a depth of about 8 feet. Urban fills are variable in composition and stiffness/density, and often contain topsoil/wood, construction debris, and other deleterious inclusions. Remnants of previous development activities (e.g., foundations, foundation walls, tanks, etc.) were often left in place and end up being encountered during new development activities. These conditions often require undercutting and replacement with new structural fill.

We understand that current plans are for the proposed development to include a 34- to 36-story building with a footprint covering a majority of the subject site. We also understand that subterranean levels are not currently planned.

Based on the building size and anticipated loads (2,000 to 5,000 kips), a deep foundation bearing system will be required unless 2+ below grade levels are planned such that a mat foundation bearing on the PWR/rock could be considered. Deep foundations consisting of driven steel H-piles or drilled auger cast piles bearing in the PWR and extending to depths of about 25 to 35 feet below existing grades could be considered. Alternatively, drilled shafts bearing 5 to 10 feet into rock (depths of about 35 to 45 feet) could also be considered. Our experience suggests that driven/drilled piles are typically used on sites with similar PWR/rock depths if rock quality is poor and drilled shafts are used where rock quality is good. Accordingly, evaluation of drilled shafts should include an

assessment of the overall rock quality such that accurate estimates of drilled shaft design parameters can be determined.

As plans progress, a design geotechnical exploration should be performed to assess the lateral variability in the deep foundation bearing strata (i.e., PWR and rock). This can be performed prior to building demolition by drilling around the site perimeter or by drilling at various locations at the site after building demolition. The drilling program should include rock coring and performing compressive strength testing on rock core specimens to allow characterization of rock quality. If plans change and subterranean levels are introduced such that a mat foundation becomes viable, the exploration should assess potential compressibility of the PWR and strengths of the residual soils for temporary/permanent shoring design. Assessment of the groundwater levels should also be performed such that dewatering requirements can be properly assessed.

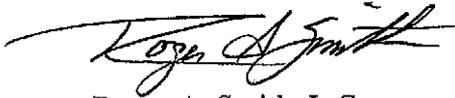
Finally, the environmental conditions/findings of the site should be considered when evaluating foundations and earthwork. Excavations at the site that require soil removal may require special handling, testing, and/or disposal depending on potential contamination. Similar requirements may be necessary for foundation spoils and groundwater control as some foundations will generate spoils and temporary dewatering (e.g., drilled shafts and traditional augered piles) whereas others may not (e.g., driven steel H-piles and displacement augered piles). Close coordination between the environmental and geotechnical consultant help facilitate these conversations which S&ME is happy and well-equipped to do.

CLOSURE

S&ME appreciates the opportunity to be of service to you on this project. If you have any questions regarding this report, or if we may be of any further assistance, please contact us at your convenience.

Sincerely,

S&ME, Inc.



Roger A. Smith, L.G.
Senior Geologist/Project Manager



Duane Bents, P.E.
Senior Geotechnical Engineer

Senior Reviewed by: Al Quarles, L.G., Senior Geologist

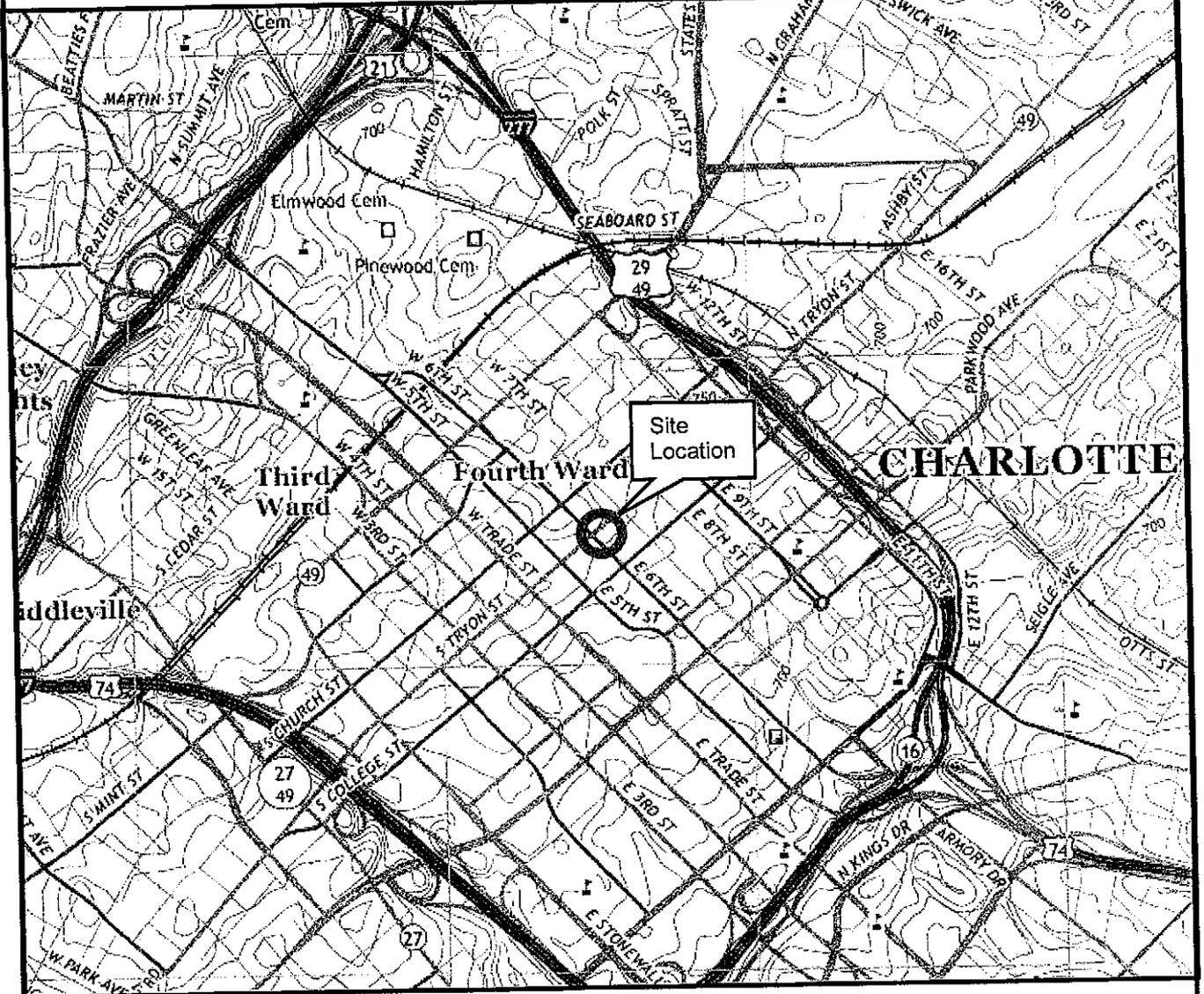
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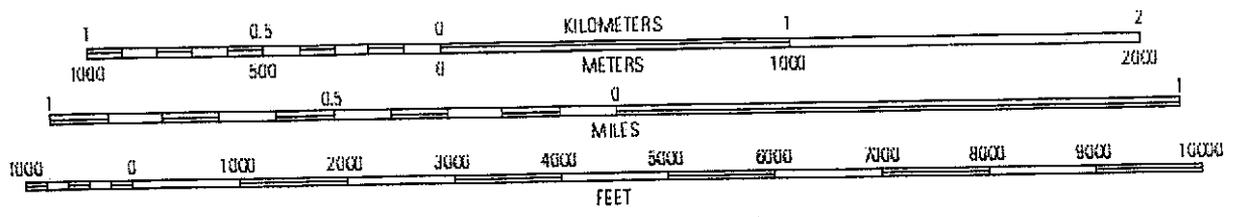
Enclosures:

- Figure 1 – Site Location Map
- Figure 2 – Site 2014 Site Aerial
- Figure 3 – Sample Location Map
- Table 1 – Well Construction and Water Level Data
- Table 2 – Summary of Groundwater Sampling Results
- Table 3 – Summary of Soil Vapor Results
- Appendix I – Mecklenburg County SIP, Well Registration, and Abandonment Documents
- Appendix II – Soil Boring Logs, Well Construction and Abandonment Records
- Appendix III – Laboratory Report – Groundwater Samples
- Appendix IV – Laboratory Report and Disposal Manifest – Drummed Soil Cuttings
- Appendix V – Laboratory Report – Sub-slab Vapor Samples

FIGURES



SCALE 1:24 000



Base Map taken from 2013 Charlotte East, NC USGS topographic map.

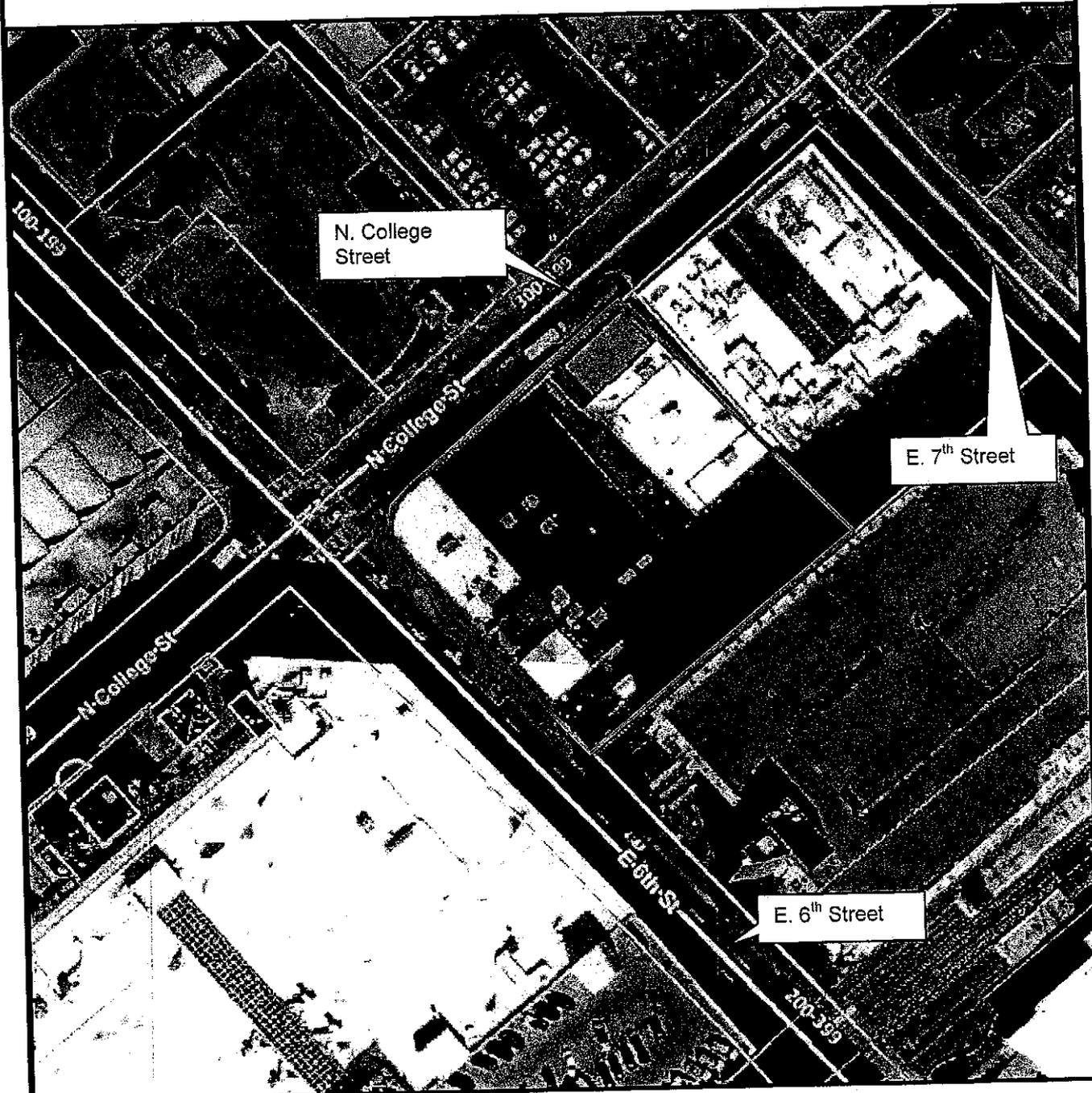
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Checked by: WAQ
Date: 7/16/14



Site Location Map
N. College Street Site
300 & 314 N. College Street
Charlotte, North Carolina

Job No.: 4335-14-152

Figure
1

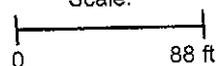


———— Site Boundary

Base map (2014 Aerial Photograph) obtained from Mecklenburg County, North Carolina POLARIS website

Note: Yellow lines indicate Mecklenburg County Parcels

Approximate
Scale:



Scale: As Indicated

Drawn by: RAS

Checked by: WAQ

Date: 7/16/14



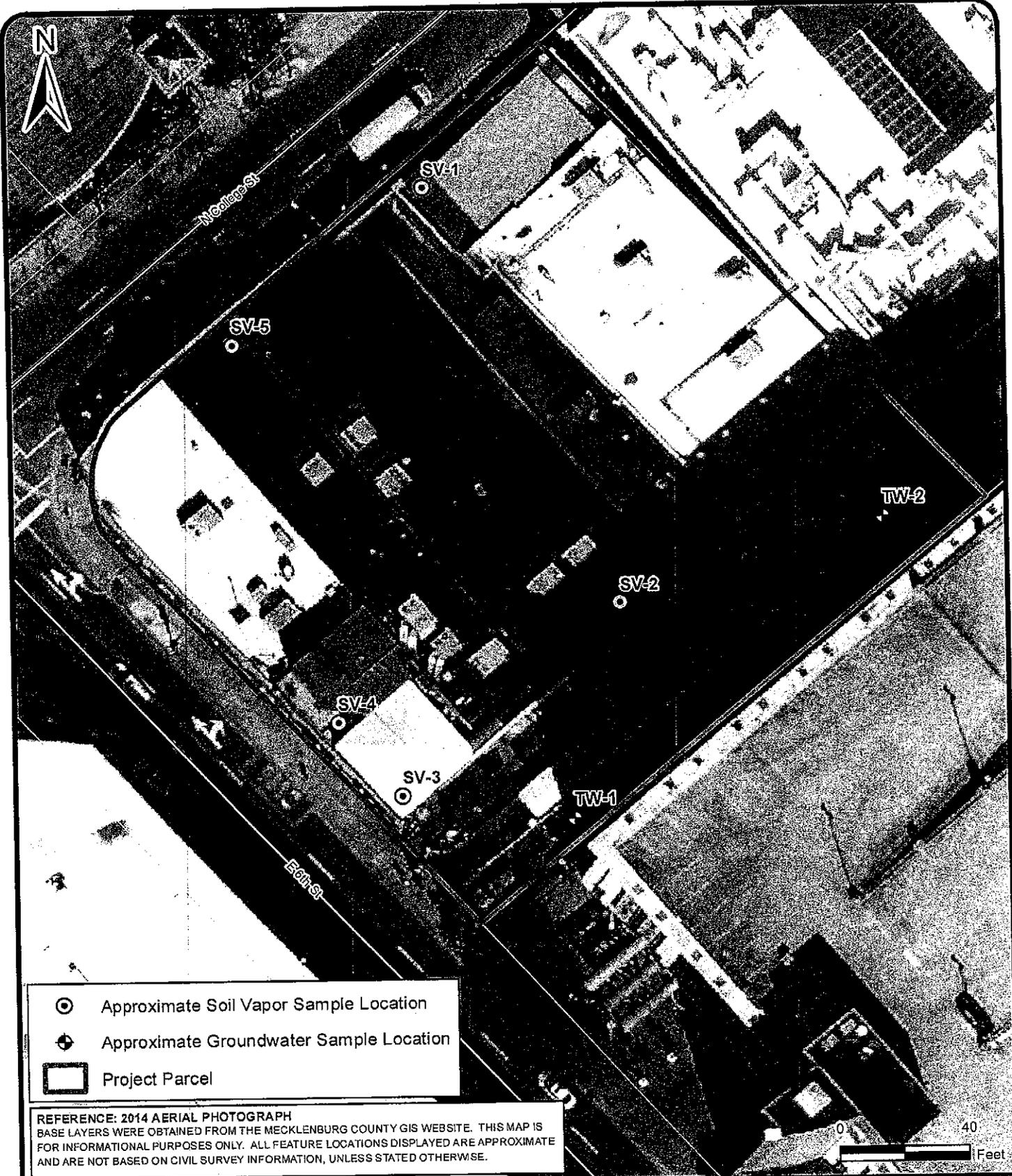
Site 2014 Aerial Map

N. College Street Site
300 & 314 N. College Street
Charlotte, North Carolina

Job No.: 4335-14-045

Figure

2



- ⊙ Approximate Soil Vapor Sample Location
- ⊕ Approximate Groundwater Sample Location
- ▭ Project Parcel

REFERENCE: 2014 AERIAL PHOTOGRAPH
 BASE LAYERS WERE OBTAINED FROM THE MECKLENBURG COUNTY GIS WEBSITE. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATE AND ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

SCALE:	1" = 40'
DATE:	08-12-14
DRAWN BY:	DDH
PROJECT NO.:	4335-14-045



S&ME
 WWW.SMEINC.COM
 ENGINEERING LICENSE NO: F-0176

SAMPLE LOCATION MAP
 N. COLLEGE STREET SITE
 300 & 314 NO. COLLEGE STREET
 CHARLOTTE, NORTH CAROLINA

FIGURE NO.
3

TABLES

Table 1
Well Construction and Water Level Data
Limited Phase II Environmental Site Assessment & Preliminary
Geotechnical Evaluation
North College Street Site
300 & 314 N. College Street
Charlotte, Mecklenburg County, North Carolina
S&ME Project Number 4335-14-152

Well ID	Date Installed (m/dd/yy)	Date Abandoned (m/dd/yy)	Well Casing Depth (ft. BGS)	Screen Interval (x to y ft. BGS)	Bottom of Well (ft. BGS)	Date Water Level Measured (m/dd/yy)	Depth to Water from Top of Ground (ft.)
TW-1	07/14/14	07/14/14	6.5	6.5 to 36.5	36.5	07/14/14	13.52
TW-2	07/14/14	07/14/14	2.5	2.5 to 27.5	27.5	07/14/14	14.09

ft BGS = feet below ground surface

Table 2
Summary of Current Groundwater Sampling Results
Limited Phase II Environmental Site Assessment & Preliminary Geotechnical Evaluation
North College Street Site
300 & 314 N. College Street
Charlotte, Mecklenburg County, North Carolina
S&ME Project Number 4335-14-152

Analytical Method		VOCs (8260)	SVOCs (625)	Total RCRA Metals (6010/7470)							
Sample ID	Date	Various	Various	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
TW-1	7/14/2014	All BDL	All BDL	<10	8,020	<1.0	1,700	28.4	<0.20	<10.0	<5.0
TW-2	7/14/2014	All BDL	All BDL	20.9	619	<1.0	29.9	58.2	0.26	<10.0	<5.0
2L Standard		Various	Various	10	700	2	10	15	1	20	20

All results expressed in micrograms per liter (µg/L)
 BDL = Below Laboratory Method Detection Limit
 2L Standard = 15A NCAC 2L .0202 Groundwater Quality Standard (4/1/2013)
Value : The result exceeds the Title 15A NCAC 2L Groundwater Standard (4/16/2012).

Table 3
Summary of Soil Vapor Results
Limited Phase II Environmental Site Assessment & Preliminary Geotechnical Evaluation
North College Street Site
300 & 314 N. College Street
Charlotte, Mecklenburg County, North Carolina
S&ME Project Number 4335-14-152

Contaminant (EPA Method TO-15)	Sample ID					Max Detected	IHSB Screening Level
	SV-1	SV-2	SV-3	SV-4	SV-5		
Acetone	190 (V-06)	100 (V-06)	200 (V-06)	220 (V-06)	160 (V-06)	220	216,000
Benzene	1.8	4.2	0.33	20	1.0	20	120
2-Butanone (MEK)	20.0	9.2 (J)	5.6 (J)	7.0 (J)	9.4 (J)	20	34,800
Carbon Disulfide	6.7	11	3.1 (J)	5.6	5.9	11	4,870
Carbon Tetrachloride	0.42 (J)	0.16 (J)	0.30 (J)	0.29 (J)	0.29 (J)	0.42	156
Chloroethane (ethyl chloride)	<0.26	<0.26	<0.26	0.61	<0.26	0.61	69,500
Chloroform	2.6	37	1.2	13	0.86	37	40.7
Chloromethane	0.58	0.51	0.20 (J)	0.52	0.36 (J)	0.58	626
Cyclohexane	0.76	4.1	<0.34	37	0.66	37	41,700
Dichlorodifluoromethane (Freon 12)	4.4	4.1	2.6	16	6.1	16	695
1,1,-Dichloroethylene	<0.40	0.86	<0.40	<0.40	<0.40	0.86	1,390
cis-1,2-Dichloroethylene	<0.40	5.2	<0.40	<0.40	<0.40	5.2	NE
trans-1,2-Dichloroethylene	<0.40	0.46	<0.40	<0.40	<0.40	0.46	NE
Ethanol	330 (L-05)	27 (L-05)	510 (L-05)	78 (L-05)	84 (L-05)	510	NE
Ethylbenzene	1.4	1.3	0.43 (J)	0.83	0.72	1.4	374
4-Ethyltoluene	0.56	1.6	0.37 (J)	<0.49	0.19 (J)	1.6	NE
Heptane	0.72	14	<0.41	7.0	0.49	14	NE
Hexane	1.2 (J)	<14	1.5 (J)	27	1.4 (J)	27	4,870
2-Hexanone (MBK)	2.1	<0.41	0.48	<0.41	1.2	2.1	209
Isopropanol	8.2 (J)	1.3 (J)	180	<9.8	2.9 (J)	180	NE
Methyl tert-butyl ether (MTBE)	0.16 (J)	<0.36	<0.36	<0.36	<0.36	0.16	3,600
Methylene Chloride	19	3.8	3.5 (J)	1.2 (J)	2.0 (J)	19	4,170
4-Methyl-2-pentanone (MIBK)	1.6	<0.41	1.2	<0.41	0.75	1.6	20,900
Propene	5.3 (J)	87	1.20 (J)	31	2.1 (J)	87	20,900
Styrene	0.94	0.34 (J)	0.12 (J)	<0.43	0.13 (J)	0.94	6,950
Tetrachloroethylene (PCE)	2.1	0.53 (J)	1.4	0.38 (J)	1.7	2.1	278
Tetrahydrofuran	3.6	<0.29	0.93	<0.29	<0.29	3.6	13,900
Toluene	8.3	6.5	0.98	28	2.3	28	34,800
1,1,1-Trichloroethane	7.6	<0.55	0.24 (J)	0.14 (J)	2.8	7.6	34,800
Trichloroethylene	1.4	11	<0.54	<0.54	<0.54	11	13.9
Trichlorofluoromethane (Freon 11)	4.9	2.2	3.2	3.1	6.2	6.2	4,870
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.58 (J)	0.52 (J)	0.66 (J)	0.87	0.72 (J)	0.87	209
1,2,4-Trimethylbenzene	2.9	2.6	4.1	0.62	1.1	4.1	48.7
1,3,5-Trimethylbenzene	0.96	1.6	0.93	0.34 (J)	0.42 (J)	1.6	NE
Vinyl Chloride	<0.26	0.13 (J)	<0.26	<0.26	<0.26	0.13	55.9
Total Xylenes	7.1	7.8	2.92	6.8	5.7	7.8	695

Notes:

All samples collected on July 14, 2014.

All values presented in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

(value) = notes - below

NE = Not Established

J = Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration.

L-05 = Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.

V-06 = Continuing calibration did not meet method specifications and was biased on the high side for this compound.

Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

IHSB Screening Levels (Residential Sub Slab Soil Gas) taken from NCDENR - Division of Waste Management, Inactive Hazardous Sites Branch, Residential Vapor Intrusion Screening Levels dated June 2014.

Only those contaminants detected in at least one sample are listed above. Please refer to the laboratory report for complete results.

APPENDIX I

**Mecklenburg County SIP, Well Registration,
and Abandonment Documents**

Mecklenburg County Health Department
Groundwater & Wastewater Services
700 N. Tryon St., Suite 211
Charlotte, NC 28202
Phone: (704) 336-5103
Fax: (704) 336-6894
<http://groundwater.charmeck.org>



Bill To: Owner
Permit Issuance Date: 7/8/2014
Permit Number: 70002161

SUBSURFACE INVESTIGATION PERMIT

I. Well Owner Information

Name: Tivoli Properties, Inc.
Attn: Mr. Nicholas Mullins
Phone #: (404) 815-6700
Address 1: One Midtown Plaza, Suite 750
Address 2: 1360 Peachtree Street, NE
City: Atlanta State: GA Zip: 30309

II. Agent Information (if applicable)

Name: S&ME, Inc.
Attn: Roger A. Smith, PG
Phone #: (704) 523-4726
Address 1: 9751 Southern Pine Blvd.
Address 2: _____
City: Charlotte State: NC Zip: 28273

III. Site Information

Site Name: N. College Street Site
Parcel ID Number: 08002402
Address: 300 N COLLEGE ST
City: CHARLOTTE State: NC Zip: 28202

General Conditions of This Permit:

- This permit shall be VALID for a period not to exceed twelve (12) months from the date of issuance.
- This permit is VALID for the site specified above and must be on-site during the course of the investigation and made available to a Department representative upon request.
- A North Carolina Certified Well Contractor must perform any well contractor activities associated with this permit.
- All wells shall be constructed and abandoned to the standards of Chapter VI, Section V and Section VI of the Mecklenburg County Groundwater Well Regulations.
- All temporary wells, including those installed using Direct Push Technology, must be abandoned to the standards of Chapter VI, Section VI of the Mecklenburg County Groundwater Well Regulations.
- Registration information for all wells must be submitted to the Department within thirty (30) days of well completion. If water samples are collected, it is recommended that the well NOT be registered until the analytical results are received.

Mecklenburg County Health Department
Groundwater & Wastewater Services
700 N. Tryon St., Suite 211
Charlotte, NC 28202
Phone: (704) 336-5103
Fax: (704) 336-6894
<http://groundwater.charmeck.org>



Monitoring Well Summary

Site Information

Name: N. Collge Street Site
Address: 300 N COLLEGE ST CHARLOTTE NC 28202
SIP/Reg. #: 70002161
Parcel ID: 08002402

Well Parcel	Count	Well Status	Well Type
08002402	3 2	Active	Monitoring

Abandoned

→ This information was
corrected and documentation
submitted to Mrs. Shanna
Caldwell of Mecklenburg
County in email dated July 24, 2014.
Per attached.

ED 7/24/14

Roger Smith

From: Roger Smith
Sent: Thursday, July 24, 2014 12:20 PM
To: Caldwell, Shawna
Subject: RE: SIP70002161

Shawna,

I mistakenly added TW-1 twice (as listed below). The first one is correct. Can you delete the second one? I tried to delete it, but was unable to do so. Also, after installation and sampling on July 14, both temporary wells (TW-1 and TW-2) were abandoned.

Thanks,



Monitoring Well Registration

[Registration Help](#)

Site Information

SITE_NAME	N. College Street Site
SITE_ADDRESS	300 n COLLEGE ST
SITE_PARCEL	08002402
SIP#	70002161

Owner Information

Owner_Name	Tivoli Properties, Inc.
ATTN	Mr. Nicholas Mullins
Address1	One Midtown Plaza, Suite 750
Address2	1360 Peachtree Street, NE
	Atlanta GA 30309
Phone	(404) 815-6700

Agent Information

Agent Name	S&ME, Inc.
ATTN	Roger A. Smith
Address1	9751 Southern
Address2	
	Charlotte NC 28
Phone	(704) 523-4726

	WELL_NAME	WELL_TYPE	WELL_STATUS	PARCEL_ID	INSTALL_DATE	DATE_ABANDON	DEPTH_TO_GW	BILLABLE	ID
Select	TW-1	Monitoring	Active	08002402	07/14/2014		13.5	Yes	18760
Select	TW-1	Monitoring	Active	08002402	07/14/2014		36.5	Yes	18761
Select	TW-2	Monitoring	Active	08002402	07/14/2014		14	Yes	18762

WELL_NAME	TW-1
WELL_TYPE	Monitoring
	Active
WELL_PARCEL	08002402
INSTALL_DATE	07/14/2014
2L_EXCEEDED	Yes
SOIL_CONTAM	No
DEPTH_TO_GW	36.50 FT BLS
Billable	<input type="checkbox"/>
<input type="button" value="Update"/> <input type="button" value="Cancel"/>	



Roger A. Smith, P.G.
 Senior Geologist/Project Manager
 Environmental Department Coordinator

ENGINEERING INTEGRITY.

S&ME, Inc.
9751 Southern Pine Boulevard
Charlotte, NC 28273
Ph: 704-523-4726
Fax: 704-525-3953
Mobile: 704-840-7279
rsmith@smeinc.com
www.smeinc.com

This electronic message is subject to the terms of use set forth at www.smeinc.com/email. If you received this message in error please advise the sender by reply and delete this electronic message and any attachments. Please consider the environment before printing this email.

