

**20-Day, Initial Abatement Action, and
Phase I Limited Site Assessment Report
725 S. Elm Street Site**

**725 S. Elm Street
Greensboro, North Carolina**

**H&H Job No. GRN-011
July 26, 2012**



20-Day, Initial Abatement Action, and Phase I Limited Site Assessment Report

A. Site Information

1. Site Identification

Date of Report: July 26, 2012
Facility ID: N/A Not Applicable UST Incident Number: Not known
Site Name: 725 S. Elm Street Site
Site Street Address: 725 S. Elm Street
City, Town: Greensboro Zip Code: 27406 County: Guilford
Description of Geographical Data Point: UST basin
Location Method: Other Mapping
Latitude: 36.063725 Longitude: -79.790686

2. Information about Contacts Associated with the Leaking UST System

UST Owner: Sidney & Ruth Gray
Address: P.O. Box 434, Greensboro, NC 27402
Tel: 336-294-6789
UST Operator: Unknown
Address: Unknown Tel.: Unknown
Property Owner: Sidney & Ruth Gray
Address: P.O. Box 434, Greensboro, NC 27402
Tel: 336-294-6789
Property Occupant: Property is a vacant lot
Address: N/A Tel.: N/A
Consultant/Contractor: Hart & Hickman, PC (Attn: Leonard Moretz, PG)
Address: 3334 Hillsborough Street, Raleigh, NC 27607
Tel.: 919-847-4241
Analytical Laboratory: Prism Laboratories, Inc. State Cert. No. 402
Address: 449 Springbrook Road, Charlotte, NC 28224 Tel. 704-529-6364

3. Information About Release

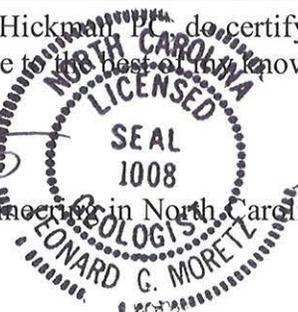
Date Discovered: June 28, 2012
Estimated Quantity of Release: Unknown
Cause of Release: Corrosion of UST
Source of Release: Out-of-service UST
Sizes and contents of UST system: one 2,000-gallon UST (unknown contents)

4. Certification

I, Leonard Moretz, LG, a Licensed Geologist for Hart & Hickman, PC do certify that the information contained in this report is correct and accurate to the best of my knowledge.



Hart & Hickman, PC is licensed to practice geology/engineering in North Carolina. The certification numbers of the company are C-245/C-1269.



B. Site History and Characterization

1. UST Owner and Operator Information:

UST ID Number	N/A	Facility ID Number	N/A
Name of Owner		Dates of Ownership	
Sidney & Ruth Gray		2007 to present	
Street Address			
P.O. Box 434			
City	State	Zip	Telephone Number
Greensboro	NC	27402	336-294-6789
Name of Operator		Dates of Operation	
Unknown		Unknown	
Street Address			
--			
City	State	Zip	Telephone Number
--	--	--	--

2. UST/AST Information:

UST ID Number	Current/Last Contents	Previous Contents	Capacity (gallons)	Construction Details	Tank Dimensions	Description of Associated Piping and Pumps	Date Tank Installed	Status of UST	Was release associated with the UST System?
UST-1	Unknown	Unknown	2,000	Single-wall steel	12' x 5' dia.	Vent piping observed	Unknown	Closed by removal (06/20/12)	Yes

AST ID Number	Current/Last Contents	Previous Contents	Capacity (gallons)	Construction Details	Tank Dimensions	Description of Associated Piping and Pumps	Date Tank Installed	Status of AST	Was release associated with the AST System?
None									

3. Non-UST Spills at the Site:

Aboveground storage tanks (ASTs) are not associated with the site. In addition, there is no knowledge of non-UST spills at the subject site.

4. Description of Release:

Hart & Hickman, PC (H&H) has completed Brownfields assessment activities at the 725 S. Elm Street site in Greensboro, Guilford County, North Carolina. The subject Brownfields assessment activities were performed for the City of Greensboro (the City) under U.S. Environmental Protection Agency (EPA) Brownfields Assessment Grant 2B-95426809-1.

Prior to initiating the assessment activities, a Phase I Environmental Site Assessment (ESA) was completed by H&H. This report entitled *Phase I ESA – Downtown Greenway Project – Bragg Street Corridor, Greensboro, NC* dated December 22, 2011 documented a potential UST on the property. H&H supervised the removal of the UST on June 20, 2012, and a release was confirmed upon receipt of analytical data on June 28, 2012.