-----Original Message-----

From: Caldwell, Shawna [<mailto:Shawna.Caldwell@mecklenburgcountync.gov>]
Sent: Tuesday, July 08, 2014 4:44 PM
To: Roger Smith
Subject: FW: SIP70002161

Roger,

Attached please find the referenced SIP as requested for Tivoli Properties. Please let me know if you have any questions. Have a good day.

Shawna W. Caldwell, P.G.
Hydrogeologist
Mecklenburg County Government
Groundwater and Wastewater Services
700 North Tryon Street
Charlotte, NC 28202
GWS Phone: 704.336.5103
GWS Fax: 704.336.4391
Direct Line: 704.432.4232
Cell Phone: 704.622.5168
shawna.caldwell@mecklenburgcountync.gov

APPENDIX II

**Soil Boring Logs, Well Construction
and Abandonment Records**

PROJECT: North College Street Site Charlotte, North Carolina S&ME Project No.		BORING LOG TW-1											
DATE DRILLED: 7/14/14	ELEVATION:	NOTES: Screened interval: 6.5 - 36.5 Feet Riser Interval: 0 - 6.5 Feet											
DRILL RIG:	BORING DEPTH: 36.5 ft												
DRILLER: T. Miller	WATER LEVEL:												
HAMMER TYPE: Automatic	LOGGED BY: J. Williamson												
SAMPLING METHOD: Split spoon		NORTHING:	EASTING:										
DRILLING METHOD: 3/4" H.S.A.													
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet-MSL)	SAMPLE NO.	SPT REC. (in.)	SAMPLE TYPE	BLOW COUNT CORE DATA			REMARKS STANDARD PENETRATION TEST DATA (blows/ft) 10 20 30 6080	N VALUE	
								1st 6in / RUNS	2nd 6in / RUNS	3rd 6in / RUNS			
		Asphalt and Gravel											
5		RESIDUUM: CLAYEY SAND (SC) - medium dense, orange brown, trace gravel, fine to medium, moist			SS-1	3			3	5	7	12	12
10		SANDY SILT (ML) - firm, tan brown, moist			SS-2	2			2	3	4	7	7
15		SANDY SILT (ML) - stiff to very stiff, tan brown, moist			SS-3	2			2	6	5	1	11
20		SANDY SILT (ML) - stiff to very stiff, tan brown, moist			SS-4	3			3	6	11	7	17
25		SANDY SILT (ML) - stiff to very stiff, tan brown, moist			SS-5	5			5	6	9	15	15
30		PARTIALLY WEATHERED ROCK: SANDY SILT (ML) - brown, dry			SS-6	15			15	40	0.4	100	60/0.4

S&ME BORING LOG 4335-14-152 NORTH COLLEGE STREET SITE.GPJ S&ME.GDT 8/13/14

NOTES:

1. THIS LOG IS ONLY A PORTION OF A REPORT PREPARED FOR THE NAMED PROJECT AND MUST ONLY BE USED TOGETHER WITH THAT REPORT.
2. BORING, SAMPLING AND PENETRATION TEST DATA IN GENERAL ACCORDANCE WITH ASTM D-1586.
3. STRATIFICATION AND GROUNDWATER DEPTHS ARE NOT EXACT.
4. WATER LEVEL IS AT TIME OF EXPLORATION AND WILL VARY.



PROJECT: North College Street Site Charlotte, North Carolina S&ME Project No.				BORING LOG TW-1							
DATE DRILLED: 7/14/14		ELEVATION:		NOTES: Screened Interval: 6.5 - 36.5 Feet Riser Interval: 0 - 6.5 Feet							
DRILL RIG:		BORING DEPTH: 36.5 ft									
DRILLER: T. Miller		WATER LEVEL:									
HAMMER TYPE: Automatic		LOGGED BY: J. Williamson									
SAMPLING METHOD: Split spoon				NORTHING:		EASTING:					
DRILLING METHOD: 3/4" H.S.A.											
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet-MSL)	SAMPLE NO.	SPT REC. (in.) SAMPLE TYPE	BLOW COUNT OR CORE DATA			REMARKS STANDARD PENETRATION TEST DATA (blows/ft) 10 20 30 60 80	N VALUE
							1st 6in / RUNS	2nd 6in / REE DATA	3rd 6in / RQDA		
35		PARTIALLY WEATHERED ROCK: SILTY SAND (SM) - brown, fine, dry			SS-7	31	50/0				100 50/0
		Refusal at 36.5 feet Boring terminated at 36.5 feet			SS-8	50/0					100 50/0

S&ME BORING LOG 4335-14-152 NORTH COLLEGE STREET SITE.GPJ S&ME.GDT 8/13/14

NOTES:

1. THIS LOG IS ONLY A PORTION OF A REPORT PREPARED FOR THE NAMED PROJECT AND MUST ONLY BE USED TOGETHER WITH THAT REPORT.
2. BORING, SAMPLING AND PENETRATION TEST DATA IN GENERAL ACCORDANCE WITH ASTM D-1586.
3. STRATIFICATION AND GROUNDWATER DEPTHS ARE NOT EXACT.
4. WATER LEVEL IS AT TIME OF EXPLORATION AND WILL VARY.



PROJECT:		North College Street Site Charlotte, North Carolina S&ME Project No.		BORING LOG TW-2								
DATE DRILLED: 7/14/14		ELEVATION:		NOTES:								
DRILL RIG:		BORING DEPTH: 27.5 ft										
DRILLER: T. Miller		WATER LEVEL:										
HAMMER TYPE: Automatic		LOGGED BY: J. Williamson										
SAMPLING METHOD: Split spoon				NORTHING:		EASTING:						
DRILLING METHOD: 3/4" H.S.A.												
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet-MSL)	SAMPLE NO.	SPT REC. (in.)	SAMPLE TYPE	BLOW COUNT ORE DATA			REMARKS	N VALUE
								1st 6in / RUN#	2nd 6in / RUN#	3rd 6in / RUN#	STANDARD PENETRATION TEST DATA (blows/ft) 10 20 30 6080	
0 - 1	[Hatched]	Asphalt and Gravel										
1 - 7	[Hatched]	RESIDUUM: SANDY CLAY (CL) - firm, orange brown, moist			SS-1	3	3	3	4		7	7
7 - 10	[Hatched]	CLAYEY SAND (SC) - loose, orange brown, fine to medium, wet			SS-2	2	2	2	3		5	5
10 - 15	[Hatched]	CLAYEY SAND (SC) - loose, orange brown, fine to medium, wet			SS-3	2	2	2	3		5	5
15 - 20	[Hatched]	CLAYEY SAND (SC) - medium dense, tan white, fine to medium, wet			SS-4	5	5	5	6		11	11
20 - 25	[Hatched]	PARTIALLY WEATHERED ROCK: SILTY SAND (SM) - tan white, fine to coarse, moist			SS-5	14	26	30	0.4		100	50/0.4
25 - 27.5	[Hatched]	Refusal at 27.5 feet Boring terminated at 27.5 feet			SS-6	50/0					100	50/0

S&ME BORING LOG 4335-14-152 NORTH COLLEGE STREET SITE.GPJ S&ME.GDT 8/13/14

NOTES:

1. THIS LOG IS ONLY A PORTION OF A REPORT PREPARED FOR THE NAMED PROJECT AND MUST ONLY BE USED TOGETHER WITH THAT REPORT.
2. BORING, SAMPLING AND PENETRATION TEST DATA IN GENERAL ACCORDANCE WITH ASTM D-1586.
3. STRATIFICATION AND GROUNDWATER DEPTHS ARE NOT EXACT.
4. WATER LEVEL IS AT TIME OF EXPLORATION AND WILL VARY.





NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2626

1. WELL CONTRACTOR:

Ted Miller

Well Contractor (Individual) Name

S&ME, Inc.

Well Contractor Company Name

9751 Southern Pine Blvd.

Street Address

Charlotte

NC 28273

City or Town

State Zip Code

(704) 523-4726

Area code Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT# _____

OTHER ASSOCIATED PERMIT#(if applicable) 70002161

SITE WELL ID #(if applicable) TW-1

3. WELL USE (Check One Box) Monitoring Municipal/Public

Industrial/Commercial Agricultural Recovery Injection

Irrigation Other (list use) _____

DATE DRILLED 7/14/14

4. WELL LOCATION:

300 & 314 N. College Street (Parcel ID: 08002402)

(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: Charlotte COUNTY Mecklenburg

TOPOGRAPHIC / LAND SETTING: (check appropriate box)

Slope Valley Flat Ridge Other _____

LATITUDE 35 ° 13 ' 39.1500 " DMS OR _____ DD

LONGITUDE 80 ° 50 ' 20.7200 " DMS OR _____ DD

Latitude/longitude source: GPS Topographic map
(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)

N. College Street

N/A

Facility Name

Facility ID# (if applicable)

300 & 314 N. College St (Parcel ID: 08002402)

Street Address

Charlotte

NC

City or Town

State Zip Code

Roger A. Smith, PG

Contact Name

9751 Southern Pine Blvd.

Mailing Address

Charlotte

NC

City or Town

State Zip Code

(704) 523-4726

Area code Phone number

6. WELL DETAILS:

a. TOTAL DEPTH: 36.5

b. DOES WELL REPLACE EXISTING WELL? YES NO

c. WATER LEVEL Below Top of Casing: 13.52 FT.
(Use "+" if Above Top of Casing)

d. TOP OF CASING IS 0.0 FT. Above Land Surface*

*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. YIELD (gpm): N/A METHOD OF TEST N/A

f. DISINFECTION: Type N/A Amount N/A

g. WATER ZONES (depth):

Top _____ Bottom _____ Top _____ Bottom _____

Top _____ Bottom _____ Top _____ Bottom _____

Top _____ Bottom _____ Top _____ Bottom _____

7. CASING:	Depth	Diameter	Thickness/Weight	Material
Top	<u>0.0</u>	Bottom <u>6.5</u>	Ft. <u>2"</u>	<u>Sch 40 PVC</u>
Top	_____	Bottom _____	Ft. _____	_____
Top	_____	Bottom _____	Ft. _____	_____

8. GROUT:	Depth	Material	Method	
Top	_____	Bottom _____	Ft. _____	<u>N/A</u>
Top	_____	Bottom _____	Ft. _____	_____
Top	_____	Bottom _____	Ft. _____	_____

9. SCREEN:	Depth	Diameter	Slot Size	Material
Top	<u>6.5</u>	Bottom <u>36.5</u>	Ft. <u>2</u> in.	<u>0.010 in. PVC</u>
Top	_____	Bottom _____	Ft. _____ in.	_____ in.
Top	_____	Bottom _____	Ft. _____ in.	_____ in.

10. SAND/GRAVEL PACK:	Depth	Size	Material	
Top	_____	Bottom _____	Ft. _____	<u>N/A</u>
Top	_____	Bottom _____	Ft. _____	_____
Top	_____	Bottom _____	Ft. _____	_____

11. DRILLING LOG	Top	Bottom	Formation Description
	<u>0.0</u>	<u>1.0</u>	<u>Asphalt/Gravel</u>
	<u>1.0</u>	<u>15</u>	<u>Orange sandy Clay</u>
	<u>15</u>	<u>36.5</u>	<u>Brown silty Sand</u>
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

12. REMARKS:

Top Bottom

Formation Description

0.0 / 1.0

Asphalt/Gravel

1.0 / 15

Orange sandy Clay

15 / 36.5

Brown silty Sand

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mall Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b Rev. 2/09



NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2626

1. WELL CONTRACTOR:

Ted Miller
 Well Contractor (Individual) Name
S&ME, Inc.
 Well Contractor Company Name
9751 Southern Pine Blvd.
 Street Address
Charlotte NC 28273
 City or Town State Zip Code
(704) 523-4726
 Area code Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT# _____
 OTHER ASSOCIATED PERMIT#(if applicable) 70002161
 SITE WELL ID #(if applicable) TW-2

3. WELL USE (Check One Box) Monitoring Municipal/Public
 Industrial/Commercial Agricultural Recovery Injection
 Irrigation Other (list use) _____
 DATE DRILLED 7/14/14

4. WELL LOCATION:

300 & 314 N. College St (Parcel ID: 08002402)
 (Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: Charlotte COUNTY Mecklenburg

TOPOGRAPHIC / LAND SETTING: (check appropriate box)

Slope Valley Flat Ridge Other _____

LATITUDE 35 ° 13 ' 40.0800 " DMS OR _____ DD

LONGITUDE 80 ° 50 ' 19.5700 " DMS OR _____ DD

Latitude/longitude source: GPS Topographic map
 (location of well must be shown on a USGS topo map and attached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)

N. College Street N/A
 Facility Name Facility ID# (if applicable)
300 & 314 N. College St (Parcel ID: 08002402)
 Street Address
Charlotte NC
 City or Town State Zip Code
Roger A. Smith, PG
 Contact Name
9751 Southern Pine Blvd.
 Mailing Address
Charlotte NC 28273
 City or Town State Zip Code

(704) 523-4726
 Area code Phone number

6. WELL DETAILS:

a. TOTAL DEPTH: 27.5
 b. DOES WELL REPLACE EXISTING WELL? YES NO
 c. WATER LEVEL Below Top of Casing: 14.09 FT.
 (Use "+" if Above Top of Casing)

d. TOP OF CASING IS 0.0 FT. Above Land Surface*
 *Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. YIELD (gpm): N/A METHOD OF TEST N/A

f. DISINFECTION: Type N/A Amount N/A

g. WATER ZONES (depth):
 Top _____ Bottom _____ Top _____ Bottom _____
 Top _____ Bottom _____ Top _____ Bottom _____
 Top _____ Bottom _____ Top _____ Bottom _____

7. CASING:	Depth	Diameter	Thickness/Weight	Material
Top	<u>0.0</u>	<u>Bottom 2.5</u>	<u>Ft. 2"</u>	<u>Sch 40 PVC</u>
Top	_____	_____	_____	_____
Top	_____	_____	_____	_____

8. GROUT:	Depth	Material	Method
Top	_____	_____	<u>N/A</u>
Top	_____	_____	_____
Top	_____	_____	_____

9. SCREEN:	Depth	Diameter	Slot Size	Material
Top	<u>2.5</u>	<u>Bottom 27.5</u>	<u>Ft. 2" jn. 0.010 in.</u>	<u>PVC</u>
Top	_____	_____	_____	_____
Top	_____	_____	_____	_____

10. SAND/GRAVEL PACK:	Depth	Size	Material
Top	_____	_____	<u>N/A</u>
Top	_____	_____	_____
Top	_____	_____	_____

11. DRILLING LOG	Top	Bottom	Formation Description
	<u>0.0</u>	<u>/ 1.0</u>	<u>Asphalt/Gravel</u>
	<u>1.0</u>	<u>/ 11</u>	<u>Light Brown silty Clay</u>
	<u>11</u>	<u>/ 20</u>	<u>Light Brown silty Sand</u>
	<u>20</u>	<u>/ 27.5</u>	<u>Tan - White silty Sand</u>
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

12. REMARKS:
Temp well, Abandoned after sampling

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Ted Miller 8-1-14
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Ted Miller
 PRINTED NAME OF PERSON CONSTRUCTING THE WELL



WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2626

1. WELL CONTRACTOR:

Ted Miller
 Well Contractor (Individual) Name
 S&ME, inc.
 Well Contractor Company Name
 9751 Southern Pine Boulevard
 Street Address
 Charlotte NC 28273
 City or Town State Zip Code
 (704) 523-4726
 Area code Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) TW-1
 STATE WELL PERMIT # (if applicable)
 COUNTY WELL PERMIT # (if applicable) 70002161
 DWQ or OTHER PERMIT # (if applicable)
 WELL USE (Check applicable use) Monitoring Residential
 Municipal/Public Industrial/Commercial Agricultural
 Recovery Injection Irrigation
 Other (list use)

3. WELL LOCATION:

COUNTY Mecklenburg QUADRANGLE NAME Charlotte East
 NEAREST TOWN: Charlotte, NC
 300 & 314 N. College St. (Parcel ID: 08002402)
 (Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other
 (Check appropriate setting)

LATITUDE 35 ° 13 ' 39.1500 " DMS OR DD

LONGITUDE 80 ° 50 ' 20.7200 " DMS OR DD

Latitude/longitude source: GPS Topographic map
 (location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4a. FACILITY - The name of the business where the well is located. Complete 4a: (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable)
 NAME OF FACILITY Phoenix
 STREET ADDRESS 300 N. College Street
 Charlotte NC
 City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Roger Smith (S&ME, Inc.)
 STREET ADDRESS 9751 Southern Pine Blvd., Charlotte NC

5. WELL DETAILS:

a. Total Depth 36.5 ft. Diameter: 2 in.
 b. Water Level (Below Measuring Point): 13.52 ft.
 Measuring point is 0.0 ft. above land surface.

6. CASING:

Length Diameter
 a. Casing Depth (if known): 6.5 ft. 2 in.
 b. Casing Removed: ft. in.

7. DISINFECTION: N/A

(Amount of 65% 75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement Sand Cement
 Cement lb. Cement lb.
 Water gal. Water gal.

Bentonite

Bentonite 910 lb.
 Type: Slurry Pellets
 Water gal.

Other

Type material
 Amount

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Temporary well, installed, sampled then abandoned on same day.

10. WELL DIAGRAM : Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used

11. DATE WELL ABANDONED 7/14/14

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C. WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Ted Miller 8-1-14
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Ted Miller
 PRINTED NAME OF PERSON ABANDONING THE WELL



WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2626

1. WELL CONTRACTOR:

Ted Miller
Well Contractor (Individual) Name
S&ME, Inc.
Well Contractor Company Name
9751 Southern Pine Boulevard
Street Address
Charlotte NC 28273
City or Town State Zip Code
(704) 523-4726
Area code Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) TW-2
STATE WELL PERMIT # (if applicable)
COUNTY WELL PERMIT # (if applicable) 70002161
DWQ or OTHER PERMIT # (if applicable)
WELL USE (Check applicable use) Monitoring Monitoring Residential
Municipal/Public Industrial/Commercial Agricultural
Recovery Injection Irrigation
Other (list use)

3. WELL LOCATION:

COUNTY Mecklenburg QUADRANGLE NAME Charlotte East
NEAREST TOWN: Charlotte, NC
300 & 314 N. College St. (Parcel ID: 08002402)
(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other
(Choose appropriate setting)

LATITUDE 35 13 40.0800 " DMS OR DD

LONGITUDE 80 50 19.5700 " DMS OR DD

Latitude/longitude source: GPS Topographic map
(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4a. FACILITY - The name of the business where the well is located. Complete 4a:
(if a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable)
NAME OF FACILITY Bar Charlotte
STREET ADDRESS 314 N. College Street
Charlotte NC
City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Roger Smith (S&ME, Inc.)
STREET ADDRESS 9751 Southern Pine Blvd., Charlotte NC

5. WELL DETAILS:

a. Total Depth 27.5 ft. Diameter: 2 in.
b. Water Level (Below Measuring Point): 14.09 ft.
Measuring point is 0.0 ft. above land surface.

6. CASING:

Length Diameter
a. Casing Depth (if known): 2.5 ft. 2 in.
b. Casing Removed: ft. in.

7. DISINFECTION: N/A

(Amount of 65%/75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement Sand Cement
Cement lb. Cement lb.
Water gal. Water gal.

Bentonite
Bentonite 680 lb.
Type: Slurry Pellets
Water gal.

Other
Type material
Amount

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Temporary well, installed, sampled then abandoned on same day.

10. WELL DIAGRAM : Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used

11. DATE WELL ABANDONED 7/14/14

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Signature of Ted Miller
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Ted Miller
PRINTED NAME OF PERSON ABANDONING THE WELL

APPENDIX III

**Laboratory Report –
Groundwater Samples**

July 22, 2014

Mr. Roger Smith
S&ME, Inc.
9751 Southern Pine Blvd.
Charlotte, NC 28273

RE: Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

Dear Mr. Smith:

Enclosed are the analytical results for sample(s) received by the laboratory on July 14, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

cc: Roger Smith, S&ME, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92209123001	TW-1	Water	07/14/14 15:40	07/14/14 18:30
92209123002	TW-2	Water	07/14/14 15:55	07/14/14 18:30

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SAMPLE ANALYTE COUNT

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92209123001	TW-1	EPA 6010	JMW	7	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 625	BPJ	58	PASI-C
		EPA 8260	MCK	63	PASI-C
92209123002	TW-2	EPA 6010	JMW	7	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 625	BPJ	58	PASI-C
		EPA 8260	MCK	63	PASI-C

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SUMMARY OF DETECTION

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92209123001	TW-1					
EPA 6010	Barium	8020 ug/L		5.0	07/17/14 18:50	
EPA 6010	Chromium	1700 ug/L		5.0	07/17/14 18:50	
EPA 6010	Lead	28.4 ug/L		5.0	07/17/14 18:50	
EPA 7470	Mercury	<0.20 ug/L		0.20	07/21/14 15:24	
EPA 8260	cis-1,2-Dichloroethene	<1.0 ug/L		1.0	07/17/14 12:45	
EPA 8260	Trichloroethene	<1.0 ug/L		1.0	07/17/14 12:45	
92209123002	TW-2					
EPA 6010	Arsenic	20.9 ug/L		10.0	07/17/14 19:03	
EPA 6010	Barium	619 ug/L		5.0	07/17/14 19:03	
EPA 6010	Chromium	29.9 ug/L		5.0	07/17/14 19:03	
EPA 6010	Lead	58.2 ug/L		5.0	07/17/14 19:03	
EPA 7470	Mercury	0.26 ug/L		0.20	07/21/14 15:32	
EPA 625	Diethylphthalate	<5.0 ug/L		5.0	07/17/14 14:17	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

Sample: TW-1 Lab ID: 92209123001 Collected: 07/14/14 15:40 Received: 07/14/14 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Arsenic	<10.0	ug/L	10.0	2.7	1	07/16/14 17:50	07/17/14 18:50	7440-38-2	
Barium	8020	ug/L	5.0	2.5	1	07/16/14 17:50	07/17/14 18:50	7440-39-3	
Cadmium	<1.0	ug/L	1.0	0.50	1	07/16/14 17:50	07/17/14 18:50	7440-43-9	
Chromium	1700	ug/L	5.0	2.0	1	07/16/14 17:50	07/17/14 18:50	7440-47-3	
Lead	28.4	ug/L	5.0	4.0	1	07/16/14 17:50	07/17/14 18:50	7439-92-1	
Selenium	<10.0	ug/L	10.0	5.0	1	07/16/14 17:50	07/17/14 18:50	7782-49-2	
Silver	<5.0	ug/L	5.0	2.5	1	07/16/14 17:50	07/18/14 14:57	7440-22-4	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	<0.20	ug/L	0.20	0.10	1	07/18/14 15:40	07/21/14 15:24	7439-97-6	
625 MSSV Analytical Method: EPA 625 Preparation Method: EPA 625									
Acenaphthene	<5.0	ug/L	5.0	0.25	1	07/16/14 10:49	07/17/14 13:49	83-32-9	
Acenaphthylene	<5.0	ug/L	5.0	0.21	1	07/16/14 10:49	07/17/14 13:49	208-96-8	
Anthracene	<5.0	ug/L	5.0	0.14	1	07/16/14 10:49	07/17/14 13:49	120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	0.33	1	07/16/14 10:49	07/17/14 13:49	56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	0.30	1	07/16/14 10:49	07/17/14 13:49	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	0.28	1	07/16/14 10:49	07/17/14 13:49	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	0.38	1	07/16/14 10:49	07/17/14 13:49	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	0.43	1	07/16/14 10:49	07/17/14 13:49	207-08-9	
4-Bromophenylphenyl ether	<5.0	ug/L	5.0	0.82	1	07/16/14 10:49	07/17/14 13:49	101-55-3	
Butylbenzylphthalate	<5.0	ug/L	5.0	0.79	1	07/16/14 10:49	07/17/14 13:49	85-68-7	
4-Chloro-3-methylphenol	<5.0	ug/L	5.0	3.7	1	07/16/14 10:49	07/17/14 13:49	59-50-7	
bis(2-Chloroethoxy)methane	<10.0	ug/L	10.0	0.92	1	07/16/14 10:49	07/17/14 13:49	111-91-1	
bis(2-Chloroethyl) ether	<5.0	ug/L	5.0	1.0	1	07/16/14 10:49	07/17/14 13:49	111-44-4	
bis(2-Chloroisopropyl) ether	<5.0	ug/L	5.0	0.95	1	07/16/14 10:49	07/17/14 13:49	108-60-1	
2-Chloronaphthalene	<5.0	ug/L	5.0	0.98	1	07/16/14 10:49	07/17/14 13:49	91-58-7	
2-Chlorophenol	<5.0	ug/L	5.0	1.3	1	07/16/14 10:49	07/17/14 13:49	95-57-8	
4-Chlorophenylphenyl ether	<5.0	ug/L	5.0	0.87	1	07/16/14 10:49	07/17/14 13:49	7005-72-3	
Chrysene	<5.0	ug/L	5.0	0.21	1	07/16/14 10:49	07/17/14 13:49	218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	0.55	1	07/16/14 10:49	07/17/14 13:49	53-70-3	
3,3'-Dichlorobenzidine	<25.0	ug/L	25.0	2.1	1	07/16/14 10:49	07/17/14 13:49	91-94-1	
2,4-Dichlorophenol	<5.0	ug/L	5.0	1.7	1	07/16/14 10:49	07/17/14 13:49	120-83-2	
Diethylphthalate	<5.0	ug/L	5.0	0.58	1	07/16/14 10:49	07/17/14 13:49	84-66-2	
2,4-Dimethylphenol	<10.0	ug/L	10.0	1.2	1	07/16/14 10:49	07/17/14 13:49	105-67-9	
Dimethylphthalate	<5.0	ug/L	5.0	0.76	1	07/16/14 10:49	07/17/14 13:49	131-11-3	
Di-n-butylphthalate	<5.0	ug/L	5.0	0.75	1	07/16/14 10:49	07/17/14 13:49	84-74-2	
4,6-Dinitro-2-methylphenol	<20.0	ug/L	20.0	2.6	1	07/16/14 10:49	07/17/14 13:49	534-52-1	
2,4-Dinitrophenol	<50.0	ug/L	50.0	9.0	1	07/16/14 10:49	07/17/14 13:49	51-28-5	
2,4-Dinitrotoluene	<5.0	ug/L	5.0	0.90	1	07/16/14 10:49	07/17/14 13:49	121-14-2	
2,6-Dinitrotoluene	<5.0	ug/L	5.0	0.98	1	07/16/14 10:49	07/17/14 13:49	606-20-2	
Di-n-octylphthalate	<5.0	ug/L	5.0	0.66	1	07/16/14 10:49	07/17/14 13:49	117-84-0	
bis(2-Ethylhexyl)phthalate	<5.0	ug/L	5.0	0.79	1	07/16/14 10:49	07/17/14 13:49	117-81-7	
Fluoranthene	<5.0	ug/L	5.0	0.21	1	07/16/14 10:49	07/17/14 13:49	206-44-0	
Fluorene	<5.0	ug/L	5.0	0.21	1	07/16/14 10:49	07/17/14 13:49	86-73-7	
Hexachloro-1,3-butadiene	<5.0	ug/L	5.0	0.94	1	07/16/14 10:49	07/17/14 13:49	87-68-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 300-3A N COLLEGE ST

Pace Project No.: 92209123

Sample: TW-1 Lab ID: 92209123001 Collected: 07/14/14 15:40 Received: 07/14/14 18:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
625 MSSV									
Analytical Method: EPA 625 Preparation Method: EPA 625									
Hexachlorobenzene	<5.0 ug/L		5.0	0.72	1	07/16/14 10:49	07/17/14 13:49	118-74-1	
Hexachlorocyclopentadiene	<10.0 ug/L		10.0	0.88	1	07/16/14 10:49	07/17/14 13:49	77-47-4	
Hexachloroethane	<5.0 ug/L		5.0	1.1	1	07/16/14 10:49	07/17/14 13:49	67-72-1	
Indeno(1,2,3-cd)pyrene	<5.0 ug/L		5.0	0.29	1	07/16/14 10:49	07/17/14 13:49	193-39-5	
Isophorone	<10.0 ug/L		10.0	0.89	1	07/16/14 10:49	07/17/14 13:49	78-59-1	
Naphthalene	<5.0 ug/L		5.0	0.34	1	07/16/14 10:49	07/17/14 13:49	91-20-3	
Nitrobenzene	<5.0 ug/L		5.0	1.1	1	07/16/14 10:49	07/17/14 13:49	98-95-3	
2-Nitrophenol	<5.0 ug/L		5.0	0.91	1	07/16/14 10:49	07/17/14 13:49	88-75-5	
4-Nitrophenol	<50.0 ug/L		50.0	4.1	1	07/16/14 10:49	07/17/14 13:49	100-02-7	
N-Nitrosodimethylamine	<5.0 ug/L		5.0	0.91	1	07/16/14 10:49	07/17/14 13:49	62-75-9	
N-Nitroso-di-n-propylamine	<5.0 ug/L		5.0	0.99	1	07/16/14 10:49	07/17/14 13:49	621-64-7	
N-Nitrosodiphenylamine	<10.0 ug/L		10.0	1.0	1	07/16/14 10:49	07/17/14 13:49	86-30-6	
Pentachlorophenol	<10.0 ug/L		10.0	4.6	1	07/16/14 10:49	07/17/14 13:49	87-86-5	
Phenanthrene	<5.0 ug/L		5.0	0.22	1	07/16/14 10:49	07/17/14 13:49	85-01-8	
Phenol	<5.0 ug/L		5.0	1.9	1	07/16/14 10:49	07/17/14 13:49	108-95-2	
Pyrene	<5.0 ug/L		5.0	0.19	1	07/16/14 10:49	07/17/14 13:49	129-00-0	
1,2,4-Trichlorobenzene	<5.0 ug/L		5.0	0.98	1	07/16/14 10:49	07/17/14 13:49	120-82-1	
2,4,6-Trichlorophenol	<10.0 ug/L		10.0	1.3	1	07/16/14 10:49	07/17/14 13:49	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	78 %		10-120		1	07/16/14 10:49	07/17/14 13:49	4165-60-0	
2-Fluorobiphenyl (S)	79 %		15-120		1	07/16/14 10:49	07/17/14 13:49	321-60-8	
Terphenyl-d14 (S)	85 %		11-131		1	07/16/14 10:49	07/17/14 13:49	1718-51-0	
Phenol-d8 (S)	30 %		10-120		1	07/16/14 10:49	07/17/14 13:49	13127-88-3	
2-Fluorophenol (S)	45 %		10-120		1	07/16/14 10:49	07/17/14 13:49	367-12-4	
2,4,6-Tribromophenol (S)	83 %		10-137		1	07/16/14 10:49	07/17/14 13:49	118-79-6	
8260 MSV Low Level									
Analytical Method: EPA 8260									
Acetone	<25.0 ug/L		25.0	10.0	1		07/17/14 12:45	67-64-1	
Benzene	<1.0 ug/L		1.0	0.25	1		07/17/14 12:45	71-43-2	
Bromobenzene	<1.0 ug/L		1.0	0.30	1		07/17/14 12:45	108-86-1	
Bromochloromethane	<1.0 ug/L		1.0	0.17	1		07/17/14 12:45	74-97-5	
Bromodichloromethane	<1.0 ug/L		1.0	0.18	1		07/17/14 12:45	75-27-4	
Bromoform	<1.0 ug/L		1.0	0.26	1		07/17/14 12:45	75-25-2	
Bromomethane	<2.0 ug/L		2.0	0.29	1		07/17/14 12:45	74-83-9	
2-Butanone (MEK)	<5.0 ug/L		5.0	0.96	1		07/17/14 12:45	78-93-3	
Carbon tetrachloride	<1.0 ug/L		1.0	0.25	1		07/17/14 12:45	56-23-5	
Chlorobenzene	<1.0 ug/L		1.0	0.23	1		07/17/14 12:45	108-90-7	
Chloroethane	<1.0 ug/L		1.0	0.54	1		07/17/14 12:45	75-00-3	
Chloroform	<1.0 ug/L		1.0	0.14	1		07/17/14 12:45	67-66-3	
Chloromethane	<1.0 ug/L		1.0	0.11	1		07/17/14 12:45	74-87-3	
2-Chlorotoluene	<1.0 ug/L		1.0	0.35	1		07/17/14 12:45	95-49-8	
4-Chlorotoluene	<1.0 ug/L		1.0	0.31	1		07/17/14 12:45	106-43-4	
1,2-Dibromo-3-chloropropane	<2.0 ug/L		2.0	2.0	1		07/17/14 12:45	96-12-8	
Dibromochloromethane	<1.0 ug/L		1.0	0.21	1		07/17/14 12:45	124-48-1	
1,2-Dibromoethane (EDB)	<1.0 ug/L		1.0	0.27	1		07/17/14 12:45	106-93-4	
Dibromomethane	<1.0 ug/L		1.0	0.21	1		07/17/14 12:45	74-95-3	

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ANALYTICAL RESULTS

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

Sample: TW-1 Lab ID: 92209123001 Collected: 07/14/14 15:40 Received: 07/14/14 18:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level		Analytical Method: EPA 8260							
1,2-Dichlorobenzene	<1.0 ug/L		1.0	0.30	1		07/17/14 12:45	95-50-1	
1,3-Dichlorobenzene	<1.0 ug/L		1.0	0.24	1		07/17/14 12:45	541-73-1	
1,4-Dichlorobenzene	<1.0 ug/L		1.0	0.33	1		07/17/14 12:45	106-46-7	
Dichlorodifluoromethane	<1.0 ug/L		1.0	0.21	1		07/17/14 12:45	75-71-8	
1,1-Dichloroethane	<1.0 ug/L		1.0	0.32	1		07/17/14 12:45	75-34-3	
1,2-Dichloroethane	<1.0 ug/L		1.0	0.12	1		07/17/14 12:45	107-06-2	
1,1-Dichloroethene	<1.0 ug/L		1.0	0.56	1		07/17/14 12:45	75-35-4	
cis-1,2-Dichloroethene	<1.0 ug/L		1.0	0.19	1		07/17/14 12:45	156-59-2	
trans-1,2-Dichloroethene	<1.0 ug/L		1.0	0.49	1		07/17/14 12:45	156-60-5	
1,2-Dichloropropane	<1.0 ug/L		1.0	0.27	1		07/17/14 12:45	78-87-5	
1,3-Dichloropropane	<1.0 ug/L		1.0	0.28	1		07/17/14 12:45	142-28-9	
2,2-Dichloropropane	<1.0 ug/L		1.0	0.13	1		07/17/14 12:45	594-20-7	
1,1-Dichloropropene	<1.0 ug/L		1.0	0.49	1		07/17/14 12:45	563-58-6	
cis-1,3-Dichloropropene	<1.0 ug/L		1.0	0.13	1		07/17/14 12:45	10061-01-5	
trans-1,3-Dichloropropene	<1.0 ug/L		1.0	0.26	1		07/17/14 12:45	10061-02-6	
Diisopropyl ether	<1.0 ug/L		1.0	0.12	1		07/17/14 12:45	108-20-3	
Ethylbenzene	<1.0 ug/L		1.0	0.30	1		07/17/14 12:45	100-41-4	
Hexachloro-1,3-butadiene	<1.0 ug/L		1.0	0.71	1		07/17/14 12:45	87-68-3	
2-Hexanone	<5.0 ug/L		5.0	0.46	1		07/17/14 12:45	591-78-6	
p-Isopropyltoluene	<1.0 ug/L		1.0	0.31	1		07/17/14 12:45	99-87-6	
Methylene Chloride	<2.0 ug/L		2.0	0.97	1		07/17/14 12:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L		5.0	0.33	1		07/17/14 12:45	108-10-1	
Methyl-tert-butyl ether	<1.0 ug/L		1.0	0.21	1		07/17/14 12:45	1634-04-4	
Naphthalene	<1.0 ug/L		1.0	0.24	1		07/17/14 12:45	91-20-3	
Styrene	<1.0 ug/L		1.0	0.26	1		07/17/14 12:45	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0 ug/L		1.0	0.33	1		07/17/14 12:45	630-20-6	
1,1,1,2,2-Tetrachloroethane	<1.0 ug/L		1.0	0.40	1		07/17/14 12:45	79-34-5	
Tetrachloroethene	<1.0 ug/L		1.0	0.46	1		07/17/14 12:45	127-18-4	
Toluene	<1.0 ug/L		1.0	0.26	1		07/17/14 12:45	108-88-3	
1,2,3-Trichlorobenzene	<1.0 ug/L		1.0	0.33	1		07/17/14 12:45	87-61-6	
1,2,4-Trichlorobenzene	<1.0 ug/L		1.0	0.35	1		07/17/14 12:45	120-82-1	
1,1,1-Trichloroethane	<1.0 ug/L		1.0	0.48	1		07/17/14 12:45	71-55-6	
1,1,2-Trichloroethane	<1.0 ug/L		1.0	0.29	1		07/17/14 12:45	79-00-5	
Trichloroethene	<1.0 ug/L		1.0	0.47	1		07/17/14 12:45	79-01-6	
Trichlorofluoromethane	<1.0 ug/L		1.0	0.20	1		07/17/14 12:45	75-69-4	
1,2,3-Trichloropropane	<1.0 ug/L		1.0	0.41	1		07/17/14 12:45	96-18-4	
Vinyl acetate	<2.0 ug/L		2.0	0.35	1		07/17/14 12:45	108-05-4	
Vinyl chloride	<1.0 ug/L		1.0	0.62	1		07/17/14 12:45	75-01-4	
Xylene (Total)	<2.0 ug/L		2.0	0.66	1		07/17/14 12:45	1330-20-7	
m&p-Xylene	<2.0 ug/L		2.0	0.66	1		07/17/14 12:45	179601-23-1	
o-Xylene	<1.0 ug/L		1.0	0.23	1		07/17/14 12:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99 %		70-130		1		07/17/14 12:45	460-00-4	
1,2-Dichloroethane-d4 (S)	97 %		70-130		1		07/17/14 12:45	17060-07-0	
Toluene-d8 (S)	100 %		70-130		1		07/17/14 12:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 300-3A N COLLEGE ST

Pace Project No.: 92209123

Sample: TW-2 Lab ID: 92209123002 Collected: 07/14/14 15:55 Received: 07/14/14 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Arsenic	20.9	ug/L	10.0	2.7	1	07/16/14 17:50	07/17/14 19:03	7440-38-2	
Barium	619	ug/L	5.0	2.5	1	07/16/14 17:50	07/17/14 19:03	7440-39-3	
Cadmium	<1.0	ug/L	1.0	0.50	1	07/16/14 17:50	07/17/14 19:03	7440-43-9	
Chromium	29.9	ug/L	5.0	2.0	1	07/16/14 17:50	07/17/14 19:03	7440-47-3	
Lead	58.2	ug/L	5.0	4.0	1	07/16/14 17:50	07/17/14 19:03	7439-92-1	
Selenium	<10.0	ug/L	10.0	5.0	1	07/16/14 17:50	07/17/14 19:03	7782-49-2	
Silver	<5.0	ug/L	5.0	2.5	1	07/16/14 17:50	07/18/14 15:02	7440-22-4	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.26	ug/L	0.20	0.10	1	07/18/14 15:40	07/21/14 15:32	7439-97-6	
625 MSSV Analytical Method: EPA 625 Preparation Method: EPA 625									
Acenaphthene	<5.0	ug/L	5.0	0.25	1	07/16/14 10:49	07/17/14 14:17	83-32-9	
Acenaphthylene	<5.0	ug/L	5.0	0.21	1	07/16/14 10:49	07/17/14 14:17	208-96-8	
Anthracene	<5.0	ug/L	5.0	0.14	1	07/16/14 10:49	07/17/14 14:17	120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	0.33	1	07/16/14 10:49	07/17/14 14:17	56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	0.30	1	07/16/14 10:49	07/17/14 14:17	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	0.28	1	07/16/14 10:49	07/17/14 14:17	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	0.38	1	07/16/14 10:49	07/17/14 14:17	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	0.43	1	07/16/14 10:49	07/17/14 14:17	207-08-9	
4-Bromophenylphenyl ether	<5.0	ug/L	5.0	0.82	1	07/16/14 10:49	07/17/14 14:17	101-55-3	
Butylbenzylphthalate	<5.0	ug/L	5.0	0.79	1	07/16/14 10:49	07/17/14 14:17	85-68-7	
4-Chloro-3-methylphenol	<5.0	ug/L	5.0	3.7	1	07/16/14 10:49	07/17/14 14:17	59-50-7	
bis(2-Chloroethoxy)methane	<10.0	ug/L	10.0	0.92	1	07/16/14 10:49	07/17/14 14:17	111-91-1	
bis(2-Chloroethyl) ether	<5.0	ug/L	5.0	1.0	1	07/16/14 10:49	07/17/14 14:17	111-44-4	
bis(2-Chloroisopropyl) ether	<5.0	ug/L	5.0	0.95	1	07/16/14 10:49	07/17/14 14:17	108-60-1	
2-Chloronaphthalene	<5.0	ug/L	5.0	0.98	1	07/16/14 10:49	07/17/14 14:17	91-58-7	
2-Chlorophenol	<5.0	ug/L	5.0	1.3	1	07/16/14 10:49	07/17/14 14:17	95-57-8	
4-Chlorophenylphenyl ether	<5.0	ug/L	5.0	0.87	1	07/16/14 10:49	07/17/14 14:17	7005-72-3	
Chrysene	<5.0	ug/L	5.0	0.21	1	07/16/14 10:49	07/17/14 14:17	218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	0.55	1	07/16/14 10:49	07/17/14 14:17	53-70-3	
3,3'-Dichlorobenzidine	<25.0	ug/L	25.0	2.1	1	07/16/14 10:49	07/17/14 14:17	91-94-1	
2,4-Dichlorophenol	<5.0	ug/L	5.0	1.7	1	07/16/14 10:49	07/17/14 14:17	120-83-2	
Diethylphthalate	<5.0	ug/L	5.0	0.58	1	07/16/14 10:49	07/17/14 14:17	84-66-2	
2,4-Dimethylphenol	<10.0	ug/L	10.0	1.2	1	07/16/14 10:49	07/17/14 14:17	105-67-9	
Dimethylphthalate	<5.0	ug/L	5.0	0.76	1	07/16/14 10:49	07/17/14 14:17	131-11-3	
Di-n-butylphthalate	<5.0	ug/L	5.0	0.75	1	07/16/14 10:49	07/17/14 14:17	84-74-2	
4,6-Dinitro-2-methylphenol	<20.0	ug/L	20.0	2.6	1	07/16/14 10:49	07/17/14 14:17	534-52-1	
2,4-Dinitrophenol	<50.0	ug/L	50.0	9.0	1	07/16/14 10:49	07/17/14 14:17	51-28-5	
2,4-Dinitrotoluene	<5.0	ug/L	5.0	0.90	1	07/16/14 10:49	07/17/14 14:17	121-14-2	
2,6-Dinitrotoluene	<5.0	ug/L	5.0	0.98	1	07/16/14 10:49	07/17/14 14:17	606-20-2	
Di-n-octylphthalate	<5.0	ug/L	5.0	0.66	1	07/16/14 10:49	07/17/14 14:17	117-84-0	
bis(2-Ethylhexyl)phthalate	<5.0	ug/L	5.0	0.79	1	07/16/14 10:49	07/17/14 14:17	117-81-7	
Fluoranthene	<5.0	ug/L	5.0	0.21	1	07/16/14 10:49	07/17/14 14:17	206-44-0	
Fluorene	<5.0	ug/L	5.0	0.21	1	07/16/14 10:49	07/17/14 14:17	86-73-7	
Hexachloro-1,3-butadiene	<5.0	ug/L	5.0	0.94	1	07/16/14 10:49	07/17/14 14:17	87-68-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

Sample: TW-2 Lab ID: 92209123002 Collected: 07/14/14 15:55 Received: 07/14/14 18:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
625 MSSV									
Analytical Method: EPA 625 Preparation Method: EPA 625									
Hexachlorobenzene	<5.0 ug/L		5.0	0.72	1	07/16/14 10:49	07/17/14 14:17	118-74-1	
Hexachlorocyclopentadiene	<10.0 ug/L		10.0	0.88	1	07/16/14 10:49	07/17/14 14:17	77-47-4	
Hexachloroethane	<5.0 ug/L		5.0	1.1	1	07/16/14 10:49	07/17/14 14:17	67-72-1	
Indeno(1,2,3-cd)pyrene	<5.0 ug/L		5.0	0.29	1	07/16/14 10:49	07/17/14 14:17	193-39-5	
Isophorone	<10.0 ug/L		10.0	0.89	1	07/16/14 10:49	07/17/14 14:17	78-59-1	
Naphthalene	<5.0 ug/L		5.0	0.34	1	07/16/14 10:49	07/17/14 14:17	91-20-3	
Nitrobenzene	<5.0 ug/L		5.0	1.1	1	07/16/14 10:49	07/17/14 14:17	98-95-3	
2-Nitrophenol	<5.0 ug/L		5.0	0.91	1	07/16/14 10:49	07/17/14 14:17	88-75-5	
4-Nitrophenol	<50.0 ug/L		50.0	4.1	1	07/16/14 10:49	07/17/14 14:17	100-02-7	
N-Nitrosodimethylamine	<5.0 ug/L		5.0	0.91	1	07/16/14 10:49	07/17/14 14:17	62-75-9	
N-Nitroso-di-n-propylamine	<5.0 ug/L		5.0	0.99	1	07/16/14 10:49	07/17/14 14:17	621-64-7	
N-Nitrosodiphenylamine	<10.0 ug/L		10.0	1.0	1	07/16/14 10:49	07/17/14 14:17	86-30-6	
Pentachlorophenol	<10.0 ug/L		10.0	4.6	1	07/16/14 10:49	07/17/14 14:17	87-86-5	
Phenanthrene	<5.0 ug/L		5.0	0.22	1	07/16/14 10:49	07/17/14 14:17	85-01-8	
Phenol	<5.0 ug/L		5.0	1.9	1	07/16/14 10:49	07/17/14 14:17	108-95-2	
Pyrene	<5.0 ug/L		5.0	0.19	1	07/16/14 10:49	07/17/14 14:17	129-00-0	
1,2,4-Trichlorobenzene	<5.0 ug/L		5.0	0.98	1	07/16/14 10:49	07/17/14 14:17	120-82-1	
2,4,6-Trichlorophenol	<10.0 ug/L		10.0	1.3	1	07/16/14 10:49	07/17/14 14:17	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	72 %		10-120		1	07/16/14 10:49	07/17/14 14:17	4165-60-0	
2-Fluorobiphenyl (S)	77 %		15-120		1	07/16/14 10:49	07/17/14 14:17	321-60-8	
Terphenyl-d14 (S)	75 %		11-131		1	07/16/14 10:49	07/17/14 14:17	1718-51-0	
Phenol-d6 (S)	28 %		10-120		1	07/16/14 10:49	07/17/14 14:17	13127-88-3	
2-Fluorophenol (S)	43 %		10-120		1	07/16/14 10:49	07/17/14 14:17	367-12-4	
2,4,6-Tribromophenol (S)	76 %		10-137		1	07/16/14 10:49	07/17/14 14:17	118-79-6	
8260 MSV Low Level									
Analytical Method: EPA 8260									
Acetone	<25.0 ug/L		25.0	10.0	1		07/17/14 13:02	67-64-1	
Benzene	<1.0 ug/L		1.0	0.25	1		07/17/14 13:02	71-43-2	
Bromobenzene	<1.0 ug/L		1.0	0.30	1		07/17/14 13:02	108-86-1	
Bromochloromethane	<1.0 ug/L		1.0	0.17	1		07/17/14 13:02	74-97-5	
Bromodichloromethane	<1.0 ug/L		1.0	0.18	1		07/17/14 13:02	75-27-4	
Bromoform	<1.0 ug/L		1.0	0.26	1		07/17/14 13:02	75-25-2	
Bromomethane	<2.0 ug/L		2.0	0.29	1		07/17/14 13:02	74-83-9	
2-Butanone (MEK)	<5.0 ug/L		5.0	0.96	1		07/17/14 13:02	78-93-3	
Carbon tetrachloride	<1.0 ug/L		1.0	0.25	1		07/17/14 13:02	56-23-5	
Chlorobenzene	<1.0 ug/L		1.0	0.23	1		07/17/14 13:02	108-90-7	
Chloroethane	<1.0 ug/L		1.0	0.54	1		07/17/14 13:02	75-00-3	
Chloroform	<1.0 ug/L		1.0	0.14	1		07/17/14 13:02	67-66-3	
Chloromethane	<1.0 ug/L		1.0	0.11	1		07/17/14 13:02	74-87-3	
2-Chlorotoluene	<1.0 ug/L		1.0	0.35	1		07/17/14 13:02	95-49-8	
4-Chlorotoluene	<1.0 ug/L		1.0	0.31	1		07/17/14 13:02	106-43-4	
1,2-Dibromo-3-chloropropane	<2.0 ug/L		2.0	2.0	1		07/17/14 13:02	96-12-8	
Dibromochloromethane	<1.0 ug/L		1.0	0.21	1		07/17/14 13:02	124-48-1	
1,2-Dibromoethane (EDB)	<1.0 ug/L		1.0	0.27	1		07/17/14 13:02	106-93-4	
Dibromomethane	<1.0 ug/L		1.0	0.21	1		07/17/14 13:02	74-95-3	

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ANALYTICAL RESULTS

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

Sample: TW-2 Lab ID: 92209123002 Collected: 07/14/14 15:55 Received: 07/14/14 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260							
1,2-Dichlorobenzene	<1.0 ug/L		1.0	0.30	1		07/17/14 13:02	95-50-1	
1,3-Dichlorobenzene	<1.0 ug/L		1.0	0.24	1		07/17/14 13:02	541-73-1	
1,4-Dichlorobenzene	<1.0 ug/L		1.0	0.33	1		07/17/14 13:02	106-46-7	
Dichlorodifluoromethane	<1.0 ug/L		1.0	0.21	1		07/17/14 13:02	75-71-8	
1,1-Dichloroethane	<1.0 ug/L		1.0	0.32	1		07/17/14 13:02	75-34-3	
1,2-Dichloroethane	<1.0 ug/L		1.0	0.12	1		07/17/14 13:02	107-06-2	
1,1-Dichloroethene	<1.0 ug/L		1.0	0.56	1		07/17/14 13:02	75-35-4	
cis-1,2-Dichloroethene	<1.0 ug/L		1.0	0.19	1		07/17/14 13:02	156-59-2	
trans-1,2-Dichloroethene	<1.0 ug/L		1.0	0.49	1		07/17/14 13:02	156-60-5	
1,2-Dichloropropane	<1.0 ug/L		1.0	0.27	1		07/17/14 13:02	78-87-5	
1,3-Dichloropropane	<1.0 ug/L		1.0	0.28	1		07/17/14 13:02	142-28-9	
2,2-Dichloropropane	<1.0 ug/L		1.0	0.13	1		07/17/14 13:02	594-20-7	
1,1-Dichloropropene	<1.0 ug/L		1.0	0.49	1		07/17/14 13:02	563-58-6	
cis-1,3-Dichloropropene	<1.0 ug/L		1.0	0.13	1		07/17/14 13:02	10061-01-5	
trans-1,3-Dichloropropene	<1.0 ug/L		1.0	0.26	1		07/17/14 13:02	10061-02-6	
Diisopropyl ether	<1.0 ug/L		1.0	0.12	1		07/17/14 13:02	108-20-3	
Ethylbenzene	<1.0 ug/L		1.0	0.30	1		07/17/14 13:02	100-41-4	
Hexachloro-1,3-butadiene	<1.0 ug/L		1.0	0.71	1		07/17/14 13:02	87-68-3	
2-Hexanone	<5.0 ug/L		5.0	0.46	1		07/17/14 13:02	591-78-6	
p-isopropyltoluene	<1.0 ug/L		1.0	0.31	1		07/17/14 13:02	99-87-6	
Methylene Chloride	<2.0 ug/L		2.0	0.97	1		07/17/14 13:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L		5.0	0.33	1		07/17/14 13:02	108-10-1	
Methyl-tert-butyl ether	<1.0 ug/L		1.0	0.21	1		07/17/14 13:02	1634-04-4	
Naphthalene	<1.0 ug/L		1.0	0.24	1		07/17/14 13:02	91-20-3	
Styrene	<1.0 ug/L		1.0	0.26	1		07/17/14 13:02	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0 ug/L		1.0	0.33	1		07/17/14 13:02	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0 ug/L		1.0	0.40	1		07/17/14 13:02	79-34-5	
Tetrachloroethene	<1.0 ug/L		1.0	0.46	1		07/17/14 13:02	127-18-4	
Toluene	<1.0 ug/L		1.0	0.26	1		07/17/14 13:02	108-88-3	
1,2,3-Trichlorobenzene	<1.0 ug/L		1.0	0.33	1		07/17/14 13:02	87-61-6	
1,2,4-Trichlorobenzene	<1.0 ug/L		1.0	0.35	1		07/17/14 13:02	120-82-1	
1,1,1-Trichloroethane	<1.0 ug/L		1.0	0.48	1		07/17/14 13:02	71-55-6	
1,1,2-Trichloroethane	<1.0 ug/L		1.0	0.29	1		07/17/14 13:02	79-00-5	
Trichloroethene	<1.0 ug/L		1.0	0.47	1		07/17/14 13:02	79-01-6	
Trichlorofluoromethane	<1.0 ug/L		1.0	0.20	1		07/17/14 13:02	75-69-4	
1,2,3-Trichloropropane	<1.0 ug/L		1.0	0.41	1		07/17/14 13:02	96-18-4	
Vinyl acetate	<2.0 ug/L		2.0	0.35	1		07/17/14 13:02	108-05-4	
Vinyl chloride	<1.0 ug/L		1.0	0.62	1		07/17/14 13:02	75-01-4	
Xylene (Total)	<2.0 ug/L		2.0	0.66	1		07/17/14 13:02	1330-20-7	
m&p-Xylene	<2.0 ug/L		2.0	0.66	1		07/17/14 13:02	179601-23-1	
o-Xylene	<1.0 ug/L		1.0	0.23	1		07/17/14 13:02	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97 %		70-130		1		07/17/14 13:02	460-00-4	
1,2-Dichloroethane-d4 (S)	102 %		70-130		1		07/17/14 13:02	17060-07-0	
Toluene-d8 (S)	100 %		70-130		1		07/17/14 13:02	2037-26-5	

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

QC Batch: MERP/6868 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92209123001, 92209123002

METHOD BLANK: 1245021 Matrix: Water
Associated Lab Samples: 92209123001, 92209123002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	07/21/14 15:11	

LABORATORY CONTROL SAMPLE: 1245022

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.7	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1245023 1245024

Parameter	Units	1245023		1245024		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Mercury	ug/L	<0.20	2.5	2.5	2.7	99	99	75-125	0	25

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

QC Batch: MPRP/16462 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 92209123001, 92209123002

METHOD BLANK: 1243393 Matrix: Water
Associated Lab Samples: 92209123001, 92209123002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<10.0	10.0	07/18/14 14:24	
Barium	ug/L	<5.0	5.0	07/18/14 14:24	
Cadmium	ug/L	<1.0	1.0	07/18/14 14:24	
Chromium	ug/L	<5.0	5.0	07/18/14 14:24	
Lead	ug/L	<5.0	5.0	07/18/14 14:24	
Selenium	ug/L	<10.0	10.0	07/18/14 14:24	
Silver	ug/L	<5.0	5.0	07/18/14 14:24	

LABORATORY CONTROL SAMPLE: 1243394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	499	100	80-120	
Barium	ug/L	500	516	103	80-120	
Cadmium	ug/L	500	512	102	80-120	
Chromium	ug/L	500	515	103	80-120	
Lead	ug/L	500	516	103	80-120	
Selenium	ug/L	500	504	101	80-120	
Silver	ug/L	250	255	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1243395 1243396

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		92209000001 Result	Spike Conc.	MSD Spike Conc.	MS Result						MSD Result
Arsenic	ug/L	ND	500	500	522	503	104	100	75-125	4	20
Barium	ug/L	587	500	500	1100	1060	103	94	75-125	4	20
Cadmium	ug/L	ND	500	500	500	491	100	98	75-125	2	20
Chromium	ug/L	ND	500	500	511	473	102	95	75-125	8	20
Lead	ug/L	ND	500	500	496	485	99	97	75-125	2	20
Selenium	ug/L	ND	500	500	517	491	103	98	75-125	5	20
Silver	ug/L	ND	250	250	258	248	103	99	75-125	4	20

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

QC Batch: MSV/27584 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92209123001, 92209123002

METHOD BLANK: 1243831 Matrix: Water
Associated Lab Samples: 92209123001, 92209123002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	07/17/14 11:25	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	07/17/14 11:25	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	07/17/14 11:25	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	07/17/14 11:25	
1,1-Dichloroethane	ug/L	<1.0	1.0	07/17/14 11:25	
1,1-Dichloroethene	ug/L	<1.0	1.0	07/17/14 11:25	
1,1-Dichloropropene	ug/L	<1.0	1.0	07/17/14 11:25	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	07/17/14 11:25	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	07/17/14 11:25	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	07/17/14 11:25	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	2.0	07/17/14 11:25	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	07/17/14 11:25	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	07/17/14 11:25	
1,2-Dichloroethane	ug/L	<1.0	1.0	07/17/14 11:25	
1,2-Dichloropropane	ug/L	<1.0	1.0	07/17/14 11:25	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	07/17/14 11:25	
1,3-Dichloropropane	ug/L	<1.0	1.0	07/17/14 11:25	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	07/17/14 11:25	
2,2-Dichloropropane	ug/L	<1.0	1.0	07/17/14 11:25	
2-Butanone (MEK)	ug/L	<5.0	5.0	07/17/14 11:25	
2-Chlorotoluene	ug/L	<1.0	1.0	07/17/14 11:25	
2-Hexanone	ug/L	<5.0	5.0	07/17/14 11:25	
4-Chlorotoluene	ug/L	<1.0	1.0	07/17/14 11:25	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	07/17/14 11:25	
Acetone	ug/L	<25.0	25.0	07/17/14 11:25	
Benzene	ug/L	<1.0	1.0	07/17/14 11:25	
Bromobenzene	ug/L	<1.0	1.0	07/17/14 11:25	
Bromochloromethane	ug/L	<1.0	1.0	07/17/14 11:25	
Bromodichloromethane	ug/L	<1.0	1.0	07/17/14 11:25	
Bromoform	ug/L	<1.0	1.0	07/17/14 11:25	
Bromomethane	ug/L	<2.0	2.0	07/17/14 11:25	
Carbon tetrachloride	ug/L	<1.0	1.0	07/17/14 11:25	
Chlorobenzene	ug/L	<1.0	1.0	07/17/14 11:25	
Chloroethane	ug/L	<1.0	1.0	07/17/14 11:25	
Chloroform	ug/L	<1.0	1.0	07/17/14 11:25	
Chloromethane	ug/L	<1.0	1.0	07/17/14 11:25	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	07/17/14 11:25	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	07/17/14 11:25	
Dibromochloromethane	ug/L	<1.0	1.0	07/17/14 11:25	
Dibromomethane	ug/L	<1.0	1.0	07/17/14 11:25	
Dichlorodifluoromethane	ug/L	<1.0	1.0	07/17/14 11:25	

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

METHOD BLANK: 1243831 Matrix: Water
Associated Lab Samples: 92209123001, 92209123002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<1.0	1.0	07/17/14 11:25	
Ethylbenzene	ug/L	<1.0	1.0	07/17/14 11:25	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	07/17/14 11:25	
m&p-Xylene	ug/L	<2.0	2.0	07/17/14 11:25	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	07/17/14 11:25	
Methylene Chloride	ug/L	<2.0	2.0	07/17/14 11:25	
Naphthalene	ug/L	<1.0	1.0	07/17/14 11:25	
o-Xylene	ug/L	<1.0	1.0	07/17/14 11:25	
p-Isopropyltoluene	ug/L	<1.0	1.0	07/17/14 11:25	
Styrene	ug/L	<1.0	1.0	07/17/14 11:25	
Tetrachloroethene	ug/L	<1.0	1.0	07/17/14 11:25	
Toluene	ug/L	<1.0	1.0	07/17/14 11:25	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	07/17/14 11:25	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	07/17/14 11:25	
Trichloroethene	ug/L	<1.0	1.0	07/17/14 11:25	
Trichlorofluoromethane	ug/L	<1.0	1.0	07/17/14 11:25	
Vinyl acetate	ug/L	<2.0	2.0	07/17/14 11:25	
Vinyl chloride	ug/L	<1.0	1.0	07/17/14 11:25	
Xylene (Total)	ug/L	<2.0	2.0	07/17/14 11:25	
1,2-Dichloroethane-d4 (S)	%	102	70-130	07/17/14 11:25	
4-Bromofluorobenzene (S)	%	99	70-130	07/17/14 11:25	
Toluene-d8 (S)	%	100	70-130	07/17/14 11:25	

LABORATORY CONTROL SAMPLE: 1243832

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.5	109	70-130	
1,1,1-Trichloroethane	ug/L	50	51.7	103	70-130	
1,1,1,2-Tetrachloroethane	ug/L	50	53.0	106	70-130	
1,1,2-Trichloroethane	ug/L	50	53.1	106	70-130	
1,1-Dichloroethane	ug/L	50	48.6	97	70-130	
1,1-Dichloroethene	ug/L	50	53.6	107	70-132	
1,1-Dichloropropene	ug/L	50	56.0	112	70-130	
1,2,3-Trichlorobenzene	ug/L	50	72.6	145	70-135 L3	
1,2,3-Trichloropropane	ug/L	50	51.6	103	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.1	100	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	55.7	111	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.6	105	70-130	
1,2-Dichlorobenzene	ug/L	50	51.4	103	70-130	
1,2-Dichloroethane	ug/L	50	51.6	103	70-130	
1,2-Dichloropropane	ug/L	50	51.1	102	70-130	
1,3-Dichlorobenzene	ug/L	50	50.2	100	70-130	
1,3-Dichloropropane	ug/L	50	53.4	107	70-130	
1,4-Dichlorobenzene	ug/L	50	51.6	103	70-130	

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

LABORATORY CONTROL SAMPLE: 1243832

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	42.3	85	58-145	
2-Butanone (MEK)	ug/L	100	102	102	70-145	
2-Chlorotoluene	ug/L	50	49.3	99	70-130	
2-Hexanone	ug/L	100	101	101	70-144	
4-Chlorotoluene	ug/L	50	49.6	99	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.0	99	70-140	
Acetone	ug/L	100	87.5	88	50-175	
Benzene	ug/L	50	50.2	100	70-130	
Bromobenzene	ug/L	50	50.9	102	70-130	
Bromochloromethane	ug/L	50	51.6	103	70-130	
Bromodichloromethane	ug/L	50	59.4	119	70-130	
Bromodichloromethane	ug/L	50	50.6	101	70-130	
Bromoform	ug/L	50	42.3	85	54-130	
Bromomethane	ug/L	50	56.7	113	70-132	
Carbon tetrachloride	ug/L	50	48.5	97	70-130	
Chlorobenzene	ug/L	50	38.1	76	64-134	
Chloroethane	ug/L	50	54.6	109	70-130	
Chloroform	ug/L	50	36.4	73	64-130	
Chloromethane	ug/L	50	52.6	105	70-131	
cis-1,2-Dichloroethene	ug/L	50	53.4	107	70-130	
cis-1,3-Dichloropropene	ug/L	50	53.9	108	70-130	
Dibromochloromethane	ug/L	50	52.3	105	70-131	
Dibromomethane	ug/L	50	47.7	95	56-130	
Dichlorodifluoromethane	ug/L	50	51.6	103	70-130	
Diisopropyl ether	ug/L	50	50.7	101	70-130	
Ethylbenzene	ug/L	50	53.5	107	70-130	
Hexachloro-1,3-butadiene	ug/L	100	102	102	70-130	
m&p-Xylene	ug/L	50	49.9	100	70-130	
Methyl-tert-butyl ether	ug/L	50	54.5	109	63-130	
Methylene Chloride	ug/L	50	56.8	114	70-138	
Naphthalene	ug/L	50	51.6	103	70-130	
o-Xylene	ug/L	50	53.2	106	70-130	
p-isopropyltoluene	ug/L	50	54.2	108	70-130	
Styrene	ug/L	50	52.6	105	70-130	
Tetrachloroethene	ug/L	50	50.4	101	70-130	
Toluene	ug/L	50	53.0	106	70-130	
trans-1,2-Dichloroethene	ug/L	50	52.0	104	70-132	
trans-1,3-Dichloropropene	ug/L	50	52.0	104	70-130	
Trichloroethene	ug/L	50	52.0	104	62-133	
Trichlorofluoromethane	ug/L	100	106	106	66-157	
Vinyl acetate	ug/L	50	52.2	104	50-150	
Vinyl chloride	ug/L	150	153	102	70-130	
Xylene (Total)	ug/L			99	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%					

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1243833			1243834			MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
	92208950006 Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
1,1-Dichloroethene	ug/L	ND	50	50	47.1	47.6	94	95	70-166	1	30	
Benzene	ug/L	ND	50	50	45.4	43.6	90	86	70-148	4	30	
Chlorobenzene	ug/L	ND	50	50	54.7	51.7	109	103	70-146	6	30	
Toluene	ug/L	ND	50	50	46.0	43.6	92	87	70-155	6	30	
Trichloroethene	ug/L	ND	50	50	50.3	47.6	101	95	69-151	5	30	
1,2-Dichloroethane-d4 (S)	%						110	114	70-130			
4-Bromofluorobenzene (S)	%						95	92	70-130			
Toluene-d8 (S)	%						96	95	70-130			

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

QC Batch: OEXT/28854 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 92209123001, 92209123002

METHOD BLANK: 1242468 Matrix: Water
Associated Lab Samples: 92209123001, 92209123002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	<5.0	5.0	07/17/14 03:26	
2,4,6-Trichlorophenol	ug/L	<10.0	10.0	07/17/14 03:26	
2,4-Dichlorophenol	ug/L	<5.0	5.0	07/17/14 03:26	
2,4-Dimethylphenol	ug/L	<10.0	10.0	07/17/14 03:26	
2,4-Dinitrophenol	ug/L	<50.0	50.0	07/17/14 03:26	
2,4-Dinitrotoluene	ug/L	<5.0	5.0	07/17/14 03:26	
2,6-Dinitrotoluene	ug/L	<5.0	5.0	07/17/14 03:26	
2-Chloronaphthalene	ug/L	<5.0	5.0	07/17/14 03:26	
2-Chlorophenol	ug/L	<5.0	5.0	07/17/14 03:26	
2-Nitrophenol	ug/L	<5.0	5.0	07/17/14 03:26	
3,3'-Dichlorobenzidine	ug/L	<25.0	25.0	07/17/14 03:26	
4,6-Dinitro-2-methylphenol	ug/L	<20.0	20.0	07/17/14 03:26	
4-Bromophenylphenyl ether	ug/L	<5.0	5.0	07/17/14 03:26	
4-Chloro-3-methylphenol	ug/L	<5.0	5.0	07/17/14 03:26	
4-Chlorophenylphenyl ether	ug/L	<5.0	5.0	07/17/14 03:26	
4-Nitrophenol	ug/L	<50.0	50.0	07/17/14 03:26	
Acenaphthene	ug/L	<5.0	5.0	07/17/14 03:26	
Acenaphthylene	ug/L	<5.0	5.0	07/17/14 03:26	
Anthracene	ug/L	<5.0	5.0	07/17/14 03:26	
Benzo(a)anthracene	ug/L	<5.0	5.0	07/17/14 03:26	
Benzo(a)pyrene	ug/L	<5.0	5.0	07/17/14 03:26	
Benzo(b)fluoranthene	ug/L	<5.0	5.0	07/17/14 03:26	
Benzo(g,h,i)perylene	ug/L	<5.0	5.0	07/17/14 03:26	
Benzo(k)fluoranthene	ug/L	<5.0	5.0	07/17/14 03:26	
bis(2-Chloroethoxy)methane	ug/L	<10.0	10.0	07/17/14 03:26	
bis(2-Chloroethyl) ether	ug/L	<5.0	5.0	07/17/14 03:26	
bis(2-Chloroisopropyl) ether	ug/L	<5.0	5.0	07/17/14 03:26	
bis(2-Ethylhexyl)phthalate	ug/L	<5.0	5.0	07/17/14 03:26	
Butylbenzylphthalate	ug/L	<5.0	5.0	07/17/14 03:26	
Chrysene	ug/L	<5.0	5.0	07/17/14 03:26	
Di-n-butylphthalate	ug/L	<5.0	5.0	07/17/14 03:26	
Di-n-octylphthalate	ug/L	<5.0	5.0	07/17/14 03:26	
Dibenz(a,h)anthracene	ug/L	<5.0	5.0	07/17/14 03:26	
Diethylphthalate	ug/L	<5.0	5.0	07/17/14 03:26	
Dimethylphthalate	ug/L	<5.0	5.0	07/17/14 03:26	
Fluoranthene	ug/L	<5.0	5.0	07/17/14 03:26	
Fluorene	ug/L	<5.0	5.0	07/17/14 03:26	
Hexachloro-1,3-butadiene	ug/L	<5.0	5.0	07/17/14 03:26	
Hexachlorobenzene	ug/L	<5.0	5.0	07/17/14 03:26	
Hexachlorocyclopentadiene	ug/L	<10.0	10.0	07/17/14 03:26	
Hexachloroethane	ug/L	<5.0	5.0	07/17/14 03:26	

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST

Pace Project No.: 92209123

METHOD BLANK: 1242468

Matrix: Water

Associated Lab Samples: 92209123001, 92209123002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/L	<5.0	5.0	07/17/14 03:26	
Isophorone	ug/L	<10.0	10.0	07/17/14 03:26	
N-Nitroso-di-n-propylamine	ug/L	<5.0	5.0	07/17/14 03:26	
N-Nitrosodimethylamine	ug/L	<5.0	5.0	07/17/14 03:26	
N-Nitrosodiphenylamine	ug/L	<10.0	10.0	07/17/14 03:26	
Naphthalene	ug/L	<5.0	5.0	07/17/14 03:26	
Nitrobenzene	ug/L	<5.0	5.0	07/17/14 03:26	
Pentachlorophenol	ug/L	<10.0	10.0	07/17/14 03:26	
Phenanthrene	ug/L	<5.0	5.0	07/17/14 03:26	
Phenol	ug/L	<5.0	5.0	07/17/14 03:26	
Pyrene	ug/L	<5.0	5.0	07/17/14 03:26	
2,4,6-Tribromophenol (S)	%	66	10-137	07/17/14 03:26	
2-Fluorobiphenyl (S)	%	63	15-120	07/17/14 03:26	
2-Fluorophenol (S)	%	36	10-120	07/17/14 03:26	
Nitrobenzene-d5 (S)	%	61	10-120	07/17/14 03:26	
Phenol-d6 (S)	%	24	10-120	07/17/14 03:26	
Terphenyl-d14 (S)	%	70	11-131	07/17/14 03:26	

LABORATORY CONTROL SAMPLE: 1242469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	32.6	65	44-142	
2,4,6-Trichlorophenol	ug/L	50	36.8	74	37-144	
2,4-Dichlorophenol	ug/L	50	36.9	74	1-191	
2,4-Dimethylphenol	ug/L	50	37.9	76	32-119	
2,4-Dinitrophenol	ug/L	250	166	67	1-181	
2,4-Dinitrotoluene	ug/L	50	42.3	85	39-139	
2,6-Dinitrotoluene	ug/L	50	41.7	83	50-158	
2-Chloronaphthalene	ug/L	50	33.1	66	60-118	
2-Chlorophenol	ug/L	50	34.7	69	23-134	
2-Nitrophenol	ug/L	50	37.1	74	29-182	
3,3'-Dichlorobenzidine	ug/L	100	80.4	80	1-262	
4,6-Dinitro-2-methylphenol	ug/L	100	72.4	72	1-181	
4-Bromophenylphenyl ether	ug/L	50	39.6	79	53-127	
4-Chloro-3-methylphenol	ug/L	100	73.3	73	22-147	
4-Chlorophenylphenyl ether	ug/L	50	40.7	81	25-158	
4-Nitrophenol	ug/L	250	93.0	37	1-132	
Acenaphthene	ug/L	50	36.2	72	47-145	
Acenaphthylene	ug/L	50	36.3	73	33-145	
Anthracene	ug/L	50	39.5	79	1-166	
Benzo(a)anthracene	ug/L	50	39.2	78	33-143	
Benzo(a)pyrene	ug/L	50	38.8	78	17-163	
Benzo(b)fluoranthene	ug/L	50	39.4	79	24-159	
Benzo(g,h,i)perylene	ug/L	50	35.1	70	1-219	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

LABORATORY CONTROL SAMPLE: 1242469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzo(k)fluoranthene	ug/L	50	36.9	74	11-162	
bis(2-Chloroethoxy)methane	ug/L	50	35.0	70	33-184	
bis(2-Chloroethyl) ether	ug/L	50	35.8	72	12-158	
bis(2-Chloroisopropyl) ether	ug/L	50	35.1	70	36-166	
bis(2-Ethylhexyl)phthalate	ug/L	50	40.6	81	8-158	
Butylbenzylphthalate	ug/L	50	41.3	83	1-152	
Chrysene	ug/L	50	38.4	77	17-168	
Di-n-butylphthalate	ug/L	50	43.9	88	1-118	
Di-n-octylphthalate	ug/L	50	43.5	87	4-146	
Dibenz(a,h)anthracene	ug/L	50	37.3	75	1-227	
Diethylphthalate	ug/L	50	42.5	85	1-114	
Dimethylphthalate	ug/L	50	40.1	80	1-112	
Fluoranthene	ug/L	50	42.3	85	26-137	
Fluorene	ug/L	50	40.8	82	59-121	
Hexachloro-1,3-butadiene	ug/L	50	31.6	63	24-116	
Hexachlorobenzene	ug/L	50	36.3	73	1-152	
Hexachlorocyclopentadiene	ug/L	50	30.6	61	25-150	
Hexachloroethane	ug/L	50	31.5	63	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	29.2	58	1-171	
Isophorone	ug/L	50	37.8	76	21-196	
N-Nitroso-di-n-propylamine	ug/L	50	37.6	75	1-230	
N-Nitrosodimethylamine	ug/L	50	21.6	43	25-150	
N-Nitrosodiphenylamine	ug/L	50	38.0	76	25-150	
Naphthalene	ug/L	50	34.1	68	21-133	
Nitrobenzene	ug/L	50	35.3	71	35-180	
Pentachlorophenol	ug/L	100	77.8	78	14-176	
Phenanthrene	ug/L	50	37.6	75	54-120	
Phenol	ug/L	50	17.3	35	5-112	
Pyrene	ug/L	50	37.0	74	52-115	
2,4,6-Tribromophenol (S)	%			79	10-137	
2-Fluorobiphenyl (S)	%			70	15-120	
2-Fluorophenol (S)	%			41	10-120	
Nitrobenzene-d5 (S)	%			69	10-120	
Phenol-d6 (S)	%			29	10-120	
Terphenyl-d14 (S)	%			76	11-131	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1242643 1242644

Parameter	Units	92209089002		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.							
1,2,4-Trichlorobenzene	ug/L	ND	100	100	100	68.5	66.7	69	67	44-142	3	30
2,4,6-Trichlorophenol	ug/L	ND	100	100	100	75.3	73.1	75	73	37-144	3	30
2,4-Dichlorophenol	ug/L	ND	100	100	100	72.3	79.1	72	79	1-191	9	30
2,4-Dimethylphenol	ug/L	ND	100	100	100	78.1	82.9	78	83	32-119	6	30
2,4-Dinitrophenol	ug/L	ND	500	500	500	313	352	63	70	1-181	12	30

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

Parameter	1242643		MSD		1242644		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
2,4-Dinitrotoluene	ug/L	ND	100	100	78.6	82.2	79	82	39-139	5	30
2,6-Dinitrotoluene	ug/L	ND	100	100	81.6	80.7	82	81	50-158	1	30
2-Chloronaphthalene	ug/L	ND	100	100	70.1	65.5	70	65	60-118	7	30
2-Chlorophenol	ug/L	ND	100	100	70.8	72.9	71	73	23-134	3	30
2-Nitrophenol	ug/L	ND	100	100	74.7	75.2	75	75	29-182	1	30
3,3'-Dichlorobenzidine	ug/L	ND	200	200	160	161	79	80	1-262	1	30
4,6-Dinitro-2-methylphenol	ug/L	ND	200	200	140	141	70	70	1-181	1	30
4-Bromophenylphenyl ether	ug/L	ND	100	100	78.8	76.3	79	76	53-127	3	30
4-Chloro-3-methylphenol	ug/L	ND	200	200	145	169	73	84	22-147	15	30
4-Chlorophenylphenyl ether	ug/L	ND	100	100	78.7	80.1	79	80	25-158	2	30
4-Nitrophenol	ug/L	ND	500	500	247	278	49	56	1-132	12	30
Acenaphthene	ug/L	ND	100	100	74.1	72.4	74	72	47-145	2	30
Acenaphthylene	ug/L	ND	100	100	74.5	72.0	74	72	33-145	3	30
Anthracene	ug/L	ND	100	100	77.6	75.6	78	76	1-166	3	30
Benzo(a)anthracene	ug/L	ND	100	100	77.0	75.5	76	74	33-143	2	30
Benzo(a)pyrene	ug/L	ND	100	100	76.3	75.3	75	74	17-163	1	30
Benzo(b)fluoranthene	ug/L	ND	100	100	79.4	77.4	78	76	24-159	3	30
Benzo(g,h,i)perylene	ug/L	ND	100	100	68.6	67.3	69	67	1-219	2	30
Benzo(k)fluoranthene	ug/L	ND	100	100	71.3	69.4	70	68	11-162	3	30
bis(2-Chloroethoxy)methane	ug/L	ND	100	100	70.8	72.2	71	72	33-184	2	30
bis(2-Chloroethyl) ether	ug/L	ND	100	100	72.0	71.2	72	71	12-158	1	30
bis(2-Chloroisopropyl) ether	ug/L	ND	100	100	69.7	71.3	70	71	36-166	2	30
bis(2-Ethylhexyl)phthalate	ug/L	ND	100	100	81.4	83.9	78	81	8-158	3	30
Butylbenzylphthalate	ug/L	ND	100	100	79.8	76.6	80	77	1-152	4	30
Chrysene	ug/L	ND	100	100	77.1	74.6	76	73	17-168	3	30
Di-n-butylphthalate	ug/L	ND	100	100	83.7	83.4	84	83	1-118	0	30
Di-n-octylphthalate	ug/L	ND	100	100	83.6	82.4	82	81	4-146	1	30
Dibenz(a,h)anthracene	ug/L	ND	100	100	72.8	71.2	73	71	1-227	2	30
Diethylphthalate	ug/L	ND	100	100	79.0	82.3	79	82	1-114	4	30
Dimethylphthalate	ug/L	ND	100	100	78.3	79.7	78	80	1-112	2	30
Fluoranthene	ug/L	ND	100	100	82.5	81.3	82	81	26-137	1	30
Fluorene	ug/L	ND	100	100	78.6	79.9	79	80	59-121	2	30
Hexachloro-1,3-butadiene	ug/L	ND	100	100	69.5	67.1	70	67	24-116	4	30
Hexachlorobenzene	ug/L	ND	100	100	72.0	69.1	72	69	1-152	4	30
Hexachlorocyclopentadiene	ug/L	ND	100	100	72.2	59.7	72	60	25-150	19	30
Hexachloroethane	ug/L	ND	100	100	66.7	64.8	67	65	40-113	3	30
Indeno(1,2,3-cd)pyrene	ug/L	ND	100	100	57.5	55.8	58	56	1-171	3	30
Isophorone	ug/L	ND	100	100	73.3	78.5	73	79	21-196	7	30
N-Nitroso-di-n-propylamine	ug/L	ND	100	100	76.6	83.8	77	84	1-230	9	30
N-Nitrosodimethylamine	ug/L	ND	100	100	55.5	52.1	55	52	25-150	6	30
N-Nitrosodiphenylamine	ug/L	ND	100	100	77.1	73.2	77	73	25-150	5	30
Naphthalene	ug/L	ND	100	100	70.1	69.6	70	70	21-133	1	30
Nitrobenzene	ug/L	ND	100	100	68.5	67.7	68	68	35-180	1	30
Pentachlorophenol	ug/L	ND	200	200	149	157	74	78	14-176	5	30
Phenanthrene	ug/L	ND	100	100	73.6	71.5	74	72	54-120	3	30
Phenol	ug/L	ND	100	100	47.0	49.3	47	49	5-112	5	30

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

Parameter	Units	1242643		1242644		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92209089002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Pyrene	ug/L	ND	100	100	71.7	66.5		72	67	52-115	7	30	
2,4,6-Tribromophenol (S)	%							79	77	10-137			
2-Fluorobiphenyl (S)	%							73	67	15-120			
2-Fluorophenol (S)	%							52	49	10-120			
Nitrobenzene-d5 (S)	%							69	66	10-120			
Phenol-d6 (S)	%							42	42	10-120			
Terphenyl-d14 (S)	%							74	67	11-131			

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QUALIFIERS

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

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.

PQL - Practical Quantitation Limit.

RL - Reporting 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.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209123

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92209123001	TW-1	EPA 3010	MPRP/16462	EPA 6010	ICP/14866
92209123002	TW-2	EPA 3010	MPRP/16462	EPA 6010	ICP/14866
92209123001	TW-1	EPA 7470	MERP/6868	EPA 7470	MERC/6616
92209123002	TW-2	EPA 7470	MERP/6868	EPA 7470	MERC/6616
92209123001	TW-1	EPA 625	OEXT/28854	EPA 625	MSSV/9401
92209123002	TW-2	EPA 625	OEXT/28854	EPA 625	MSSV/9401
92209123001	TW-1	EPA 8260	MSV/27584		
92209123002	TW-2	EPA 8260	MSV/27584		

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Document Name: **Sample Condition Upon Receipt (SCUR)**

Document Revised: April 07, 2014

Page 1 of 2

Document Number: **F-CHR-CS-003-rev.14**

Issuing Authority: **Pace Huntersville Quality Office**

Client Name: Sym

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 _____

Thermometer Used: IR Gun T1102 T1401 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Temp Correction Factor T1102: No Correction T1301: No Correction

Corrected Cooler Temp.: 7.9 °C Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: 7-5-14

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, collform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14. <u>7-5-14</u>
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15. <u>7-5-14</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: AMB Date: 7-15-14
SRF Review: AMB Date: 7-15-14

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)



APPENDIX IV

Laboratory Report and Disposal Manifest –
Drummed Soil Cuttings

July 21, 2014

Mr. Roger Smith
S&ME, Inc.
9751 Southern Pine Blvd.
Charlotte, NC 28273

RE: Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

Dear Mr. Smith:

Enclosed are the analytical results for sample(s) received by the laboratory on July 14, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

cc: Roger Smith, S&ME, Inc.



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9800 Kinsey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92209125001	IDW-1	Solid	07/14/14 14:50	07/14/14 18:30

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SAMPLE ANALYTE COUNT

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92209125001	IDW-1	EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	ZAK	1	PASI-C

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SUMMARY OF DETECTION

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92209125001	IDW-1					
EPA 8270	Benzo(a)anthracene	<411	ug/kg	411	07/19/14 17:51	
EPA 8270	Benzo(a)pyrene	<411	ug/kg	411	07/19/14 17:51	
EPA 8270	Benzo(b)fluoranthene	<411	ug/kg	411	07/19/14 17:51	
EPA 8270	Benzo(g,h,i)perylene	<411	ug/kg	411	07/19/14 17:51	
EPA 8270	Benzo(k)fluoranthene	<411	ug/kg	411	07/19/14 17:51	
EPA 8270	Chrysene	<411	ug/kg	411	07/19/14 17:51	
EPA 8270	Fluoranthene	<411	ug/kg	411	07/19/14 17:51	
EPA 8270	Indeno(1,2,3-cd)pyrene	<411	ug/kg	411	07/19/14 17:51	
EPA 8270	Pyrene	<411	ug/kg	411	07/19/14 17:51	
ASTM D2974-87	Percent Moisture	19.7	%	0.10	07/18/14 18:42	

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ANALYTICAL RESULTS

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

Sample: IDW-1 Lab ID: 92209125001 Collected: 07/14/14 14:50 Received: 07/14/14 18:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	<411	ug/kg	411	94.7	1	07/16/14 15:02	07/19/14 17:51	83-32-9	
Acenaphthylene	<411	ug/kg	411	97.2	1	07/16/14 15:02	07/19/14 17:51	208-96-8	
Aniline	<411	ug/kg	411	111	1	07/16/14 15:02	07/19/14 17:51	62-53-3	
Anthracene	<411	ug/kg	411	92.2	1	07/16/14 15:02	07/19/14 17:51	120-12-7	
Benzo(a)anthracene	<411	ug/kg	411	76.0	1	07/16/14 15:02	07/19/14 17:51	56-55-3	
Benzo(a)pyrene	<411	ug/kg	411	78.5	1	07/16/14 15:02	07/19/14 17:51	50-32-8	
Benzo(b)fluoranthene	<411	ug/kg	411	71.0	1	07/16/14 15:02	07/19/14 17:51	205-99-2	
Benzo(g,h,i)perylene	<411	ug/kg	411	105	1	07/16/14 15:02	07/19/14 17:51	191-24-2	
Benzo(k)fluoranthene	<411	ug/kg	411	81.0	1	07/16/14 15:02	07/19/14 17:51	207-08-9	
Benzoic Acid	<2060	ug/kg	2060	74.7	1	07/16/14 15:02	07/19/14 17:51	65-85-0	
Benzyl alcohol	<822	ug/kg	822	82.2	1	07/16/14 15:02	07/19/14 17:51	100-51-6	
4-Bromophenylphenyl ether	<411	ug/kg	411	74.7	1	07/16/14 15:02	07/19/14 17:51	101-55-3	
Butylbenzylphthalate	<411	ug/kg	411	87.2	1	07/16/14 15:02	07/19/14 17:51	85-68-7	
4-Chloro-3-methylphenol	<822	ug/kg	822	84.7	1	07/16/14 15:02	07/19/14 17:51	59-50-7	
4-Chloroaniline	<2060	ug/kg	2060	115	1	07/16/14 15:02	07/19/14 17:51	106-47-8	
bis(2-Chloroethoxy)methane	<411	ug/kg	411	95.9	1	07/16/14 15:02	07/19/14 17:51	111-91-1	
bis(2-Chloroethyl) ether	<411	ug/kg	411	105	1	07/16/14 15:02	07/19/14 17:51	111-44-4	
bis(2-Chloroisopropyl) ether	<411	ug/kg	411	110	1	07/16/14 15:02	07/19/14 17:51	108-60-1	
2-Chloronaphthalene	<411	ug/kg	411	81.0	1	07/16/14 15:02	07/19/14 17:51	91-58-7	
2-Chlorophenol	<411	ug/kg	411	112	1	07/16/14 15:02	07/19/14 17:51	95-57-8	
4-Chlorophenylphenyl ether	<411	ug/kg	411	84.7	1	07/16/14 15:02	07/19/14 17:51	7005-72-3	
Chrysene	<411	ug/kg	411	54.8	1	07/16/14 15:02	07/19/14 17:51	218-01-9	
Dibenz(a,h)anthracene	<411	ug/kg	411	87.2	1	07/16/14 15:02	07/19/14 17:51	53-70-3	
Dibenzofuran	<411	ug/kg	411	67.3	1	07/16/14 15:02	07/19/14 17:51	132-64-9	
1,2-Dichlorobenzene	<411	ug/kg	411	110	1	07/16/14 15:02	07/19/14 17:51	95-50-1	
1,3-Dichlorobenzene	<411	ug/kg	411	93.4	1	07/16/14 15:02	07/19/14 17:51	541-73-1	
1,4-Dichlorobenzene	<411	ug/kg	411	116	1	07/16/14 15:02	07/19/14 17:51	106-46-7	
3,3'-Dichlorobenzidine	<2060	ug/kg	2060	89.7	1	07/16/14 15:02	07/19/14 17:51	91-94-1	
2,4-Dichlorophenol	<411	ug/kg	411	89.7	1	07/16/14 15:02	07/19/14 17:51	120-83-2	
Diethylphthalate	<411	ug/kg	411	63.5	1	07/16/14 15:02	07/19/14 17:51	84-66-2	
2,4-Dimethylphenol	<411	ug/kg	411	162	1	07/16/14 15:02	07/19/14 17:51	105-67-9	
Dimethylphthalate	<411	ug/kg	411	83.5	1	07/16/14 15:02	07/19/14 17:51	131-11-3	
Di-n-butylphthalate	<411	ug/kg	411	67.3	1	07/16/14 15:02	07/19/14 17:51	84-74-2	
4,6-Dinitro-2-methylphenol	<822	ug/kg	822	82.2	1	07/16/14 15:02	07/19/14 17:51	534-52-1	
2,4-Dinitrophenol	<2060	ug/kg	2060	67.3	1	07/16/14 15:02	07/19/14 17:51	51-28-5	
2,4-Dinitrotoluene	<411	ug/kg	411	77.2	1	07/16/14 15:02	07/19/14 17:51	121-14-2	
2,6-Dinitrotoluene	<411	ug/kg	411	85.9	1	07/16/14 15:02	07/19/14 17:51	606-20-2	
Di-n-octylphthalate	<411	ug/kg	411	85.9	1	07/16/14 15:02	07/19/14 17:51	117-84-0	
bis(2-Ethylhexyl)phthalate	<411	ug/kg	411	112	1	07/16/14 15:02	07/19/14 17:51	117-81-7	
Fluoranthene	<411	ug/kg	411	59.8	1	07/16/14 15:02	07/19/14 17:51	206-44-0	
Fluorene	<411	ug/kg	411	84.7	1	07/16/14 15:02	07/19/14 17:51	86-73-7	
Hexachloro-1,3-butadiene	<411	ug/kg	411	71.0	1	07/16/14 15:02	07/19/14 17:51	87-68-3	
Hexachlorobenzene	<411	ug/kg	411	52.3	1	07/16/14 15:02	07/19/14 17:51	118-74-1	
Hexachlorocyclopentadiene	<411	ug/kg	411	76.0	1	07/16/14 15:02	07/19/14 17:51	77-47-4	
Hexachloroethane	<411	ug/kg	411	108	1	07/16/14 15:02	07/19/14 17:51	67-72-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

Sample: IDW-1 Lab ID: 92209125001 Collected: 07/14/14 14:50 Received: 07/14/14 18:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Indeno(1,2,3-cd)pyrene	<411	ug/kg	411	84.7	1	07/16/14 15:02	07/19/14 17:51	193-39-5	
Isophorone	<411	ug/kg	411	92.2	1	07/16/14 15:02	07/19/14 17:51	78-59-1	
1-Methylnaphthalene	<411	ug/kg	411	107	1	07/16/14 15:02	07/19/14 17:51	90-12-0	
2-Methylnaphthalene	<411	ug/kg	411	88.4	1	07/16/14 15:02	07/19/14 17:51	91-57-6	
2-Methylphenol(o-Cresol)	<411	ug/kg	411	125	1	07/16/14 15:02	07/19/14 17:51	95-48-7	
3&4-Methylphenol(m&p Cresol)	<411	ug/kg	411	162	1	07/16/14 15:02	07/19/14 17:51		
Naphthalene	<411	ug/kg	411	101	1	07/16/14 15:02	07/19/14 17:51	91-20-3	
2-Nitroaniline	<2060	ug/kg	2060	127	1	07/16/14 15:02	07/19/14 17:51	88-74-4	
3-Nitroaniline	<2060	ug/kg	2060	112	1	07/16/14 15:02	07/19/14 17:51	99-09-2	
4-Nitroaniline	<822	ug/kg	822	116	1	07/16/14 15:02	07/19/14 17:51	100-01-6	
Nitrobenzene	<411	ug/kg	411	112	1	07/16/14 15:02	07/19/14 17:51	98-95-3	
2-Nitrophenol	<411	ug/kg	411	99.6	1	07/16/14 15:02	07/19/14 17:51	88-75-5	
4-Nitrophenol	<2060	ug/kg	2060	73.5	1	07/16/14 15:02	07/19/14 17:51	100-02-7	
N-Nitrosodimethylamine	<411	ug/kg	411	133	1	07/16/14 15:02	07/19/14 17:51	62-75-9	
N-Nitroso-di-n-propylamine	<411	ug/kg	411	78.5	1	07/16/14 15:02	07/19/14 17:51	621-64-7	
N-Nitrosodiphenylamine	<411	ug/kg	411	122	1	07/16/14 15:02	07/19/14 17:51	86-30-6	
Pentachlorophenol	<2060	ug/kg	2060	74.7	1	07/16/14 15:02	07/19/14 17:51	87-86-5	
Phenanthrene	<411	ug/kg	411	68.5	1	07/16/14 15:02	07/19/14 17:51	85-01-8	
Phenol	<411	ug/kg	411	123	1	07/16/14 15:02	07/19/14 17:51	108-95-2	
Pyrene	<411	ug/kg	411	69.7	1	07/16/14 15:02	07/19/14 17:51	129-00-0	
1,2,4-Trichlorobenzene	<411	ug/kg	411	79.7	1	07/16/14 15:02	07/19/14 17:51	120-82-1	
2,4,5-Trichlorophenol	<411	ug/kg	411	127	1	07/16/14 15:02	07/19/14 17:51	95-95-4	
2,4,6-Trichlorophenol	<411	ug/kg	411	90.9	1	07/16/14 15:02	07/19/14 17:51	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	59 %		23-110		1	07/16/14 15:02	07/19/14 17:51	4165-60-0	
2-Fluorobiphenyl (S)	63 %		30-110		1	07/16/14 15:02	07/19/14 17:51	321-60-8	
Terphenyl-d14 (S)	79 %		28-110		1	07/16/14 15:02	07/19/14 17:51	1718-51-0	
Phenol-d6 (S)	69 %		22-110		1	07/16/14 15:02	07/19/14 17:51	13127-88-3	
2-Fluorophenol (S)	62 %		13-110		1	07/16/14 15:02	07/19/14 17:51	367-12-4	
2,4,6-Tribromophenol (S)	78 %		27-110		1	07/16/14 15:02	07/19/14 17:51	118-79-6	
8260/5035A Volatile Organics									
Analytical Method: EPA 8260									
Acetone	<90.6	ug/kg	90.6	9.1	1		07/18/14 18:51	67-64-1	
Benzene	<4.5	ug/kg	4.5	1.5	1		07/18/14 18:51	71-43-2	
Bromobenzene	<4.5	ug/kg	4.5	1.8	1		07/18/14 18:51	108-86-1	
Bromochloromethane	<4.5	ug/kg	4.5	1.5	1		07/18/14 18:51	74-97-5	
Bromodichloromethane	<4.5	ug/kg	4.5	1.7	1		07/18/14 18:51	75-27-4	
Bromoform	<4.5	ug/kg	4.5	2.1	1		07/18/14 18:51	75-25-2	
Bromomethane	<9.1	ug/kg	9.1	2.3	1		07/18/14 18:51	74-83-9	
2-Butanone (MEK)	<90.6	ug/kg	90.6	2.6	1		07/18/14 18:51	78-93-3	
n-Butylbenzene	<4.5	ug/kg	4.5	1.6	1		07/18/14 18:51	104-51-8	
sec-Butylbenzene	<4.5	ug/kg	4.5	1.5	1		07/18/14 18:51	135-98-8	
tert-Butylbenzene	<4.5	ug/kg	4.5	1.8	1		07/18/14 18:51	98-06-6	
Carbon tetrachloride	<4.5	ug/kg	4.5	2.4	1		07/18/14 18:51	56-23-5	
Chlorobenzene	<4.5	ug/kg	4.5	1.7	1		07/18/14 18:51	108-90-7	

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ANALYTICAL RESULTS

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

Sample: IDW-1 Lab ID: 92209125001 Collected: 07/14/14 14:50 Received: 07/14/14 18:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Chloroethane	<9.1	ug/kg	9.1	2.2	1		07/18/14 18:51	75-00-3	
Chloroform	<4.5	ug/kg	4.5	1.5	1		07/18/14 18:51	67-66-3	
Chloromethane	<9.1	ug/kg	9.1	2.2	1		07/18/14 18:51	74-87-3	
2-Chlorotoluene	<4.5	ug/kg	4.5	1.5	1		07/18/14 18:51	95-49-8	
4-Chlorotoluene	<4.5	ug/kg	4.5	1.6	1		07/18/14 18:51	106-43-4	
1,2-Dibromo-3-chloropropane	<4.5	ug/kg	4.5	3.3	1		07/18/14 18:51	96-12-8	
Dibromochloromethane	<4.5	ug/kg	4.5	1.6	1		07/18/14 18:51	124-48-1	
1,2-Dibromoethane (EDB)	<4.5	ug/kg	4.5	1.6	1		07/18/14 18:51	106-93-4	
Dibromomethane	<4.5	ug/kg	4.5	2.3	1		07/18/14 18:51	74-95-3	
1,2-Dichlorobenzene	<4.5	ug/kg	4.5	1.7	1		07/18/14 18:51	95-50-1	
1,3-Dichlorobenzene	<4.5	ug/kg	4.5	1.8	1		07/18/14 18:51	541-73-1	
1,4-Dichlorobenzene	<4.5	ug/kg	4.5	1.5	1		07/18/14 18:51	106-46-7	
Dichlorodifluoromethane	<9.1	ug/kg	9.1	3.3	1		07/18/14 18:51	75-71-8	
1,1-Dichloroethane	<4.5	ug/kg	4.5	1.4	1		07/18/14 18:51	75-34-3	
1,2-Dichloroethane	<4.5	ug/kg	4.5	2.0	1		07/18/14 18:51	107-06-2	
1,1-Dichloroethene	<4.5	ug/kg	4.5	1.6	1		07/18/14 18:51	75-35-4	
cis-1,2-Dichloroethene	<4.5	ug/kg	4.5	1.3	1		07/18/14 18:51	156-59-2	
trans-1,2-Dichloroethene	<4.5	ug/kg	4.5	1.7	1		07/18/14 18:51	156-60-5	
1,2-Dichloropropane	<4.5	ug/kg	4.5	1.5	1		07/18/14 18:51	78-87-5	
1,3-Dichloropropane	<4.5	ug/kg	4.5	1.7	1		07/18/14 18:51	142-28-9	
2,2-Dichloropropane	<4.5	ug/kg	4.5	1.5	1		07/18/14 18:51	594-20-7	
1,1-Dichloropropene	<4.5	ug/kg	4.5	1.4	1		07/18/14 18:51	563-58-6	
cis-1,3-Dichloropropene	<4.5	ug/kg	4.5	1.6	1		07/18/14 18:51	10061-01-5	
trans-1,3-Dichloropropene	<4.5	ug/kg	4.5	1.4	1		07/18/14 18:51	10061-02-6	
Diisopropyl ether	<4.5	ug/kg	4.5	1.5	1		07/18/14 18:51	108-20-3	
Ethylbenzene	<4.5	ug/kg	4.5	1.6	1		07/18/14 18:51	100-41-4	
Hexachloro-1,3-butadiene	<4.5	ug/kg	4.5	1.8	1		07/18/14 18:51	87-68-3	
2-Hexanone	<45.3	ug/kg	45.3	3.5	1		07/18/14 18:51	591-78-6	
Isopropylbenzene (Cumene)	<4.5	ug/kg	4.5	1.7	1		07/18/14 18:51	98-82-8	
p-Isopropyltoluene	<4.5	ug/kg	4.5	1.5	1		07/18/14 18:51	99-87-6	
Methylene Chloride	<18.1	ug/kg	18.1	2.7	1		07/18/14 18:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	<45.3	ug/kg	45.3	3.4	1		07/18/14 18:51	108-10-1	
Methyl-tert-butyl ether	<4.5	ug/kg	4.5	1.4	1		07/18/14 18:51	1634-04-4	
Naphthalene	<4.5	ug/kg	4.5	1.1	1		07/18/14 18:51	91-20-3	
n-Propylbenzene	<4.5	ug/kg	4.5	1.5	1		07/18/14 18:51	103-65-1	
Styrene	<4.5	ug/kg	4.5	1.6	1		07/18/14 18:51	100-42-5	
1,1,1,2-Tetrachloroethane	<4.5	ug/kg	4.5	1.9	1		07/18/14 18:51	630-20-6	
1,1,2,2-Tetrachloroethane	<4.5	ug/kg	4.5	1.7	1		07/18/14 18:51	79-34-5	
Tetrachloroethene	<4.5	ug/kg	4.5	1.5	1		07/18/14 18:51	127-18-4	
Toluene	<4.5	ug/kg	4.5	1.6	1		07/18/14 18:51	108-88-3	
1,2,3-Trichlorobenzene	<4.5	ug/kg	4.5	2.0	1		07/18/14 18:51	87-61-6	
1,2,4-Trichlorobenzene	<4.5	ug/kg	4.5	1.5	1		07/18/14 18:51	120-82-1	
1,1,1-Trichloroethane	<4.5	ug/kg	4.5	1.6	1		07/18/14 18:51	71-55-6	
1,1,2-Trichloroethane	<4.5	ug/kg	4.5	1.9	1		07/18/14 18:51	79-00-5	
Trichloroethene	<4.5	ug/kg	4.5	1.9	1		07/18/14 18:51	79-01-6	

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ANALYTICAL RESULTS

Project: 300-3A N COLLEGE ST

Pace Project No.: 92209125

Sample: IDW-1 Lab ID: 92209125001 Collected: 07/14/14 14:50 Received: 07/14/14 18:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Trichlorofluoromethane	<4.5	ug/kg	4.5	2.0	1		07/18/14 18:51	75-69-4	
1,2,3-Trichloropropane	<4.5	ug/kg	4.5	1.5	1		07/18/14 18:51	96-18-4	
1,2,4-Trimethylbenzene	<4.5	ug/kg	4.5	1.8	1		07/18/14 18:51	95-63-6	
1,3,5-Trimethylbenzene	<4.5	ug/kg	4.5	1.6	1		07/18/14 18:51	108-67-8	
Vinyl acetate	<45.3	ug/kg	45.3	8.0	1		07/18/14 18:51	108-05-4	
Vinyl chloride	<9.1	ug/kg	9.1	1.6	1		07/18/14 18:51	75-01-4	
Xylene (Total)	<9.1	ug/kg	9.1	3.3	1		07/18/14 18:51	1330-20-7	
m&p-Xylene	<9.1	ug/kg	9.1	3.3	1		07/18/14 18:51	179601-23-1	
o-Xylene	<4.5	ug/kg	4.5	1.7	1		07/18/14 18:51	95-47-6	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		07/18/14 18:51	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		07/18/14 18:51	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-132		1		07/18/14 18:51	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	19.7	%	0.10	0.10	1		07/18/14 18:42		

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

QC Batch: MSV/27611 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92209125001

METHOD BLANK: 1245171 Matrix: Solid
Associated Lab Samples: 92209125001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<5.6	5.6	07/18/14 16:12	
1,1,1-Trichloroethane	ug/kg	<5.6	5.6	07/18/14 16:12	
1,1,2,2-Tetrachloroethane	ug/kg	<5.6	5.6	07/18/14 16:12	
1,1,2-Trichloroethane	ug/kg	<5.6	5.6	07/18/14 16:12	
1,1-Dichloroethane	ug/kg	<5.6	5.6	07/18/14 16:12	
1,1-Dichloroethene	ug/kg	<5.6	5.6	07/18/14 16:12	
1,1-Dichloropropene	ug/kg	<5.6	5.6	07/18/14 16:12	
1,2,3-Trichlorobenzene	ug/kg	<5.6	5.6	07/18/14 16:12	
1,2,3-Trichloropropane	ug/kg	<5.6	5.6	07/18/14 16:12	
1,2,4-Trichlorobenzene	ug/kg	<5.6	5.6	07/18/14 16:12	
1,2,4-Trimethylbenzene	ug/kg	<5.6	5.6	07/18/14 16:12	
1,2-Dibromo-3-chloropropane	ug/kg	<5.6	5.6	07/18/14 16:12	
1,2-Dibromoethane (EDB)	ug/kg	<5.6	5.6	07/18/14 16:12	
1,2-Dichlorobenzene	ug/kg	<5.6	5.6	07/18/14 16:12	
1,2-Dichloroethane	ug/kg	<5.6	5.6	07/18/14 16:12	
1,2-Dichloropropane	ug/kg	<5.6	5.6	07/18/14 16:12	
1,3,5-Trimethylbenzene	ug/kg	<5.6	5.6	07/18/14 16:12	
1,3-Dichlorobenzene	ug/kg	<5.6	5.6	07/18/14 16:12	
1,3-Dichloropropane	ug/kg	<5.6	5.6	07/18/14 16:12	
1,4-Dichlorobenzene	ug/kg	<5.6	5.6	07/18/14 16:12	
2,2-Dichloropropane	ug/kg	<5.6	5.6	07/18/14 16:12	
2-Butanone (MEK)	ug/kg	<113	113	07/18/14 16:12	
2-Chlorotoluene	ug/kg	<5.6	5.6	07/18/14 16:12	
2-Hexanone	ug/kg	<56.4	56.4	07/18/14 16:12	
4-Chlorotoluene	ug/kg	<5.6	5.6	07/18/14 16:12	
4-Methyl-2-pentanone (MIBK)	ug/kg	<56.4	56.4	07/18/14 16:12	
Acetone	ug/kg	<113	113	07/18/14 16:12	
Benzene	ug/kg	<5.6	5.6	07/18/14 16:12	
Bromobenzene	ug/kg	<5.6	5.6	07/18/14 16:12	
Bromochloromethane	ug/kg	<5.6	5.6	07/18/14 16:12	
Bromodichloromethane	ug/kg	<5.6	5.6	07/18/14 16:12	
Bromoform	ug/kg	<5.6	5.6	07/18/14 16:12	
Bromomethane	ug/kg	<11.3	11.3	07/18/14 16:12	
Carbon tetrachloride	ug/kg	<5.6	5.6	07/18/14 16:12	
Chlorobenzene	ug/kg	<5.6	5.6	07/18/14 16:12	
Chloroethane	ug/kg	<11.3	11.3	07/18/14 16:12	
Chloroform	ug/kg	<5.6	5.6	07/18/14 16:12	
Chloromethane	ug/kg	<11.3	11.3	07/18/14 16:12	
cis-1,2-Dichloroethene	ug/kg	<5.6	5.6	07/18/14 16:12	
cis-1,3-Dichloropropene	ug/kg	<5.6	5.6	07/18/14 16:12	
Dibromochloromethane	ug/kg	<5.6	5.6	07/18/14 16:12	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

METHOD BLANK: 1245171

Matrix: Solid

Associated Lab Samples: 92209125001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	<5.6	5.6	07/18/14 16:12	
Dichlorodifluoromethane	ug/kg	<11.3	11.3	07/18/14 16:12	
Diisopropyl ether	ug/kg	<5.6	5.6	07/18/14 16:12	
Ethylbenzene	ug/kg	<5.6	5.6	07/18/14 16:12	
Hexachloro-1,3-butadiene	ug/kg	<5.6	5.6	07/18/14 16:12	
Isopropylbenzene (Cumene)	ug/kg	<5.6	5.6	07/18/14 16:12	
m&p-Xylene	ug/kg	<11.3	11.3	07/18/14 16:12	
Methyl-tert-butyl ether	ug/kg	<5.6	5.6	07/18/14 16:12	
Methylene Chloride	ug/kg	<22.6	22.6	07/18/14 16:12	
n-Butylbenzene	ug/kg	<5.6	5.6	07/18/14 16:12	
n-Propylbenzene	ug/kg	<5.6	5.6	07/18/14 16:12	
Naphthalene	ug/kg	<5.6	5.6	07/18/14 16:12	
o-Xylene	ug/kg	<5.6	5.6	07/18/14 16:12	
p-Isopropyltoluene	ug/kg	<5.6	5.6	07/18/14 16:12	
sec-Butylbenzene	ug/kg	<5.6	5.6	07/18/14 16:12	
Styrene	ug/kg	<5.6	5.6	07/18/14 16:12	
tert-Butylbenzene	ug/kg	<5.6	5.6	07/18/14 16:12	
Tetrachloroethene	ug/kg	<5.6	5.6	07/18/14 16:12	
Toluene	ug/kg	<5.6	5.6	07/18/14 16:12	
trans-1,2-Dichloroethene	ug/kg	<5.6	5.6	07/18/14 16:12	
trans-1,3-Dichloropropene	ug/kg	<5.6	5.6	07/18/14 16:12	
Trichloroethene	ug/kg	<5.6	5.6	07/18/14 16:12	
Trichlorofluoromethane	ug/kg	<5.6	5.6	07/18/14 16:12	
Vinyl acetate	ug/kg	<56.4	56.4	07/18/14 16:12	
Vinyl chloride	ug/kg	<11.3	11.3	07/18/14 16:12	
Xylene (Total)	ug/kg	<11.3	11.3	07/18/14 16:12	
1,2-Dichloroethane-d4 (S)	%	108	70-132	07/18/14 16:12	
4-Bromofluorobenzene (S)	%	96	70-130	07/18/14 16:12	
Toluene-d8 (S)	%	101	70-130	07/18/14 16:12	

LABORATORY CONTROL SAMPLE: 1245172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	49	44.5	91	74-137	
1,1,1-Trichloroethane	ug/kg	49	41.3	84	67-140	
1,1,2,2-Tetrachloroethane	ug/kg	49	41.0	84	72-141	
1,1,2-Trichloroethane	ug/kg	49	43.6	89	78-138	
1,1-Dichloroethane	ug/kg	49	39.7	81	69-134	
1,1-Dichloroethene	ug/kg	49	43.6	89	67-138	
1,1-Dichloropropene	ug/kg	49	43.3	88	69-139	
1,2,3-Trichlorobenzene	ug/kg	49	49.2	100	70-146	
1,2,3-Trichloropropane	ug/kg	49	43.9	90	69-144	
1,2,4-Trichlorobenzene	ug/kg	49	50.2	102	68-148	
1,2,4-Trimethylbenzene	ug/kg	49	48.1	98	74-137	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

LABORATORY CONTROL SAMPLE: 1245172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	49	45.0	92	65-140	
1,2-Dibromoethane (EDB)	ug/kg	49	44.7	91	77-135	
1,2-Dichlorobenzene	ug/kg	49	47.7	97	77-141	
1,2-Dichloroethane	ug/kg	49	41.4	85	65-137	
1,2-Dichloropropane	ug/kg	49	44.3	90	72-136	
1,3,5-Trimethylbenzene	ug/kg	49	47.3	97	76-133	
1,3-Dichlorobenzene	ug/kg	49	47.8	98	74-138	
1,3-Dichloropropane	ug/kg	49	43.9	90	71-139	
1,4-Dichlorobenzene	ug/kg	49	48.0	98	76-138	
2,2-Dichloropropane	ug/kg	49	41.2	84	68-137	
2-Butanone (MEK)	ug/kg	98	<98.0	80	58-147	
2-Chlorotoluene	ug/kg	49	46.3	94	73-139	
2-Hexanone	ug/kg	98	80.2	82	62-145	
4-Chlorotoluene	ug/kg	49	46.6	95	76-141	
4-Methyl-2-pentanone (MIBK)	ug/kg	98	88.5	90	64-149	
Acetone	ug/kg	98	<98.0	79	53-153	
Benzene	ug/kg	49	45.6	93	73-135	
Bromobenzene	ug/kg	49	46.9	96	75-133	
Bromochloromethane	ug/kg	49	45.2	92	73-134	
Bromodichloromethane	ug/kg	49	46.2	94	71-135	
Bromoform	ug/kg	49	42.8	87	66-141	
Bromomethane	ug/kg	49	42.6	87	53-160	
Carbon tetrachloride	ug/kg	49	45.6	93	60-145	
Chlorobenzene	ug/kg	49	45.8	93	78-130	
Chloroethane	ug/kg	49	40.6	83	64-149	
Chloroform	ug/kg	49	44.5	91	70-134	
Chloromethane	ug/kg	49	41.4	84	52-150	
cis-1,2-Dichloroethene	ug/kg	49	45.9	94	70-133	
cis-1,3-Dichloropropene	ug/kg	49	46.2	94	68-134	
Dibromochloromethane	ug/kg	49	47.6	97	71-138	
Dibromomethane	ug/kg	49	42.7	87	74-130	
Dichlorodifluoromethane	ug/kg	49	46.7	95	40-160	
Diisopropyl ether	ug/kg	49	42.7	87	69-141	
Ethylbenzene	ug/kg	49	44.9	92	75-133	
Hexachloro-1,3-butadiene	ug/kg	49	47.9	98	68-143	
Isopropylbenzene (Cumene)	ug/kg	49	46.8	95	76-143	
m&p-Xylene	ug/kg	98	86.5	88	75-136	
Methyl-tert-butyl ether	ug/kg	49	42.5	87	68-144	
Methylene Chloride	ug/kg	49	39.3	80	45-154	
n-Butylbenzene	ug/kg	49	46.3	94	72-137	
n-Propylbenzene	ug/kg	49	44.9	92	76-136	
Naphthalene	ug/kg	49	47.5	97	68-151	
o-Xylene	ug/kg	49	45.9	94	76-141	
p-Isopropyltoluene	ug/kg	49	45.4	93	76-140	
sec-Butylbenzene	ug/kg	49	44.1	90	79-139	
Styrene	ug/kg	49	47.4	97	79-137	
tert-Butylbenzene	ug/kg	49	46.2	94	74-143	

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

LABORATORY CONTROL SAMPLE: 1245172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	49	44.4	91	71-138	
Toluene	ug/kg	49	44.5	91	74-131	
trans-1,2-Dichloroethene	ug/kg	49	44.3	90	67-135	
trans-1,3-Dichloropropene	ug/kg	49	46.8	95	65-146	
Trichloroethene	ug/kg	49	41.2	84	67-135	
Trichlorofluoromethane	ug/kg	49	44.4	91	59-144	
Vinyl acetate	ug/kg	98	108	110	40-160	
Vinyl chloride	ug/kg	49	44.3	90	56-141	
Xylene (Total)	ug/kg	147	132	90	76-137	
1,2-Dichloroethane-d4 (S)	%			91	70-132	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1245657

Parameter	Units	92209540004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	56.8	49.5	87	49-180	
Benzene	ug/kg	ND	56.8	51.3	90	50-166	
Chlorobenzene	ug/kg	ND	56.8	52.2	92	43-169	
Toluene	ug/kg	ND	56.8	48.7	86	52-163	
Trichloroethene	ug/kg	ND	56.8	45.9	81	49-167	
1,2-Dichloroethane-d4 (S)	%				97	70-132	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1245656

Parameter	Units	92209462001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	<4.9		30	
1,1,1-Trichloroethane	ug/kg	ND	<4.9		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	<4.9		30	
1,1,2-Trichloroethane	ug/kg	ND	<4.9		30	
1,1-Dichloroethane	ug/kg	ND	<4.9		30	
1,1-Dichloroethene	ug/kg	ND	<4.9		30	
1,1-Dichloropropene	ug/kg	ND	<4.9		30	
1,2,3-Trichlorobenzene	ug/kg	ND	<4.9		30	
1,2,3-Trichloropropane	ug/kg	ND	<4.9		30	
1,2,4-Trichlorobenzene	ug/kg	ND	<4.9		30	
1,2,4-Trimethylbenzene	ug/kg	ND	<4.9		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	<4.9		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	<4.9		30	
1,2-Dichlorobenzene	ug/kg	ND	<4.9		30	
1,2-Dichloroethane	ug/kg	ND	<4.9		30	
1,2-Dichloropropane	ug/kg	ND	<4.9		30	

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST

Pace Project No.: 92209125

SAMPLE DUPLICATE: 1245656

Parameter	Units	92209462001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,3,5-Trimethylbenzene	ug/kg	ND	<4.9		30	
1,3-Dichlorobenzene	ug/kg	ND	<4.9		30	
1,3-Dichloropropane	ug/kg	ND	<4.9		30	
1,4-Dichlorobenzene	ug/kg	ND	<4.9		30	
2,2-Dichloropropane	ug/kg	ND	<4.9		30	
2-Butanone (MEK)	ug/kg	ND	<98.7		30	
2-Chlorotoluene	ug/kg	ND	<4.9		30	
2-Hexanone	ug/kg	ND	<49.3		30	
4-Chlorotoluene	ug/kg	ND	<4.9		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	<49.3		30	
Acetone	ug/kg	ND	<98.7		30	
Benzene	ug/kg	ND	<4.9		30	
Bromobenzene	ug/kg	ND	<4.9		30	
Bromochloromethane	ug/kg	ND	<4.9		30	
Bromodichloromethane	ug/kg	ND	<4.9		30	
Bromoform	ug/kg	ND	<4.9		30	
Bromomethane	ug/kg	ND	<9.9		30	
Carbon tetrachloride	ug/kg	ND	<4.9		30	
Chlorobenzene	ug/kg	ND	<4.9		30	
Chloroethane	ug/kg	ND	<9.9		30	
Chloroform	ug/kg	ND	<4.9		30	
Chloromethane	ug/kg	ND	<9.9		30	
cis-1,2-Dichloroethene	ug/kg	ND	<4.9		30	
cis-1,3-Dichloropropene	ug/kg	ND	<4.9		30	
Dibromochloromethane	ug/kg	ND	<4.9		30	
Dibromomethane	ug/kg	ND	<4.9		30	
Dichlorodifluoromethane	ug/kg	ND	<9.9		30	
Diisopropyl ether	ug/kg	ND	<4.9		30	
Ethylbenzene	ug/kg	ND	<4.9		30	
Hexachloro-1,3-butadiene	ug/kg	ND	<4.9		30	
Isopropylbenzene (Cumene)	ug/kg	ND	<4.9		30	
m&p-Xylene	ug/kg	ND	<9.9		30	
Methyl-tert-butyl ether	ug/kg	ND	<4.9		30	
Methylene Chloride	ug/kg	ND	<19.7		30	
n-Butylbenzene	ug/kg	ND	<4.9		30	
n-Propylbenzene	ug/kg	ND	<4.9		30	
Naphthalene	ug/kg	ND	<4.9		30	
o-Xylene	ug/kg	ND	<4.9		30	
p-Isopropyltoluene	ug/kg	ND	<4.9		30	
sec-Butylbenzene	ug/kg	ND	<4.9		30	
Styrene	ug/kg	ND	<4.9		30	
tert-Butylbenzene	ug/kg	ND	<4.9		30	
Tetrachloroethene	ug/kg	ND	<4.9		30	
Toluene	ug/kg	ND	<4.9		30	
trans-1,2-Dichloroethene	ug/kg	ND	<4.9		30	
trans-1,3-Dichloropropene	ug/kg	ND	<4.9		30	
Trichloroethene	ug/kg	ND	<4.9		30	

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST

Pace Project No.: 92209125

SAMPLE DUPLICATE: 1245656

Parameter	Units	92209462001 Result	Dup Result	RPD	Max RPD	Qualifiers
Trichlorofluoromethane	ug/kg	ND	<4.9		30	
Vinyl acetate	ug/kg	ND	<49.3		30	
Vinyl chloride	ug/kg	ND	<9.9		30	
Xylene (Total)	ug/kg	ND	<9.9		30	
1,2-Dichloroethane-d4 (S)	%	100	97	9		
4-Bromofluorobenzene (S)	%	94	100	0		
Toluene-d8 (S)	%	101	103	4		

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

QC Batch: OEXT/28847 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 92209125001

METHOD BLANK: 1242142 Matrix: Solid
Associated Lab Samples: 92209125001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	<330	330	07/16/14 18:49	
1,2-Dichlorobenzene	ug/kg	<330	330	07/16/14 18:49	
1,3-Dichlorobenzene	ug/kg	<330	330	07/16/14 18:49	
1,4-Dichlorobenzene	ug/kg	<330	330	07/16/14 18:49	
1-Methylnaphthalene	ug/kg	<330	330	07/16/14 18:49	
2,4,5-Trichlorophenol	ug/kg	<330	330	07/16/14 18:49	
2,4,6-Trichlorophenol	ug/kg	<330	330	07/16/14 18:49	
2,4-Dichlorophenol	ug/kg	<330	330	07/16/14 18:49	
2,4-Dimethylphenol	ug/kg	<330	330	07/16/14 18:49	
2,4-Dinitrophenol	ug/kg	<1650	1650	07/16/14 18:49	
2,4-Dinitrotoluene	ug/kg	<330	330	07/16/14 18:49	
2,6-Dinitrotoluene	ug/kg	<330	330	07/16/14 18:49	
2-Chloronaphthalene	ug/kg	<330	330	07/16/14 18:49	
2-Chlorophenol	ug/kg	<330	330	07/16/14 18:49	
2-Methylnaphthalene	ug/kg	<330	330	07/16/14 18:49	
2-Methylphenol(o-Cresol)	ug/kg	<330	330	07/16/14 18:49	
2-Nitroaniline	ug/kg	<1650	1650	07/16/14 18:49	
2-Nitrophenol	ug/kg	<330	330	07/16/14 18:49	
3&4-Methylphenol(m&p Cresol)	ug/kg	<330	330	07/16/14 18:49	
3,3'-Dichlorobenzidine	ug/kg	<1650	1650	07/16/14 18:49	
3-Nitroaniline	ug/kg	<1650	1650	07/16/14 18:49	
4,6-Dinitro-2-methylphenol	ug/kg	<660	660	07/16/14 18:49	
4-Bromophenylphenyl ether	ug/kg	<330	330	07/16/14 18:49	
4-Chloro-3-methylphenol	ug/kg	<660	660	07/16/14 18:49	
4-Chloroaniline	ug/kg	<1650	1650	07/16/14 18:49	
4-Chlorophenylphenyl ether	ug/kg	<330	330	07/16/14 18:49	
4-Nitroaniline	ug/kg	<660	660	07/16/14 18:49	
4-Nitrophenol	ug/kg	<1650	1650	07/16/14 18:49	
Acenaphthene	ug/kg	<330	330	07/16/14 18:49	
Acenaphthylene	ug/kg	<330	330	07/16/14 18:49	
Aniline	ug/kg	<330	330	07/16/14 18:49	
Anthracene	ug/kg	<330	330	07/16/14 18:49	
Benzo(a)anthracene	ug/kg	<330	330	07/16/14 18:49	
Benzo(a)pyrene	ug/kg	<330	330	07/16/14 18:49	
Benzo(b)fluoranthene	ug/kg	<330	330	07/16/14 18:49	
Benzo(g,h,i)perylene	ug/kg	<330	330	07/16/14 18:49	
Benzo(k)fluoranthene	ug/kg	<330	330	07/16/14 18:49	
Benzoic Acid	ug/kg	<1650	1650	07/16/14 18:49	
Benzyl alcohol	ug/kg	<660	660	07/16/14 18:49	
bis(2-Chloroethoxy)methane	ug/kg	<330	330	07/16/14 18:49	
bis(2-Chloroethyl) ether	ug/kg	<330	330	07/16/14 18:49	

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

METHOD BLANK: 1242142

Matrix: Solid

Associated Lab Samples: 92209125001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroisopropyl) ether	ug/kg	<330	330	07/16/14 18:49	
bis(2-Ethylhexyl)phthalate	ug/kg	<330	330	07/16/14 18:49	
Butylbenzylphthalate	ug/kg	<330	330	07/16/14 18:49	
Chrysene	ug/kg	<330	330	07/16/14 18:49	
Di-n-butylphthalate	ug/kg	<330	330	07/16/14 18:49	
Di-n-octylphthalate	ug/kg	<330	330	07/16/14 18:49	
Dibenz(a,h)anthracene	ug/kg	<330	330	07/16/14 18:49	
Dibenzofuran	ug/kg	<330	330	07/16/14 18:49	
Diethylphthalate	ug/kg	<330	330	07/16/14 18:49	
Dimethylphthalate	ug/kg	<330	330	07/16/14 18:49	
Fluoranthene	ug/kg	<330	330	07/16/14 18:49	
Fluorene	ug/kg	<330	330	07/16/14 18:49	
Hexachloro-1,3-butadiene	ug/kg	<330	330	07/16/14 18:49	
Hexachlorobenzene	ug/kg	<330	330	07/16/14 18:49	
Hexachlorocyclopentadiene	ug/kg	<330	330	07/16/14 18:49	
Hexachloroethane	ug/kg	<330	330	07/16/14 18:49	
Indeno(1,2,3-cd)pyrene	ug/kg	<330	330	07/16/14 18:49	
Isophorone	ug/kg	<330	330	07/16/14 18:49	
N-Nitroso-di-n-propylamine	ug/kg	<330	330	07/16/14 18:49	
N-Nitrosodimethylamine	ug/kg	<330	330	07/16/14 18:49	
N-Nitrosodiphenylamine	ug/kg	<330	330	07/16/14 18:49	
Naphthalene	ug/kg	<330	330	07/16/14 18:49	
Nitrobenzene	ug/kg	<330	330	07/16/14 18:49	
Pentachlorophenol	ug/kg	<1650	1650	07/16/14 18:49	
Phenanthrene	ug/kg	<330	330	07/16/14 18:49	
Phenol	ug/kg	<330	330	07/16/14 18:49	
Pyrene	ug/kg	<330	330	07/16/14 18:49	
2,4,6-Tribromophenol (S)	%	64	27-110	07/16/14 18:49	
2-Fluorobiphenyl (S)	%	60	30-110	07/16/14 18:49	
2-Fluorophenol (S)	%	57	13-110	07/16/14 18:49	
Nitrobenzene-d5 (S)	%	62	23-110	07/16/14 18:49	
Phenol-d6 (S)	%	61	22-110	07/16/14 18:49	
Terphenyl-d14 (S)	%	84	28-110	07/16/14 18:49	

LABORATORY CONTROL SAMPLE & LCSD: 1242143

1242144

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	901	1040	54	62	36-120	14	30	
1,2-Dichlorobenzene	ug/kg	1670	934	1110	56	66	41-120	17	30	
1,3-Dichlorobenzene	ug/kg	1670	907	1050	54	63	66-120	14	30	L2,R1
1,4-Dichlorobenzene	ug/kg	1670	961	1120	58	67	42-120	15	30	
1-Methylnaphthalene	ug/kg	1670	1010	1100	61	66	40-120	8	30	
2,4,5-Trichlorophenol	ug/kg	1670	1060	1190	63	71	37-120	11	30	
2,4,6-Trichlorophenol	ug/kg	1670	1030	1110	62	66	40-120	7	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

LABORATORY CONTROL SAMPLE & LCSD:		1242143	1242144		LCS	LCSD	% Rec	Max		
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
2,4-Dichlorophenol	ug/kg	1670	996	1160	60	70	33-120	15	30	
2,4-Dimethylphenol	ug/kg	1670	991	1120	59	67	36-120	12	30	
2,4-Dinitrophenol	ug/kg	8330	5200	6670	62	80	22-121	25	30	
2,4-Dinitrotoluene	ug/kg	1670	1230	1330	74	80	60-120	8	30	
2,6-Dinitrotoluene	ug/kg	1670	1210	1280	72	77	54-120	6	30	
2-Chloronaphthalene	ug/kg	1670	936	1060	56	64	41-120	12	30	
2-Chlorophenol	ug/kg	1670	909	1270	55	76	39-120	33	30	R1
2-Methylnaphthalene	ug/kg	1670	967	1090	58	65	26-120	11	30	
2-Methylphenol(o-Cresol)	ug/kg	1670	892	1250	54	75	41-120	34	30	R1
2-Nitroaniline	ug/kg	3330	2670	2740	80	82	45-120	3	30	
2-Nitrophenol	ug/kg	1670	1180	1370	71	82	35-120	15	30	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	870	1220	52	73	35-120	33	30	R1
3,3'-Dichlorobenzidine	ug/kg	3330	2180	2310	66	69	16-125	6	30	
3-Nitroaniline	ug/kg	3330	2340	2570	70	77	45-120	9	30	
4,6-Dinitro-2-methylphenol	ug/kg	3330	2550	2950	76	89	46-120	15	30	
4-Bromophenylphenyl ether	ug/kg	1670	1110	1070	66	64	36-120	3	30	
4-Chloro-3-methylphenol	ug/kg	3330	2370	2470	71	74	37-120	4	30	
4-Chloroaniline	ug/kg	3330	2050	2230	61	67	35-120	9	30	
4-Chlorophenylphenyl ether	ug/kg	1670	1040	1090	62	65	30-120	5	30	
4-Nitroaniline	ug/kg	3330	2410	2860	72	86	48-120	17	30	
4-Nitrophenol	ug/kg	8330	5630	6890	68	83	43-120	20	30	
Acenaphthene	ug/kg	1670	1000	1090	60	65	46-120	8	30	
Acenaphthylene	ug/kg	1670	1010	1090	61	65	46-120	8	30	
Aniline	ug/kg	1670	800	1070	48	64	33-120	29	30	
Anthracene	ug/kg	1670	1220	1230	73	74	63-120	1	30	
Benzo(a)anthracene	ug/kg	1670	1150	1210	69	72	61-120	5	30	
Benzo(a)pyrene	ug/kg	1670	1140	1180	68	71	59-120	4	30	
Benzo(b)fluoranthene	ug/kg	1670	1120	1190	67	71	55-120	6	30	
Benzo(g,h,i)perylene	ug/kg	1670	1000	1020	60	61	57-120	1	30	
Benzo(k)fluoranthene	ug/kg	1670	1060	1130	63	68	56-120	6	30	
Benzoic Acid	ug/kg	8330	3810	4140	46	50	13-120	8	30	
Benzyl alcohol	ug/kg	3330	1930	2640	58	79	34-120	31	30	R1
bis(2-Chloroethoxy)methane	ug/kg	1670	907	1050	54	63	21-120	15	30	
bis(2-Chloroethyl) ether	ug/kg	1670	939	1250	56	75	25-120	28	30	
bis(2-Chloroisopropyl) ether	ug/kg	1670	1150	1510	69	91	13-120	27	30	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1250	1370	75	82	56-123	9	30	
Butylbenzylphthalate	ug/kg	1670	1220	1340	73	80	57-120	9	30	
Chrysene	ug/kg	1670	1190	1220	72	73	64-120	2	30	
Di-n-butylphthalate	ug/kg	1670	1140	1210	68	72	58-120	6	30	
Di-n-octylphthalate	ug/kg	1670	1230	1280	74	77	47-121	5	30	
Dibenz(a,h)anthracene	ug/kg	1670	1020	1050	61	63	56-120	2	30	
Dibenzofuran	ug/kg	1670	1150	1220	69	73	43-120	5	30	
Diethylphthalate	ug/kg	1670	1090	1120	66	67	55-120	3	30	
Dimethylphthalate	ug/kg	1670	1180	1190	71	71	54-120	1	30	
Fluoranthene	ug/kg	1670	1180	1310	71	78	61-120	10	30	
Fluorene	ug/kg	1670	1180	1210	71	73	51-120	3	30	
Hexachloro-1,3-butadiene	ug/kg	1670	893	1030	54	62	22-120	14	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

LABORATORY CONTROL SAMPLE & LCSD:		1242143		1242144							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Hexachlorobenzene	ug/kg	1670	1100	1080	66	65	53-120	2	30		
Hexachlorocyclopentadiene	ug/kg	1670	617	878	37	53	18-150	35	30	R1	
Hexachloroethane	ug/kg	1670	952	1090	57	66	39-120	14	30		
Indeno(1,2,3-cd)pyrene	ug/kg	1670	816	829	49	50	58-120	2	30	L2	
Isophorone	ug/kg	1670	1040	1040	63	62	38-120	0	30		
N-Nitroso-di-n-propylamine	ug/kg	1670	883	1140	53	69	30-120	26	30		
N-Nitrosodimethylamine	ug/kg	1670	834	974	50	58	32-120	15	30		
N-Nitrosodiphenylamine	ug/kg	1670	1000	975	60	59	50-120	3	30		
Naphthalene	ug/kg	1670	906	1060	54	63	38-120	15	30		
Nitrobenzene	ug/kg	1670	922	1080	55	65	37-120	16	30		
Pentachlorophenol	ug/kg	3330	1700	2060	51	62	10-120	19	30		
Phenanthrene	ug/kg	1670	1180	1200	71	72	62-120	2	30		
Phenol	ug/kg	1670	885	1270	53	76	37-120	35	30	R1	
Pyrene	ug/kg	1670	1190	1230	71	74	63-120	3	30		
2,4,6-Tribromophenol (S)	%				79	77	27-110				
2-Fluorobiphenyl (S)	%				58	67	30-110				
2-Fluorophenol (S)	%				55	71	13-110				
Nitrobenzene-d5 (S)	%				60	71	23-110				
Phenol-d6 (S)	%				55	74	22-110				
Terphenyl-d14 (S)	%				75	76	28-110				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1243028		1243029								
Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92209037011 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,2,4-Trichlorobenzene	ug/kg	ND	2060	2060	1370	1000	66	49	18-119	31	30	
1,2-Dichlorobenzene	ug/kg	ND	2060	2060	1340	975	65	47	50-110	32	30	M1
1,3-Dichlorobenzene	ug/kg	ND	2060	2060	1340	960	65	47	27-110	33	30	
1,4-Dichlorobenzene	ug/kg	ND	2060	2060	1380	981	67	48	28-110	34	30	
1-Methylnaphthalene	ug/kg	ND	2060	2060	1330	973	65	47	24-116	31	30	
2,4,5-Trichlorophenol	ug/kg	ND	2060	2060	1450	1110	70	54	28-110	26	30	
2,4,6-Trichlorophenol	ug/kg	ND	2060	2060	1480	1150	72	56	17-117	25	30	
2,4-Dichlorophenol	ug/kg	ND	2060	2060	1460	1030	71	50	21-128	35	30	
2,4-Dimethylphenol	ug/kg	ND	2060	2060	1610	1140	78	56	10-120	34	30	
2,4-Dinitrophenol	ug/kg	ND	10300	10300	7700	6650	75	65	10-107	15	30	
2,4-Dinitrotoluene	ug/kg	ND	2060	2060	1600	1430	78	69	36-109	11	30	
2,6-Dinitrotoluene	ug/kg	ND	2060	2060	1620	1390	79	68	32-110	15	30	
2-Chloronaphthalene	ug/kg	ND	2060	2060	1390	1040	68	50	30-107	29	30	
2-Chlorophenol	ug/kg	ND	2060	2060	1510	1070	73	52	14-106	34	30	
2-Methylnaphthalene	ug/kg	ND	2060	2060	1330	989	65	48	10-135	30	30	
2-Methylphenol(o-Cresol)	ug/kg	ND	2060	2060	1400	961	68	47	10-124	37	30	
2-Nitroaniline	ug/kg	ND	4110	4110	3200	2750	78	67	26-116	15	30	
2-Nitrophenol	ug/kg	ND	2060	2060	1470	1090	72	53	28-103	30	30	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	2060	2060	1400	949	68	46	10-109	38	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

Parameter	Units	1243028		1243029		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92209037011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
3,3'-Dichlorobenzidine	ug/kg	ND	4110	4110	3170	2960	75	70	10-150	7	30	
3-Nitroaniline	ug/kg	ND	4110	4110	3000	2670	73	65	22-110	12	30	
4,6-Dinitro-2-methylphenol	ug/kg	ND	4110	4110	3620	3210	88	78	13-121	12	30	
4-Bromophenylphenyl ether	ug/kg	ND	2060	2060	1590	1420	77	69	31-109	11	30	
4-Chloro-3-methylphenol	ug/kg	ND	4110	4110	2850	2240	69	54	13-128	24	30	
4-Chloroaniline	ug/kg	ND	4110	4110	2710	2060	66	50	18-102	27	30	
4-Chlorophenylphenyl ether	ug/kg	ND	2060	2060	1500	1280	73	62	29-112	16	30	
4-Nitroaniline	ug/kg	ND	4110	4110	3060	2750	74	67	16-111	11	30	
4-Nitrophenol	ug/kg	ND	10300	10300	8280	7100	80	69	14-135	15	30	
Acenaphthene	ug/kg	ND	2060	2060	1450	1160	70	57	26-114	22	30	
Acenaphthylene	ug/kg	ND	2060	2060	1450	1150	71	56	32-108	23	30	
Aniline	ug/kg	ND	2060	2060	1010	664	49	32	10-107	41	30	
Anthracene	ug/kg	ND	2060	2060	1540	1430	75	70	32-111	7	30	
Benzo(a)anthracene	ug/kg	ND	2060	2060	1510	1410	71	66	25-117	7	30	
Benzo(a)pyrene	ug/kg	ND	2060	2060	1520	1430	72	67	25-106	6	30	
Benzo(b)fluoranthene	ug/kg	ND	2060	2060	1460	1400	68	66	24-110	4	30	
Benzo(g,h,i)perylene	ug/kg	ND	2060	2060	1440	1330	70	65	19-112	8	30	
Benzo(k)fluoranthene	ug/kg	ND	2060	2060	1480	1360	69	64	24-114	8	30	
Benzoic Acid	ug/kg	ND	10300	10300	2580	2100	25	20	10-110	20	30	
Benzyl alcohol	ug/kg	ND	4110	4110	3010	2050	73	50	24-106	38	30	
bis(2-Chloroethoxy)methane	ug/kg	ND	2060	2060	1370	972	67	47	13-119	34	30	
bis(2-Chloroethyl) ether	ug/kg	ND	2060	2060	1360	1000	66	49	10-134	30	30	
bis(2-Chloroisopropyl) ether	ug/kg	ND	2060	2060	1380	970	67	47	10-113	35	30	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	2060	2060	1580	1490	74	69	10-125	6	30	
Butylbenzylphthalate	ug/kg	ND	2060	2060	1590	1490	77	73	18-110	6	30	
Chrysene	ug/kg	ND	2060	2060	1490	1390	69	65	30-110	7	30	
Di-n-butylphthalate	ug/kg	ND	2060	2060	1650	1540	80	75	19-112	7	30	
Di-n-octylphthalate	ug/kg	ND	2060	2060	1560	1390	73	65	17-105	12	30	
Dibenz(a,h)anthracene	ug/kg	ND	2060	2060	1490	1380	72	67	23-111	8	30	
Dibenzofuran	ug/kg	ND	2060	2060	1590	1300	77	63	35-103	20	30	
Diethylphthalate	ug/kg	ND	2060	2060	1590	1440	77	70	27-113	10	30	
Dimethylphthalate	ug/kg	ND	2060	2060	1600	1400	78	68	26-111	13	30	
Fluoranthene	ug/kg	ND	2060	2060	1580	1450	77	71	33-109	9	30	
Fluorene	ug/kg	ND	2060	2060	1530	1310	74	64	32-113	15	30	
Hexachloro-1,3-butadiene	ug/kg	ND	2060	2060	1380	989	67	48	16-116	33	30	
Hexachlorobenzene	ug/kg	ND	2060	2060	1450	1350	71	66	27-120	7	30	
Hexachlorocyclopentadiene	ug/kg	ND	2060	2060	1710	1150	83	56	10-108	39	30	
Hexachloroethane	ug/kg	ND	2060	2060	1360	967	66	47	10-117	33	30	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	2060	2060	1180	1100	57	54	10-122	7	30	
Isophorone	ug/kg	ND	2060	2060	1410	1070	68	52	28-114	27	30	
N-Nitroso-di-n-propylamine	ug/kg	ND	2060	2060	1450	997	70	48	27-113	37	30	
N-Nitrosodimethylamine	ug/kg	ND	2060	2060	1360	969	66	47	10-109	34	30	
N-Nitrosodiphenylamine	ug/kg	ND	2060	2060	1560	1450	76	71	10-128	7	30	
Naphthalene	ug/kg	ND	2060	2060	1390	1030	67	50	25-110	29	30	
Nitrobenzene	ug/kg	ND	2060	2060	1410	1030	69	50	18-114	32	30	
Pentachlorophenol	ug/kg	ND	4110	4110	3220	2800	78	68	10-122	14	30	

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

Parameter	Units	92209037011		MSD		MSD		MS		% Rec	Limits	Max		Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD			RPD		
Phenanthrene	ug/kg	ND	2060	2060	1490	1370	73	67	30-114	9	30			
Phenol	ug/kg	ND	2060	2060	1500	1040	73	51	11-102	36	30	1g,R1		
Pyrene	ug/kg	ND	2060	2060	1480	1460	72	71	25-116	1	30			
2,4,6-Tribromophenol (S)	%						76	69	27-110					
2-Fluorobiphenyl (S)	%						68	52	30-110					
2-Fluorophenol (S)	%						69	49	13-110					
Nitrobenzene-d5 (S)	%						65	49	23-110					
Phenol-d6 (S)	%						69	48	22-110					
Terphenyl-d14 (S)	%						73	71	28-110					

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QUALITY CONTROL DATA

Project: 300-3A N COLLEGE ST

Pace Project No.: 92209125

QC Batch: PMST/6814	Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87	Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92209125001	

SAMPLE DUPLICATE: 1244442

Parameter	Units	92209125001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.7	21.2	7	25	

SAMPLE DUPLICATE: 1244443

Parameter	Units	92209747003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.5	16.2	11	25	

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QUALIFIERS

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

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.

PQL - Practical Quantitation Limit.

RL - Reporting 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.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride..

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

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g This comment applies to all compounds with RPD greater than 30%.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 300-3A N COLLEGE ST
Pace Project No.: 92209125

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92209125001	IDW-1	EPA 3546	OEXT/28847	EPA 8270	MSSV/9398
92209125001	IDW-1	EPA 8260	MSV/27611		
92209125001	IDW-1	ASTM D2974-87	PMST/6814		

REPORT OF LABORATORY ANALYSIS

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Document Name: **Sample Condition Upon Receipt (SCUR)**

Document Revised: April 07, 2014

Page 1 of 2

Document Number:
F-CHR-CS-003-rev.14

Issuing Authority:
Pace Huntersville Quality Office

Client Name: Stm

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

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

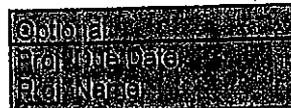
Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used: IR Gun T1102 T1401 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Temp Correction Factor T1102: No Correction T1301: No Correction

Corrected Cooler Temp.: 1.7 °C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C



Date and initials of person examining contents: 7-15-14

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	<u>AMTB</u>	Date:	<u>7-15-14</u>
SRF Review:	<u>AMTB</u>	Date:	<u>7-15-14</u>

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)





CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: S+ME Inc		Report To: Roger Smith		Attention: Barbara Ellington	
Address: 9751 Southern Pine Blvd Charlotte, NC		Copy To:		Company Name: S+ME Inc	
Email To: rsmith@smi-inc.com		Purchase Order No.: 60705		Address: 9751 Southern Pine Blvd.	
Phone: 704-525-4716		Project Name: 300-314 N College St		Pace Quote Reference:	
Requested Due Date/TAT: 5/10		Project Number: 4335-A-152		Pace Project Manager:	
				Pace Profile #:	
				Requested Analysis Filtered (Y/N): 4	
				REGULATORY AGENCY	
				<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
				Site Location STATE: NC	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives		Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./Lab ID.
			COMPOSITE START	COMPOSITE ENDS			DATE	TIME				
1	EDV-1	SL C	DATE	TIME	DATE	TIME	DATE	TIME	X	X	X	DB1
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
		S+ME Inc		7/14/14		1735		S+ME Inc		7/14/14		1735		Y	
		S+ME Inc		7/14/14		1830		S+ME Inc		7/14/14		1830		Y	

Temp in °C: _____

Received on Ice (Y/N): _____

Custody Sealed Cooler (Y/N): _____

Samples Intact (Y/N): _____

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Seth Y. Dunt

SIGNATURE OF SAMPLER: [Signature]

DATE Signed (MM/DD/YYYY): 07/14/14

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

APPENDIX V

Laboratory Report – Sub-slab Vapor Samples

July 29, 2014

Roger Smith
S&ME Inc. Charlotte, NC
9751 Southern Pine Blvd.
Charlotte, NC 28273

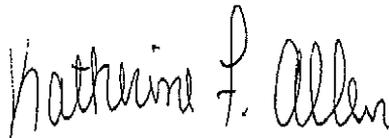
Project Location: 314 N. College St
Client Job Number:
Project Number: 4335-14-152
Laboratory Work Order Number: 14G0883

Enclosed are results of analyses for samples received by the laboratory on July 18, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa A. Worthington
Project Manager



QA Officer
Katherine Allen



Laboratory Manager
Daren Damboragian



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

REPORT DATE: 7/29/2014

S&ME Inc. Charlotte, NC
9751 Southern Pine Blvd.
Charlotte, NC 28273
ATTN: Roger Smith

PURCHASE ORDER NUMBER: 60704

PROJECT NUMBER: 4335-14-152

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14G0883

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 314 N. College St

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SV-1 Patio, Behind bar at Republic	14G0883-01	Sub Slab		EPA TO-15	
SV-3 Phoenix	14G0883-02	Sub Slab		EPA TO-15	
SV-4 Cosmos @ 6th Street	14G0883-03	Sub Slab		EPA TO-15	
SV-5 Cosmos @ College Street	14G0883-04	Sub Slab		EPA TO-15	
SV-2 Basement	14G0883-05	Sub Slab		EPA TO-15	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15

Qualifications:

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

Benzyl chloride

B101128-BS1

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Ethanol

14G0883-01[SV-1 Patio, Behind bar at Republic], 14G0883-02[SV-3 Phoenix], 14G0883-03[SV-4 Cosmos @ 6th Street], 14G0883-04[SV-5 Cosmos @ College Street], 14G0883-05[SV-2 Basement], B101128-BS1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,1,2,2-Tetrachloroethane, 1,2,4-Trichlorobenzene, 1,2-Dichloropropane, Hexachlorobutadiene, Naphthalene

14G0883-01[SV-1 Patio, Behind bar at Republic], 14G0883-02[SV-3 Phoenix], 14G0883-03[SV-4 Cosmos @ 6th Street], 14G0883-04[SV-5 Cosmos @ College Street], 14G0883-05[SV-2 Basement], B101128-BLK1, B101128-BS1

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Acetone

14G0883-01[SV-1 Patio, Behind bar at Republic], 14G0883-02[SV-3 Phoenix], 14G0883-03[SV-4 Cosmos @ 6th Street], 14G0883-04[SV-5 Cosmos @ College Street], 14G0883-05[SV-2 Basement], B101128-BS1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing. I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager

ANALYTICAL RESULTS

Project Location: 314 N. College St
 Date Received: 7/18/2014
 Field Sample #: SV-1 Patio, Behind bar at Republic
 Sample ID: 14G0883-01
 Sample Matrix: Sub Slab
 Sampled: 7/14/2014 12:12

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1100
 Canister Size: 6 liter
 Flow Controller ID: 4244
 Sample Type: 1 hr

Work Order: 14G0883
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): -2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
		RL	MDL		Results	RL	MDL		Analyzed		
Acetone	82	4.0	1.4	V-06	190	9.5	3.3	2	7/24/14 2:34	TPH	
Benzene	0.55	0.10	0.052		1.8	0.32	0.17	2	7/24/14 2:34	TPH	
Benzyl chloride	ND	0.10	0.019		ND	0.52	0.10	2	7/24/14 2:34	TPH	
Bromodichloromethane	ND	0.10	0.022		ND	0.67	0.15	2	7/24/14 2:34	TPH	
Bromoform	ND	0.10	0.019		ND	1.0	0.20	2	7/24/14 2:34	TPH	
Bromomethane	ND	0.10	0.069		ND	0.39	0.27	2	7/24/14 2:34	TPH	
1,3-Butadiene	ND	0.10	0.051		ND	0.22	0.11	2	7/24/14 2:34	TPH	
2-Butanone (MEK)	6.8	4.0	0.075		20	12	0.22	2	7/24/14 2:34	TPH	
Carbon Disulfide	2.1	1.0	0.034		6.7	3.1	0.11	2	7/24/14 2:34	TPH	
Carbon Tetrachloride	0.066	0.10	0.024	J	0.42	0.63	0.15	2	7/24/14 2:34	TPH	
Chlorobenzene	ND	0.10	0.035		ND	0.46	0.16	2	7/24/14 2:34	TPH	
Chloroethane	ND	0.10	0.038		ND	0.26	0.10	2	7/24/14 2:34	TPH	
Chloroform	0.54	0.10	0.023		2.6	0.49	0.11	2	7/24/14 2:34	TPH	
Chloromethane	0.28	0.20	0.044		0.58	0.41	0.090	2	7/24/14 2:34	TPH	
Cyclohexane	0.22	0.10	0.057		0.76	0.34	0.20	2	7/24/14 2:34	TPH	
Dibromochloromethane	ND	0.10	0.027		ND	0.85	0.23	2	7/24/14 2:34	TPH	
1,2-Dibromoethane (EDB)	ND	0.10	0.022		ND	0.77	0.17	2	7/24/14 2:34	TPH	
1,2-Dichlorobenzene	ND	0.10	0.027		ND	0.60	0.16	2	7/24/14 2:34	TPH	
1,3-Dichlorobenzene	ND	0.10	0.022		ND	0.60	0.13	2	7/24/14 2:34	TPH	
1,4-Dichlorobenzene	ND	0.10	0.025		ND	0.60	0.15	2	7/24/14 2:34	TPH	
Dichlorodifluoromethane (Freon 12)	0.89	0.10	0.043		4.4	0.49	0.21	2	7/24/14 2:34	TPH	
1,1-Dichloroethane	ND	0.10	0.028		ND	0.40	0.11	2	7/24/14 2:34	TPH	
1,2-Dichloroethane	ND	0.10	0.028		ND	0.40	0.11	2	7/24/14 2:34	TPH	
1,1-Dichloroethylene	ND	0.10	0.024		ND	0.40	0.097	2	7/24/14 2:34	TPH	
cis-1,2-Dichloroethylene	ND	0.10	0.038		ND	0.40	0.15	2	7/24/14 2:34	TPH	
trans-1,2-Dichloroethylene	ND	0.10	0.026		ND	0.40	0.10	2	7/24/14 2:34	TPH	
1,2-Dichloropropane	ND	0.10	0.035	V-05	ND	0.46	0.16	2	7/24/14 2:34	TPH	
cis-1,3-Dichloropropene	ND	0.10	0.027		ND	0.45	0.12	2	7/24/14 2:34	TPH	
trans-1,3-Dichloropropene	ND	0.10	0.027		ND	0.45	0.12	2	7/24/14 2:34	TPH	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.024		ND	0.70	0.17	2	7/24/14 2:34	TPH	
1,4-Dioxane	ND	1.0	0.64		ND	3.6	2.3	2	7/24/14 2:34	TPH	
Ethanol	170	4.0	1.8	L-05	330	7.5	3.4	2	7/24/14 2:34	TPH	
Ethyl Acetate	ND	0.10	0.075		ND	0.36	0.27	2	7/24/14 2:34	TPH	
Ethylbenzene	0.32	0.10	0.028		1.4	0.43	0.12	2	7/24/14 2:34	TPH	
4-Ethyltoluene	0.11	0.10	0.023		0.56	0.49	0.11	2	7/24/14 2:34	TPH	
Heptane	0.18	0.10	0.032		0.72	0.41	0.13	2	7/24/14 2:34	TPH	
Hexachlorobutadiene	ND	0.10	0.038	V-05	ND	1.1	0.40	2	7/24/14 2:34	TPH	
Hexane	0.33	4.0	0.18	J	1.2	14	0.62	2	7/24/14 2:34	TPH	
2-Hexanone (MBK)	0.51	0.10	0.026		2.1	0.41	0.10	2	7/24/14 2:34	TPH	
Isopropanol	3.3	4.0	0.12	J	8.2	9.8	0.30	2	7/24/14 2:34	TPH	
Methyl tert-Butyl Ether (MTBE)	0.044	0.10	0.031	J	0.16	0.36	0.11	2	7/24/14 2:34	TPH	
Methylene Chloride	5.3	1.0	0.12		19	3.5	0.42	2	7/24/14 2:34	TPH	
4-Methyl-2-pentanone (MIBK)	0.40	0.10	0.024		1.6	0.41	0.098	2	7/24/14 2:34	TPH	
Naphthalene	ND	0.10	0.054	V-05	ND	0.52	0.29	2	7/24/14 2:34	TPH	
Propene	3.1	4.0	0.31	J	5.3	6.9	0.53	2	7/24/14 2:34	TPH	
Styrene	0.22	0.10	0.019		0.94	0.43	0.083	2	7/24/14 2:34	TPH	
1,1,2,2-Tetrachloroethane	ND	0.10	0.024	V-05	ND	0.69	0.16	2	7/24/14 2:34	TPH	

ANALYTICAL RESULTS

Project Location: 314 N. College St
 Date Received: 7/18/2014
 Field Sample #: SV-1 Patio, Behind bar at Republic
 Sample ID: 14G0883-01
 Sample Matrix: Sub Slab
 Sampled: 7/14/2014 12:12

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1100
 Canister Size: 6 liter
 Flow Controller ID: 4244
 Sample Type: 1 hr

Work Order: 14G0883
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): -2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.30	0.10	0.028		2.1	0.68	0.19	2	7/24/14	2:34	TPH
Tetrahydrofuran	1.2	0.10	0.042		3.6	0.29	0.12	2	7/24/14	2:34	TPH
Toluene	2.2	0.10	0.031		8.3	0.38	0.12	2	7/24/14	2:34	TPH
1,2,4-Trichlorobenzene	ND	0.10	0.038	V-05	ND	0.74	0.28	2	7/24/14	2:34	TPH
1,1,1-Trichloroethane	1.4	0.10	0.018		7.6	0.55	0.098	2	7/24/14	2:34	TPH
1,1,2-Trichloroethane	ND	0.10	0.030		ND	0.55	0.17	2	7/24/14	2:34	TPH
Trichloroethylene	0.25	0.10	0.030		1.4	0.54	0.16	2	7/24/14	2:34	TPH
Trichlorofluoromethane (Freon 11)	0.87	0.10	0.035		4.9	0.56	0.20	2	7/24/14	2:34	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.076	0.10	0.028	J	0.58	0.77	0.21	2	7/24/14	2:34	TPH
1,2,4-Trimethylbenzene	0.59	0.10	0.025		2.9	0.49	0.12	2	7/24/14	2:34	TPH
1,3,5-Trimethylbenzene	0.20	0.10	0.020		0.96	0.49	0.098	2	7/24/14	2:34	TPH
Vinyl Acetate	ND	2.0	0.051		ND	7.0	0.18	2	7/24/14	2:34	TPH
Vinyl Chloride	ND	0.10	0.043		ND	0.26	0.11	2	7/24/14	2:34	TPH
m&p-Xylene	1.2	0.20	0.050		5.1	0.87	0.22	2	7/24/14	2:34	TPH
o-Xylene	0.46	0.10	0.029		2.0	0.43	0.13	2	7/24/14	2:34	TPH

Surrogates	% Recovery	% REC Limits	Date/Time
4-Bromofluorobenzene (1)	101	70-130	7/24/14 2:34

ANALYTICAL RESULTS

Project Location: 314 N. College St
 Date Received: 7/18/2014
 Field Sample #: SV-3 Phoenix
 Sample ID: 14G0883-02
 Sample Matrix: Sub Slab
 Sampled: 7/14/2014 13:12

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1158
 Canister Size: 6 liter
 Flow Controller ID: 4243
 Sample Type: 1 hr

Work Order: 14G0883
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): -1.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv				ug/m3				Date/Time		Analyst
	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed		
Acetone	85	4.0	1.4	V-06	200	9.5	3.3	2	7/24/14 3:15	TPH	
Benzene	0.10	0.10	0.052		0.33	0.32	0.17	2	7/24/14 3:15	TPH	
Benzyl chloride	ND	0.10	0.019		ND	0.52	0.10	2	7/24/14 3:15	TPH	
Bromodichloromethane	ND	0.10	0.022		ND	0.67	0.15	2	7/24/14 3:15	TPH	
Bromoforn	ND	0.10	0.019		ND	1.0	0.20	2	7/24/14 3:15	TPH	
Bromomethane	ND	0.10	0.069		ND	0.39	0.27	2	7/24/14 3:15	TPH	
1,3-Butadiene	ND	0.10	0.051		ND	0.22	0.11	2	7/24/14 3:15	TPH	
2-Butanone (MEK)	1.9	4.0	0.075	J	5.6	12	0.22	2	7/24/14 3:15	TPH	
Carbon Disulfide	0.98	1.0	0.034	J	3.1	3.1	0.11	2	7/24/14 3:15	TPH	
Carbon Tetrachloride	0.048	0.10	0.024	J	0.30	0.63	0.15	2	7/24/14 3:15	TPH	
Chlorobenzene	ND	0.10	0.035		ND	0.46	0.16	2	7/24/14 3:15	TPH	
Chloroethane	ND	0.10	0.038		ND	0.26	0.10	2	7/24/14 3:15	TPH	
Chloroform	0.25	0.10	0.023		1.2	0.49	0.11	2	7/24/14 3:15	TPH	
Chloromethane	0.098	0.20	0.044	J	0.20	0.41	0.090	2	7/24/14 3:15	TPH	
Cyclohexane	ND	0.10	0.057		ND	0.34	0.20	2	7/24/14 3:15	TPH	
Dibromochloromethane	ND	0.10	0.027		ND	0.85	0.23	2	7/24/14 3:15	TPH	
1,2-Dibromoethane (EDB)	ND	0.10	0.022		ND	0.77	0.17	2	7/24/14 3:15	TPH	
1,2-Dichlorobenzene	ND	0.10	0.027		ND	0.60	0.16	2	7/24/14 3:15	TPH	
1,3-Dichlorobenzene	ND	0.10	0.022		ND	0.60	0.13	2	7/24/14 3:15	TPH	
1,4-Dichlorobenzene	ND	0.10	0.025		ND	0.60	0.15	2	7/24/14 3:15	TPH	
Dichlorodifluoromethane (Freon 12)	0.53	0.10	0.043		2.6	0.49	0.21	2	7/24/14 3:15	TPH	
1,1-Dichloroethane	ND	0.10	0.028		ND	0.40	0.11	2	7/24/14 3:15	TPH	
1,2-Dichloroethane	ND	0.10	0.028		ND	0.40	0.11	2	7/24/14 3:15	TPH	
1,1-Dichloroethylene	ND	0.10	0.024		ND	0.40	0.097	2	7/24/14 3:15	TPH	
cis-1,2-Dichloroethylene	ND	0.10	0.038		ND	0.40	0.15	2	7/24/14 3:15	TPH	
trans-1,2-Dichloroethylene	ND	0.10	0.026		ND	0.40	0.10	2	7/24/14 3:15	TPH	
1,2-Dichloropropane	ND	0.10	0.035	V-05	ND	0.46	0.16	2	7/24/14 3:15	TPH	
cis-1,3-Dichloropropene	ND	0.10	0.027		ND	0.45	0.12	2	7/24/14 3:15	TPH	
trans-1,3-Dichloropropene	ND	0.10	0.027		ND	0.45	0.12	2	7/24/14 3:15	TPH	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.024		ND	0.70	0.17	2	7/24/14 3:15	TPH	
1,4-Dioxane	ND	1.0	0.64		ND	3.6	2.3	2	7/24/14 3:15	TPH	
Ethanol	270	4.0	1.8	L-05	510	7.5	3.4	2	7/24/14 3:15	TPH	
Ethyl Acetate	ND	0.10	0.075		ND	0.36	0.27	2	7/24/14 3:15	TPH	
Ethylbenzene	0.098	0.10	0.028	J	0.43	0.43	0.12	2	7/24/14 3:15	TPH	
4-Ethyltoluene	0.076	0.10	0.023	J	0.37	0.49	0.11	2	7/24/14 3:15	TPH	
Heptane	ND	0.10	0.032		ND	0.41	0.13	2	7/24/14 3:15	TPH	
Hexachlorobutadiene	ND	0.10	0.038	V-05	ND	1.1	0.40	2	7/24/14 3:15	TPH	
Hexane	0.43	4.0	0.18	J	1.5	14	0.62	2	7/24/14 3:15	TPH	
2-Hexanone (MBK)	0.11	0.10	0.026		0.46	0.41	0.10	2	7/24/14 3:15	TPH	
Isopropanol	74	4.0	0.12		180	9.8	0.30	2	7/24/14 3:15	TPH	
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.031		ND	0.36	0.11	2	7/24/14 3:15	TPH	
Methylene Chloride	1.0	1.0	0.12	J	3.5	3.5	0.42	2	7/24/14 3:15	TPH	
4-Methyl-2-pentanone (MIBK)	0.30	0.10	0.024		1.2	0.41	0.098	2	7/24/14 3:15	TPH	
Naphthalene	ND	0.10	0.054	V-05	ND	0.52	0.29	2	7/24/14 3:15	TPH	
Propene	0.70	4.0	0.31	J	1.2	6.9	0.53	2	7/24/14 3:15	TPH	
Styrene	0.028	0.10	0.019	J	0.12	0.43	0.083	2	7/24/14 3:15	TPH	
1,1,2,2-Tetrachloroethane	ND	0.10	0.024	V-05	ND	0.69	0.16	2	7/24/14 3:15	TPH	

ANALYTICAL RESULTS

Project Location: 314 N. College St
 Date Received: 7/18/2014
 Field Sample #: SV-4 Cosmos @ 6th Street
 Sample ID: 14G0883-03
 Sample Matrix: Sub Slab
 Sampled: 7/14/2014 14:05

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1336
 Canister Size: 6 liter
 Flow Controller ID: 4241
 Sample Type: 1 hr

Work Order: 14G0883
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): -1.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	93	4.0	1.4	V-06	220	9.5	3.3	2	7/24/14	3:56	TPH
Benzene	6.3	0.10	0.052		20	0.32	0.17	2	7/24/14	3:56	TPH
Benzyl chloride	ND	0.10	0.019		ND	0.52	0.10	2	7/24/14	3:56	TPH
Bromodichloromethane	ND	0.10	0.022		ND	0.67	0.15	2	7/24/14	3:56	TPH
Bromoform	ND	0.10	0.019		ND	1.0	0.20	2	7/24/14	3:56	TPH
Bromomethane	ND	0.10	0.069		ND	0.39	0.27	2	7/24/14	3:56	TPH
1,3-Butadiene	ND	0.10	0.051		ND	0.22	0.11	2	7/24/14	3:56	TPH
2-Butanone (MEK)	2.4	4.0	0.075	J	7.0	12	0.22	2	7/24/14	3:56	TPH
Carbon Disulfide	1.8	1.0	0.034		5.6	3.1	0.11	2	7/24/14	3:56	TPH
Carbon Tetrachloride	0.046	0.10	0.024	J	0.29	0.63	0.15	2	7/24/14	3:56	TPH
Chlorobenzene	ND	0.10	0.035		ND	0.46	0.16	2	7/24/14	3:56	TPH
Chloroethane	0.23	0.10	0.038		0.61	0.26	0.10	2	7/24/14	3:56	TPH
Chloroform	2.7	0.10	0.023		13	0.49	0.11	2	7/24/14	3:56	TPH
Chloromethane	0.25	0.20	0.044		0.52	0.41	0.090	2	7/24/14	3:56	TPH
Cyclohexane	11	0.10	0.057		37	0.34	0.20	2	7/24/14	3:56	TPH
Dibromochloromethane	ND	0.10	0.027		ND	0.85	0.23	2	7/24/14	3:56	TPH
1,2-Dibromoethane (EDB)	ND	0.10	0.022		ND	0.77	0.17	2	7/24/14	3:56	TPH
1,2-Dichlorobenzene	ND	0.10	0.027		ND	0.60	0.16	2	7/24/14	3:56	TPH
1,3-Dichlorobenzene	ND	0.10	0.022		ND	0.60	0.13	2	7/24/14	3:56	TPH
1,4-Dichlorobenzene	ND	0.10	0.025		ND	0.60	0.15	2	7/24/14	3:56	TPH
Dichlorodifluoromethane (Freon 12)	3.2	0.10	0.043		16	0.49	0.21	2	7/24/14	3:56	TPH
1,1-Dichloroethane	ND	0.10	0.028		ND	0.40	0.11	2	7/24/14	3:56	TPH
1,2-Dichloroethane	ND	0.10	0.028		ND	0.40	0.11	2	7/24/14	3:56	TPH
1,1-Dichloroethylene	ND	0.10	0.024		ND	0.40	0.097	2	7/24/14	3:56	TPH
cis-1,2-Dichloroethylene	ND	0.10	0.038		ND	0.40	0.15	2	7/24/14	3:56	TPH
trans-1,2-Dichloroethylene	ND	0.10	0.026		ND	0.40	0.10	2	7/24/14	3:56	TPH
1,2-Dichloropropane	ND	0.10	0.035	V-05	ND	0.46	0.16	2	7/24/14	3:56	TPH
cis-1,3-Dichloropropene	ND	0.10	0.027		ND	0.45	0.12	2	7/24/14	3:56	TPH
trans-1,3-Dichloropropene	ND	0.10	0.027		ND	0.45	0.12	2	7/24/14	3:56	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.024		ND	0.70	0.17	2	7/24/14	3:56	TPH
1,4-Dioxane	ND	1.0	0.64		ND	3.6	2.3	2	7/24/14	3:56	TPH
Ethanol	40	4.0	1.8	L-05	76	7.5	3.4	2	7/24/14	3:56	TPH
Ethyl Acetate	ND	0.10	0.075		ND	0.36	0.27	2	7/24/14	3:56	TPH
Ethylbenzene	0.19	0.10	0.028		0.83	0.43	0.12	2	7/24/14	3:56	TPH
4-Ethyltoluene	ND	0.10	0.023		ND	0.49	0.11	2	7/24/14	3:56	TPH
Heptane	1.7	0.10	0.032		7.0	0.41	0.13	2	7/24/14	3:56	TPH
Hexachlorobutadiene	ND	0.10	0.038	V-05	ND	1.1	0.40	2	7/24/14	3:56	TPH
Hexane	7.8	4.0	0.18		27	14	0.62	2	7/24/14	3:56	TPH
2-Hexanone (MBK)	ND	0.10	0.026		ND	0.41	0.10	2	7/24/14	3:56	TPH
Isopropanol	ND	4.0	0.12		ND	9.8	0.30	2	7/24/14	3:56	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.031		ND	0.36	0.11	2	7/24/14	3:56	TPH
Methylene Chloride	0.35	1.0	0.12	J	1.2	3.5	0.42	2	7/24/14	3:56	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.024		ND	0.41	0.098	2	7/24/14	3:56	TPH
Naphthalene	ND	0.10	0.054	V-05	ND	0.52	0.29	2	7/24/14	3:56	TPH
Propene	18	4.0	0.31		31	6.9	0.53	2	7/24/14	3:56	TPH
Styrene	ND	0.10	0.019		ND	0.43	0.083	2	7/24/14	3:56	TPH
1,1,2,2-Tetrachloroethane	ND	0.10	0.024	V-05	ND	0.69	0.16	2	7/24/14	3:56	TPH

ANALYTICAL RESULTS

Project Location: 314 N. College St
 Date Received: 7/18/2014
 Field Sample #: SV-4 Cosmos @ 6th Street
 Sample ID: 14G0883-03
 Sample Matrix: Sub Slab
 Sampled: 7/14/2014 14:05

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1336
 Canister Size: 6 liter
 Flow Controller ID: 4241
 Sample Type: 1 hr

Work Order: 14G0883
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): -1.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv				ug/m3				Date/Time		Analyst
	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed		
Tetrachloroethylene	0.056	0.10	0.028	J	0.38	0.68	0.19	2	7/24/14 3:56	TPH	
Tetrahydrofuran	ND	0.10	0.042		ND	0.29	0.12	2	7/24/14 3:56	TPH	
Toluene	7.4	0.10	0.031		28	0.38	0.12	2	7/24/14 3:56	TPH	
1,2,4-Trichlorobenzene	ND	0.10	0.038	V-05	ND	0.74	0.28	2	7/24/14 3:56	TPH	
1,1,1-Trichloroethane	0.026	0.10	0.018	J	0.14	0.55	0.098	2	7/24/14 3:56	TPH	
1,1,2-Trichloroethane	ND	0.10	0.030		ND	0.55	0.17	2	7/24/14 3:56	TPH	
Trichloroethylene	ND	0.10	0.030		ND	0.54	0.16	2	7/24/14 3:56	TPH	
Trichlorofluoromethane (Freon 11)	0.55	0.10	0.035		3.1	0.56	0.20	2	7/24/14 3:56	TPH	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.11	0.10	0.028		0.87	0.77	0.21	2	7/24/14 3:56	TPH	
1,2,4-Trimethylbenzene	0.13	0.10	0.025		0.62	0.49	0.12	2	7/24/14 3:56	TPH	
1,3,5-Trimethylbenzene	0.070	0.10	0.020	J	0.34	0.49	0.098	2	7/24/14 3:56	TPH	
Vinyl Acetate	ND	2.0	0.051		ND	7.0	0.18	2	7/24/14 3:56	TPH	
Vinyl Chloride	ND	0.10	0.043		ND	0.26	0.11	2	7/24/14 3:56	TPH	
m&p-Xylene	1.1	0.20	0.050		4.9	0.87	0.22	2	7/24/14 3:56	TPH	
o-Xylene	0.43	0.10	0.029		1.9	0.43	0.13	2	7/24/14 3:56	TPH	

Surrogates	% Recovery	% REC Limits	Date/Time
4-Bromofluorobenzene (1)	101	70-130	7/24/14 3:56

ANALYTICAL RESULTS

Project Location: 314 N. College St
 Date Received: 7/18/2014
 Field Sample #: SV-5 Cosmos @ College Street
 Sample ID: 14G0883-04
 Sample Matrix: Sub Slab
 Sampled: 7/14/2014 14:31

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1699
 Canister Size: 6 liter
 Flow Controller ID: 4240
 Sample Type: 1 hr

Work Order: 14G0883
 Initial Vacuum(in Hg): -26
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): -2.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	67	4.0	1.4	V-06	160	9.5	3.3	2	7/24/14 4:37	TPH	
Benzene	0.32	0.10	0.052		1.0	0.32	0.17	2	7/24/14 4:37	TPH	
Benzyl chloride	ND	0.10	0.019		ND	0.52	0.10	2	7/24/14 4:37	TPH	
Bromodichloromethane	ND	0.10	0.022		ND	0.67	0.15	2	7/24/14 4:37	TPH	
Bromoform	ND	0.10	0.019		ND	1.0	0.20	2	7/24/14 4:37	TPH	
Bromomethane	ND	0.10	0.069		ND	0.39	0.27	2	7/24/14 4:37	TPH	
1,3-Butadiene	ND	0.10	0.051		ND	0.22	0.11	2	7/24/14 4:37	TPH	
2-Butanone (MEK)	3.2	4.0	0.075	J	9.4	12	0.22	2	7/24/14 4:37	TPH	
Carbon Disulfide	1.9	1.0	0.034		5.9	3.1	0.11	2	7/24/14 4:37	TPH	
Carbon Tetrachloride	0.046	0.10	0.024	J	0.29	0.63	0.15	2	7/24/14 4:37	TPH	
Chlorobenzene	ND	0.10	0.035		ND	0.46	0.16	2	7/24/14 4:37	TPH	
Chloroethane	ND	0.10	0.038		ND	0.26	0.10	2	7/24/14 4:37	TPH	
Chloroform	0.18	0.10	0.023		0.86	0.49	0.11	2	7/24/14 4:37	TPH	
Chloromethane	0.17	0.20	0.044	J	0.36	0.41	0.090	2	7/24/14 4:37	TPH	
Cyclohexane	0.19	0.10	0.057		0.66	0.34	0.20	2	7/24/14 4:37	TPH	
Dibromochloromethane	ND	0.10	0.027		ND	0.85	0.23	2	7/24/14 4:37	TPH	
1,2-Dibromoethane (EDB)	ND	0.10	0.022		ND	0.77	0.17	2	7/24/14 4:37	TPH	
1,2-Dichlorobenzene	ND	0.10	0.027		ND	0.60	0.16	2	7/24/14 4:37	TPH	
1,3-Dichlorobenzene	ND	0.10	0.022		ND	0.60	0.13	2	7/24/14 4:37	TPH	
1,4-Dichlorobenzene	ND	0.10	0.025		ND	0.60	0.15	2	7/24/14 4:37	TPH	
Dichlorodifluoromethane (Freon 12)	1.2	0.10	0.043		6.1	0.49	0.21	2	7/24/14 4:37	TPH	
1,1-Dichloroethane	ND	0.10	0.028		ND	0.40	0.11	2	7/24/14 4:37	TPH	
1,2-Dichloroethane	ND	0.10	0.028		ND	0.40	0.11	2	7/24/14 4:37	TPH	
1,1-Dichloroethylene	ND	0.10	0.024		ND	0.40	0.097	2	7/24/14 4:37	TPH	
cis-1,2-Dichloroethylene	ND	0.10	0.038		ND	0.40	0.15	2	7/24/14 4:37	TPH	
trans-1,2-Dichloroethylene	ND	0.10	0.026		ND	0.40	0.10	2	7/24/14 4:37	TPH	
1,2-Dichloropropane	ND	0.10	0.035	V-05	ND	0.46	0.16	2	7/24/14 4:37	TPH	
cis-1,3-Dichloropropene	ND	0.10	0.027		ND	0.45	0.12	2	7/24/14 4:37	TPH	
trans-1,3-Dichloropropene	ND	0.10	0.027		ND	0.45	0.12	2	7/24/14 4:37	TPH	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.024		ND	0.70	0.17	2	7/24/14 4:37	TPH	
1,4-Dioxane	ND	1.0	0.64		ND	3.6	2.3	2	7/24/14 4:37	TPH	
Ethanol	45	4.0	1.8	L-05	84	7.5	3.4	2	7/24/14 4:37	TPH	
Ethyl Acetate	ND	0.10	0.075		ND	0.36	0.27	2	7/24/14 4:37	TPH	
Ethylbenzene	0.17	0.10	0.028		0.72	0.43	0.12	2	7/24/14 4:37	TPH	
4-Ethyltoluene	0.038	0.10	0.023	J	0.19	0.49	0.11	2	7/24/14 4:37	TPH	
Heptane	0.12	0.10	0.032		0.49	0.41	0.13	2	7/24/14 4:37	TPH	
Hexachlorobutadiene	ND	0.10	0.038	V-05	ND	1.1	0.40	2	7/24/14 4:37	TPH	
Hexane	0.39	4.0	0.18	J	1.4	14	0.62	2	7/24/14 4:37	TPH	
2-Hexanone (MBK)	0.29	0.10	0.026		1.2	0.41	0.10	2	7/24/14 4:37	TPH	
Isopropanol	1.2	4.0	0.12	J	2.9	9.8	0.30	2	7/24/14 4:37	TPH	
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.031		ND	0.36	0.11	2	7/24/14 4:37	TPH	
Methylene Chloride	0.57	1.0	0.12	J	2.0	3.5	0.42	2	7/24/14 4:37	TPH	
4-Methyl-2-pentanone (MIBK)	0.18	0.10	0.024		0.75	0.41	0.098	2	7/24/14 4:37	TPH	
Naphthalene	ND	0.10	0.054	V-05	ND	0.52	0.29	2	7/24/14 4:37	TPH	
Propene	1.2	4.0	0.31	J	2.1	6.9	0.53	2	7/24/14 4:37	TPH	
Styrene	0.030	0.10	0.019	J	0.13	0.43	0.083	2	7/24/14 4:37	TPH	
1,1,2,2-Tetrachloroethane	ND	0.10	0.024	V-05	ND	0.69	0.16	2	7/24/14 4:37	TPH	

ANALYTICAL RESULTS

Project Location: 314 N. College St
 Date Received: 7/18/2014
 Field Sample #: SY-5 Cosmos @ College Street
 Sample ID: 14G0883-04
 Sample Matrix: Sub Slab
 Sampled: 7/14/2014 14:31

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1699
 Canister Size: 6 liter
 Flow Controller ID: 4240
 Sample Type: 1 hr

Work Order: 14G0883
 Initial Vacuum(in Hg): -26
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): -2.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.25	0.10	0.028		1.7	0.68	0.19	2	7/24/14 4:37	TPH	
Tetrahydrofuran	ND	0.10	0.042		ND	0.29	0.12	2	7/24/14 4:37	TPH	
Toluene	0.62	0.10	0.031		2.3	0.38	0.12	2	7/24/14 4:37	TPH	
1,2,4-Trichlorobenzene	ND	0.10	0.038	V-05	ND	0.74	0.28	2	7/24/14 4:37	TPH	
1,1,1-Trichloroethane	0.52	0.10	0.018		2.8	0.55	0.098	2	7/24/14 4:37	TPH	
1,1,2-Trichloroethane	ND	0.10	0.030		ND	0.55	0.17	2	7/24/14 4:37	TPH	
Trichloroethylene	ND	0.10	0.030		ND	0.54	0.16	2	7/24/14 4:37	TPH	
Trichlorofluoromethane (Freon 11)	1.1	0.10	0.035		6.2	0.56	0.20	2	7/24/14 4:37	TPH	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.094	0.10	0.028	J	0.72	0.77	0.21	2	7/24/14 4:37	TPH	
1,2,4-Trimethylbenzene	0.22	0.10	0.025		1.1	0.49	0.12	2	7/24/14 4:37	TPH	
1,3,5-Trimethylbenzene	0.086	0.10	0.020	J	0.42	0.49	0.098	2	7/24/14 4:37	TPH	
Vinyl Acetate	ND	2.0	0.051		ND	7.0	0.18	2	7/24/14 4:37	TPH	
Vinyl Chloride	ND	0.10	0.043		ND	0.26	0.11	2	7/24/14 4:37	TPH	
m&p-Xylene	0.84	0.20	0.050		3.6	0.87	0.22	2	7/24/14 4:37	TPH	
o-Xylene	0.48	0.10	0.029		2.1	0.43	0.13	2	7/24/14 4:37	TPH	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	99.7	70-130	7/24/14 4:37

ANALYTICAL RESULTS

Project Location: 314 N. College St
 Date Received: 7/18/2014
 Field Sample #: SV-2 Basement
 Sample ID: 14G0883-05
 Sample Matrix: Sub Slab
 Sampled: 7/14/2014 15:02

Sample Description/Location:
 Sub Description/Location:
 Canister ID: I732
 Canister Size: 6 liter
 Flow Controller ID: 4242
 Sample Type: 1 hr

Work Order: 14G0883
 Initial Vacuum(in Hg): -27
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): -1.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	42	4.0	1.4	V-06	100	9.5	3.3	2	7/24/14	5:18	TPH
Benzene	1.3	0.10	0.052		4.2	0.32	0.17	2	7/24/14	5:18	TPH
Benzyl chloride	ND	0.10	0.019		ND	0.52	0.10	2	7/24/14	5:18	TPH
Bromodichloromethane	ND	0.10	0.022		ND	0.67	0.15	2	7/24/14	5:18	TPH
Bromoform	ND	0.10	0.019		ND	1.0	0.20	2	7/24/14	5:18	TPH
Bromomethane	ND	0.10	0.069		ND	0.39	0.27	2	7/24/14	5:18	TPH
1,3-Butadiene	ND	0.10	0.051		ND	0.22	0.11	2	7/24/14	5:18	TPH
2-Butanone (MEK)	3.1	4.0	0.075	J	9.2	12	0.22	2	7/24/14	5:18	TPH
Carbon Disulfide	3.7	1.0	0.034		11	3.1	0.11	2	7/24/14	5:18	TPH
Carbon Tetrachloride	0.026	0.10	0.024	J	0.16	0.63	0.15	2	7/24/14	5:18	TPH
Chlorobenzene	ND	0.10	0.035		ND	0.46	0.16	2	7/24/14	5:18	TPH
Chloroethane	ND	0.10	0.038		ND	0.26	0.10	2	7/24/14	5:18	TPH
Chloroform	7.5	0.10	0.023		37	0.49	0.11	2	7/24/14	5:18	TPH
Chloromethane	0.25	0.20	0.044		0.51	0.41	0.090	2	7/24/14	5:18	TPH
Cyclohexane	1.2	0.10	0.057		4.1	0.34	0.20	2	7/24/14	5:18	TPH
Dibromochloromethane	ND	0.10	0.027		ND	0.85	0.23	2	7/24/14	5:18	TPH
1,2-Dibromoethane (EDB)	ND	0.10	0.022		ND	0.77	0.17	2	7/24/14	5:18	TPH
1,2-Dichlorobenzene	ND	0.10	0.027		ND	0.60	0.16	2	7/24/14	5:18	TPH
1,3-Dichlorobenzene	ND	0.10	0.022		ND	0.60	0.13	2	7/24/14	5:18	TPH
1,4-Dichlorobenzene	ND	0.10	0.025		ND	0.60	0.15	2	7/24/14	5:18	TPH
Dichlorodifluoromethane (Freon 12)	0.83	0.10	0.043		4.1	0.49	0.21	2	7/24/14	5:18	TPH
1,1-Dichloroethane	ND	0.10	0.028		ND	0.40	0.11	2	7/24/14	5:18	TPH
1,2-Dichloroethane	ND	0.10	0.028		ND	0.40	0.11	2	7/24/14	5:18	TPH
1,1-Dichloroethylene	0.22	0.10	0.024		0.86	0.40	0.097	2	7/24/14	5:18	TPH
cis-1,2-Dichloroethylene	1.3	0.10	0.038		5.2	0.40	0.15	2	7/24/14	5:18	TPH
trans-1,2-Dichloroethylene	0.12	0.10	0.026		0.46	0.40	0.10	2	7/24/14	5:18	TPH
1,2-Dichloropropane	ND	0.10	0.035	V-05	ND	0.46	0.16	2	7/24/14	5:18	TPH
cis-1,3-Dichloropropene	ND	0.10	0.027		ND	0.45	0.12	2	7/24/14	5:18	TPH
trans-1,3-Dichloropropene	ND	0.10	0.027		ND	0.45	0.12	2	7/24/14	5:18	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.024		ND	0.70	0.17	2	7/24/14	5:18	TPH
1,4-Dioxane	ND	1.0	0.64		ND	3.6	2.3	2	7/24/14	5:18	TPH
Ethanol	14	4.0	1.8	L-05	27	7.5	3.4	2	7/24/14	5:18	TPH
Ethyl Acetate	ND	0.10	0.075		ND	0.36	0.27	2	7/24/14	5:18	TPH
Ethylbenzene	0.29	0.10	0.028		1.3	0.43	0.12	2	7/24/14	5:18	TPH
4-Ethyltoluene	0.33	0.10	0.023		1.6	0.49	0.11	2	7/24/14	5:18	TPH
Heptane	3.3	0.10	0.032		14	0.41	0.13	2	7/24/14	5:18	TPH
Hexachlorobutadiene	ND	0.10	0.038	V-05	ND	1.1	0.40	2	7/24/14	5:18	TPH
Hexane	ND	4.0	0.18		ND	14	0.62	2	7/24/14	5:18	TPH
2-Hexanone (MBK)	ND	0.10	0.026		ND	0.41	0.10	2	7/24/14	5:18	TPH
Isopropanol	0.51	4.0	0.12	J	1.3	9.8	0.30	2	7/24/14	5:18	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.031		ND	0.36	0.11	2	7/24/14	5:18	TPH
Methylene Chloride	1.1	1.0	0.12		3.8	3.5	0.42	2	7/24/14	5:18	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.024		ND	0.41	0.098	2	7/24/14	5:18	TPH
Naphthalene	ND	0.10	0.054	V-05	ND	0.52	0.29	2	7/24/14	5:18	TPH
Propene	50	4.0	0.31		87	6.9	0.53	2	7/24/14	5:18	TPH
Styrene	0.080	0.10	0.019	J	0.34	0.43	0.083	2	7/24/14	5:18	TPH
1,1,2,2-Tetrachloroethane	ND	0.10	0.024	V-05	ND	0.69	0.16	2	7/24/14	5:18	TPH

ANALYTICAL RESULTS

Project Location: 314 N. College St
 Date Received: 7/18/2014
 Field Sample #: SV-2 Basement
 Sample ID: 14G0883-05
 Sample Matrix: Sub Slab
 Sampled: 7/14/2014 15:02

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1732
 Canister Size: 6 liter
 Flow Controller ID: 4242
 Sample Type: 1 hr

Work Order: 14G0883
 Initial Vacuum(in Hg): -27
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): -1.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.078	0.10	0.028	J	0.53	0.68	0.19	2	7/24/14 5:18	TPH	
Tetrahydrofuran	ND	0.10	0.042		ND	0.29	0.12	2	7/24/14 5:18	TPH	
Toluene	1.7	0.10	0.031		6.5	0.38	0.12	2	7/24/14 5:18	TPH	
1,2,4-Trichlorobenzene	ND	0.10	0.038	V-05	ND	0.74	0.28	2	7/24/14 5:18	TPH	
1,1,1-Trichloroethane	ND	0.10	0.018		ND	0.55	0.098	2	7/24/14 5:18	TPH	
1,1,2-Trichloroethane	ND	0.10	0.030		ND	0.55	0.17	2	7/24/14 5:18	TPH	
Trichloroethylene	2.1	0.10	0.030		11	0.54	0.16	2	7/24/14 5:18	TPH	
Trichlorofluoromethane (Freon 11)	0.39	0.10	0.035		2.2	0.56	0.20	2	7/24/14 5:18	TPH	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.068	0.10	0.028	J	0.52	0.77	0.21	2	7/24/14 5:18	TPH	
1,2,4-Trimethylbenzene	0.53	0.10	0.025		2.6	0.49	0.12	2	7/24/14 5:18	TPH	
1,3,5-Trimethylbenzene	0.33	0.10	0.020		1.6	0.49	0.098	2	7/24/14 5:18	TPH	
Vinyl Acetate	ND	2.0	0.051		ND	7.0	0.18	2	7/24/14 5:18	TPH	
Vinyl Chloride	0.050	0.10	0.043	J	0.13	0.26	0.11	2	7/24/14 5:18	TPH	
m&p-Xylene	1.2	0.20	0.050		5.4	0.87	0.22	2	7/24/14 5:18	TPH	
o-Xylene	0.56	0.10	0.029		2.4	0.43	0.13	2	7/24/14 5:18	TPH	

Surrogates	% Recovery	% REC Limits	Date/Time
4-Bromofluorobenzene (1)	105	70-130	7/24/14 5:18

Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
14G0883-01 [SV-1 Patio, Behind bar at Republic]	B101128	1.5	1	N/A	1000	400	300	07/23/14
14G0883-02 [SV-3 Phoenix]	B101128	1.5	1	N/A	1000	400	300	07/23/14
14G0883-03 [SV-4 Cosmos @ 6th Street]	B101128	1.5	1	N/A	1000	400	300	07/23/14
14G0883-04 [SV-5 Cosmos @ College Street]	B101128	1.5	1	N/A	1000	400	300	07/23/14
14G0883-05 [SV-2 Basement]	B101128	1.5	1	N/A	1000	400	300	07/23/14

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	Limit		
Batch B101128 - TO-15 Prep											
Blank (B101128-BLK1) Prepared & Analyzed: 07/23/14											
Acetone	ND	0.80									
Benzene	0.014	0.020									J
Benzyl chloride	ND	0.020									
Bromodichloromethane	ND	0.020									
Bromoform	ND	0.020									
Bromomethane	ND	0.020									
1,3-Butadiene	ND	0.020									
2-Butanone (MEK)	ND	0.80									
Carbon Disulfide	ND	0.20									
Carbon Tetrachloride	ND	0.020									
Chlorobenzene	ND	0.020									
Chloroethane	ND	0.020									
Chloroform	ND	0.020									
Chloromethane	ND	0.040									
Cyclohexane	ND	0.020									
Dibromochloromethane	ND	0.020									
1,2-Dibromoethane (EDB)	ND	0.020									
1,2-Dichlorobenzene	ND	0.020									
1,3-Dichlorobenzene	ND	0.020									
1,4-Dichlorobenzene	ND	0.020									
Dichlorodifluoromethane (Freon 12)	ND	0.020									
1,1-Dichloroethane	ND	0.020									
1,2-Dichloroethane	ND	0.020									
1,1-Dichloroethylene	ND	0.020									
cis-1,2-Dichloroethylene	ND	0.020									
trans-1,2-Dichloroethylene	ND	0.020									
1,2-Dichloropropane	ND	0.020									V-05
cis-1,3-Dichloropropene	ND	0.020									
trans-1,3-Dichloropropene	ND	0.020									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.020									
1,4-Dioxane	ND	0.20									
Ethanol	ND	0.80									
Ethyl Acetate	ND	0.020									
Ethylbenzene	ND	0.020									
4-Ethyltoluene	ND	0.020									
Heptane	ND	0.020									
Hexachlorobutadiene	ND	0.020									V-05
Hexane	ND	0.80									
2-Hexanone (MBK)	ND	0.020									
Isopropanol	ND	0.80									
Methyl tert-Butyl Ether (MTBE)	ND	0.020									
Methylene Chloride	0.038	0.20									J
4-Methyl-2-pentanone (MIBK)	ND	0.020									
Naphthalene	ND	0.020									V-05
Propene	ND	0.80									
Styrene	ND	0.020									

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							
Batch B101128 - TO-15 Prep											
Blank (B101128-BLK1)											
						Prepared & Analyzed: 07/23/14					
1,1,2,2-Tetrachloroethane	ND	0.020									V-05
Tetrachloroethylene	ND	0.020									
Tetrahydrofuran	ND	0.020									
Toluene	ND	0.020									
1,2,4-Trichlorobenzene	ND	0.020									V-05
1,1,1-Trichloroethane	ND	0.020									
1,1,2-Trichloroethane	ND	0.020									
Trichloroethylene	ND	0.020									
Trichlorofluoromethane (Freon 11)	ND	0.020									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.020									
1,2,4-Trimethylbenzene	ND	0.020									
1,3,5-Trimethylbenzene	ND	0.020									
Vinyl Acetate	ND	0.40									
Vinyl Chloride	ND	0.020									
m&p-Xylene	ND	0.040									
o-Xylene	ND	0.020									
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	7.77				8.00		97.1	70-130			
LCS (B101128-BS1)											
						Prepared & Analyzed: 07/23/14					
Acetone	6.40				5.00		128	70-130			V-06
Benzene	4.19				5.00		83.8	70-130			
Benzyl chloride	6.75				5.00		135 *	70-130			L-01
Bromodichloromethane	4.44				5.00		88.9	70-130			
Bromoform	5.04				5.00		101	70-130			
Bromomethane	5.15				5.00		103	70-130			
1,3-Butadiene	5.80				5.00		116	70-130			
2-Butanone (MEK)	5.45				5.00		109	70-130			
Carbon Disulfide	4.28				5.00		85.7	70-130			
Carbon Tetrachloride	4.64				5.00		92.9	70-130			
Chlorobenzene	4.50				5.00		89.9	70-130			
Chloroethane	5.88				5.00		118	70-130			
Chloroform	4.44				5.00		88.8	70-130			
Chloromethane	5.02				5.00		100	70-130			
Cyclohexane	4.20				5.00		83.9	70-130			
Dibromochloromethane	4.70				5.00		94.0	70-130			
1,2-Dibromoethane (EDB)	4.37				5.00		87.4	70-130			
1,2-Dichlorobenzene	5.01				5.00		100	70-130			
1,3-Dichlorobenzene	5.03				5.00		101	70-130			
1,4-Dichlorobenzene	4.90				5.00		98.0	70-130			
Dichlorodifluoromethane (Freon 12)	4.38				5.00		87.6	70-130			
1,1-Dichloroethane	4.32				5.00		86.3	70-130			
1,2-Dichloroethane	4.39				5.00		87.8	70-130			
1,1-Dichloroethylene	4.43				5.00		88.6	70-130			
cis-1,2-Dichloroethylene	4.24				5.00		84.8	70-130			
trans-1,2-Dichloroethylene	4.23				5.00		84.6	70-130			
1,2-Dichloropropane	3.94				5.00		78.9	70-130			V-05

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit		
Batch B101128 - TO-15 Prep											
LCS (B101128-BS1)					Prepared & Analyzed: 07/23/14						
cis-1,3-Dichloropropene	4.80				5.00		96.1	70-130			
trans-1,3-Dichloropropene	4.86				5.00		97.3	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.60				5.00		92.0	70-130			
1,4-Dioxane	4.44				5.00		88.8	70-130			
Ethanol	7.19				5.00		144 *	70-130			L-05
Ethyl Acetate	5.26				5.00		105	70-130			
Ethylbenzene	4.90				5.00		98.1	70-130			
4-Ethyltoluene	5.24				5.00		105	70-130			
Heptane	4.70				5.00		94.0	70-130			
Hexachlorobutadiene	4.52				5.00		90.5	70-130			V-05
Hexane	4.50				5.00		89.9	70-130			
2-Hexanone (MBK)	4.70				5.00		94.0	70-130			
Isopropanol	6.38				5.00		128	70-130			
Methyl tert-Butyl Ether (MTBE)	4.64				5.00		92.8	70-130			
Methylene Chloride	4.21				5.00		84.2	70-130			
4-Methyl-2-pentanone (MIBK)	5.31				5.00		106	70-130			
Naphthalene	4.88				5.00		97.7	70-130			V-05
Propene	4.49				5.00		89.7	70-130			
Styrene	5.18				5.00		104	70-130			
1,1,2,2-Tetrachloroethane	4.39				5.00		87.8	70-130			V-05
Tetrachloroethylene	4.58				5.00		91.6	70-130			
Tetrahydrofuran	4.91				5.00		98.3	70-130			
Toluene	4.67				5.00		93.4	70-130			
1,2,4-Trichlorobenzene	4.77				5.00		95.5	70-130			V-05
1,1,1-Trichloroethane	4.49				5.00		89.8	70-130			
1,1,2-Trichloroethane	4.25				5.00		85.0	70-130			
Trichloroethylene	4.26				5.00		85.3	70-130			
Trichlorofluoromethane (Freon 11)	5.92				5.00		118	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.76				5.00		95.1	70-130			
1,2,4-Trimethylbenzene	5.07				5.00		101	70-130			
1,3,5-Trimethylbenzene	5.22				5.00		104	70-130			
Vinyl Acetate	5.67				5.00		113	70-130			
Vinyl Chloride	5.51				5.00		110	70-130			
m&p-Xylene	10.5				10.0		105	70-130			
o-Xylene	4.90				5.00		98.1	70-130			
Surrogate: 4-Bromofluorobenzene (1)	8.28				8.00		103	70-130			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m ³	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-05	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

ANALYST

TPH Thomas P. Hnitecki
PEB Paula E. Blakeborough
LAW Lisa A. Worthington

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	AIHA,NY,ME
Benzene	AIHA,FL,NJ,NY,VA,ME
Benzyl chloride	AIHA,FL,NJ,NY,VA,ME
Bromodichloromethane	AIHA,NJ,NY,VA,ME
Bromoform	AIHA,NJ,NY,VA,ME
Bromomethane	AIHA,FL,NJ,NY,ME
1,3-Butadiene	AIHA,NJ,NY,VA,ME
2-Butanone (MEK)	AIHA,FL,NJ,NY,VA,ME
Carbon Disulfide	AIHA,NJ,NY,VA,ME
Carbon Tetrachloride	AIHA,FL,NJ,NY,VA,ME
Chlorobenzene	AIHA,FL,NJ,NY,VA,ME
Chloroethane	AIHA,FL,NJ,NY,VA,ME
Chloroform	AIHA,FL,NJ,NY,VA,ME
Chloromethane	AIHA,FL,NJ,NY,VA,ME
Cyclohexane	AIHA,NJ,NY,VA,ME
Dibromochloromethane	AIHA,NY,ME
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,VA,ME
1,3-Dichlorobenzene	AIHA,NJ,NY,ME
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,VA,ME
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME
1,1-Dichloroethane	AIHA,FL,NJ,NY,VA,ME
1,2-Dichloroethane	AIHA,FL,NJ,NY,VA,ME
1,1-Dichloroethylene	AIHA,FL,NJ,NY,VA,ME
cis-1,2-Dichloroethylene	AIHA,FL,NY,VA,ME
trans-1,2-Dichloroethylene	AIHA,NJ,NY,VA,ME
1,2-Dichloropropane	AIHA,FL,NJ,NY,VA,ME
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,VA,ME
trans-1,3-Dichloropropene	AIHA,NY,ME
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,VA,ME
1,4-Dioxane	AIHA,NJ,NY,VA,ME
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,VA,ME
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,VA,ME
Hexachlorobutadiene	AIHA,NJ,NY,VA,ME
Hexane	AIHA,FL,NJ,NY,VA,ME
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,VA,ME
Methylene Chloride	AIHA,FL,NJ,NY,VA,ME
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME
Naphthalene	NY,ME
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,VA,ME
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,VA,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Tetrachloroethylene	AIHA,FL,NJ,NY,VA,ME
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,VA,ME
1,2,4-Trichlorobenzene	AIHA,NJ,NY,VA,ME
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,VA,ME
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,VA,ME
Trichloroethylene	AIHA,FL,NJ,NY,VA,ME
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,VA,ME
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME
Vinyl Acetate	AIHA,FL,NJ,NY,VA,ME
Vinyl Chloride	AIHA,FL,NJ,NY,VA,ME
m&p-Xylene	AIHA,FL,NJ,NY,VA,ME
o-Xylene	AIHA,FL,NJ,NY,VA,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2015
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAC00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2015
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014



CON-TEST
ANALYTICAL LABORATORY

Phone: 413-525-2332
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Email: info@contestlabs.com
www.contestlabs.com

14G0883

39 SPRUCE ST
EAST LONGMEADOW, MA 01028

Page 1 of 1

Company Name: S&M, Inc

Address: 9751 Southern Pine Blvd.
Charlotte, NC 28273

Attention: Roger Smith

Project Location: 314 N. College Street

Sampled By: Brian Wilson

Proposal Provided? (For Billing purposes)

yes _____ no _____

Telephone: (704) 523-4726

Project # 4335-14-152

Client PO # 60704

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT

Fax #:
Email: fsmith@smeinc.com

Format: EXCEL PDF GIS KEY OTHER

Date Sampled ONLY USE WHEN USING PUMPS

Field ID	Sample Description	Media	Lab #	Start		Stop		Total	Flow Rate	Volume	Matrix Code*	TO-15 (without TICS)	Summa Canister ID	Flow Controller ID
				Date Time	Date Time	Minutes Sampled	M ³ /Min. or L/Min.							
SV-1	Soil Vapor - Sub-Slab: Patio, behind bar at Republic	S	01	7/14/14 11:12	7/14/14 12:12	13:12					SS	✓	1100	4244
SV-3	Soil Vapor - Sub-Slab: Phoenix	S	02	7/14/14 13:05	7/14/14 14:05	14:31					SS	✓	1158	4243
SV-4	Soil Vapor - Sub-Slab: Cosmos @ 6th Street	S	03	7/14/14 13:31	7/14/14 14:31	14:31					SS	✓	1336	4241
SV-5	Soil Vapor - Sub-Slab: Cosmos @ College Street	S	04	7/14/14 14:02	7/14/14 15:02	14:02					SS	✓	1699	4240
SV-2	Soil Vapor - Sub-Slab: Basement	S	05								SS	✓	1732	4242

CLIENT COMMENTS:

Special Requirements

Relinquished by: (signature) [Signature] Date/Time: 7/15/14 12:00

Received by: (signature) [Signature] Date/Time: 7-15-14 12:16

Relinquished by: (signature) _____ Date/Time: _____

Received by: (signature) _____ Date/Time: _____

Turnaround **
 7-Day
 10-Day
 Other _____

Regulations: _____
 Data Enhancement/RCP? Y N
 Enhanced Data Package Y N

Required Detection Limits: _____
 (Surcharge Applies)

*Matrix Code: SG=SOIL GAS IA=INDOOR AIR AMB=AMBIENT SS=SUB SLAB
 D=DUP BL=BLANK O=Other

**Media Codes: S=summa can T=tedlar bag P=PUP T=tube F=filter C=cassette O=Other

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT. NEIAC & AIHA-LAP, LLC, ACCREDITED WBE/DBE Certified



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1Z60Y4V61295629388

Updated: 07/21/2014 12:16 P.M. Eastern Time

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Friday, 07/18/2014 at 12:14 P.M.
Left At:
Front Desk
Signed By:
BLAKE
[Proof of Delivery](#)

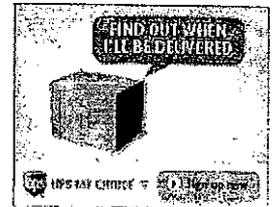
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Login Sample Receipt Checklist
(Rejection Criteria Listing - Using Sample Acceptance Policy)
Any False statement will be brought to the attention of Client

Question	Answer (True/False)		Comment
	T	F/NA	
1) The cooler's custody seal, if present, is intact.		NA	
2) The cooler or samples do not appear to have been compromised or tampered with.		NA	
3) Samples were received on ice.		NA	
4) Cooler Temperature is acceptable.		NA	
5) Cooler Temperature is recorded.		NA	
6) COC is filled out in ink and legible.		T	
7) COC is filled out with all pertinent information.		T	
8) Field Sampler's name present on COC.		T	
9) There are no discrepancies between the sample IDs on the container and the COC.		T	
10) Samples are received within Holding Time.		T	
11) Sample containers have legible labels.		T	
12) Containers are not broken or leaking.		T	
13) Air Cassettes are not broken/open.		NA	
14) Sample collection date/times are provided.		T	
15) Appropriate sample containers are used.		T	
16) Proper collection media used.		T	
17) No headspace sample bottles are completely filled.		NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.		T	
19) Trip blanks provided if applicable.		NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.		NA	
21) Samples do not require splitting or compositing.		T	

Doc #278 Rev. 4 January 2014

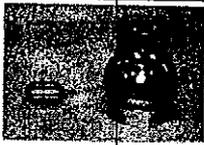
Who notified of False statements?

Log-In Technician Initials: PB

Date/Time:

Date/Time: 7-18-14

12:11



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39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

AIR Only Receipt Checklist

CLIENT NAME: S + M RECEIVED BY: PB DATE: 7.21.14

- 1) Was the chain(s) of custody relinquished and signed? Yes No
- 2) Does the chain agree with the samples?
If not, explain: Yes No
- 3) Are all the samples in good condition?
If not, explain: Yes No
- 4) Are there any samples "On Hold"? Yes No Stored where:
- 5) Are there any RUSH or SHORT HOLDING TIME samples?
Who was notified _____ Date _____ Time _____
Yes No

6) Location where samples are stored: Air Lab

Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

7) Number of cans Individually Certified or Batch Certified? NONE

Containers received at Con-Test		
	# of Containers	Types (Size, Duration)
Summa Cans (TO-14/TO-15/APH)	6	6 Lit
Tedlar Bags		
TO-17 Tubes		
Regulators	6	1 hr
Restrictors		
Hg/Hopcalite Tube (NIOSH 6009)		
(TO-4A/ TO-10A/TO-13) PUFs		
PCB Florisil Tubes (NIOSH 5503)		
Air cassette		
PM 2.5/PM 10		
TO-11A Cartridges		
Other		

Unused Summas/PUF Media:
1146

Unused Regulators:

- 1) Was all media (used & unused) checked into the WASP?
- 2) Were all returned summa cans, Restrictors & Regulators and PUF's documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments: 1100 1699
1158 1732
1336

4244 4241
4245 4242
4240 4243