5. Site Characteristics:

The property at 725 S. Elm Street is an approximate 0.34-acre vacant parcel. The site is bounded on the west by S. Elm Street and on the north, south, and east by vacant land. A site location map is included as Figure 1, and a site and sample location map is included as Figure 2.

The subject property is located in the Piedmont Physiographic Province of North Carolina. The land surface of the area is generally characterized as gently sloping, which may become moderately steep where intersected by streams. According to the *Generalized Geologic Map of North Carolina* dated 1985, the subject property lies within the Carolina Slate Belt of the Piedmont. In the site area, underlying bedrock is composed of metamorphosed granitic rock. In the Piedmont, the bedrock is overlain by a mantle of weathered rock termed saprolite or residuum. The saprolite consists of unconsolidated clay, silt, and sand with lesser amounts of rock fragments. Due to the range of parent rock types and their variable susceptibility to weathering, the saprolite ranges widely in color, texture, and thickness. Generally, the saprolite

is thickest near interstream divides and thins toward streambeds. In profile, the saprolite normally grades from clayey soils near the land surface to highly weathered rock above the competent bedrock.

The occurrence and movement of groundwater in the Piedmont is typically within two separate but interconnected water-bearing zones. A shallow water-bearing zone occurs within the saprolite, and a deeper water-bearing zone occurs within the underlying bedrock. Groundwater in the shallow saprolite zone occurs in the interstitial pore spaces between the grains comprising the saprolite soils. Groundwater in this zone is typically under water table or unconfined conditions. In general, groundwater migrates laterally from recharge areas to small streams that serve as localized discharge points.

The site is located at an approximate elevation of 800 ft above mean sea level, and the land surface at the site slopes down toward the south (Figure 1). Based upon previous assessment activities in the site area, groundwater flow is to the south-southwest. Soils observed at the site are primarily brown to gray sandy silt. The depth to groundwater at the site is approximately 4.5 ft bgs. A general cross-section is included as Figure 3.

City-supplied water is available to the site and surrounding properties. The City obtains its water supply from surface water reservoirs located miles away. The nearest surface water feature is an unnamed tributary of Mile Run Creek. This unnamed tributary lies approximately 800 feet south-southeast of the former UST.

6. Initial Abatement Actions, Assessment Activities, and Corrective Actions Performed to Date:

The UST closure work was conducted by EVO Corporation (EVO) of Winston-Salem, North Carolina on June 20, 2012. A short section (approximately 3 ft) of vent piping, but not supply piping, was observed during closure activities. The site-specific health and safety plan (HASP) used during field activities is included as Appendix A.

Prior to removing the UST from the ground, 1,150 gallons of residual liquids were pumped from the tank into a vacuum tanker truck. While exhuming the tank, H&H personnel screened the excavated soil with a photo-ionization detector (PID) to segregate impacted soils. The tank was then removed from the ground and its condition examined. H&H observed several approximately ½-inch diameter holes in the UST. Following removal, the tank was transported offsite for proper disposal. Disposal documentation for the residual liquids and UST are included in Appendix B. Photographs documenting field activities are included in Appendix C.

After the UST was removed, H&H collected closure soil samples (SS-7 through SS-12) from the sidewalls of the excavation at a depth of 4 ft bgs, just above the capillary fringe. H&H observed groundwater entering the bottom of the excavation; therefore, a base soil sample was not collected. The closure soil samples were submitted to Prism Laboratories, Inc. (Prism) for analysis of total petroleum hydrocarbons (TPH) as diesel range organics (DRO) and gasoline range organics (GRO) by Environmental Protection Agency (EPA) Method 8015C. Prism, a woman-owned firm, is certified by the State of North Carolina and the National Environmental Laboratory Accreditation Program (NELAP) to perform the requested laboratory analyses for the project. A chain-of-custody (COC) record was completed for samples collected and included the sample designation, date collected, time collected, matrix, sample container information, and requested analyses. The completed COC record was signed by H&H sampling personnel, and the samples were transported to Prism by a laboratory courier.

A minor release from the UST was suspected based on low PID readings (i.e., <12 ppm). Soil sample analytical results are discussed in Section B-7.

Soils were not excavated in the UST pit below the saturated zone (i.e. below approximately 4.5-5 ft bgs). A total of 12.55 tons of potentially-impacted soil, primarily soil that had collapsed into the excavation during UST removal, were loaded onto a dump truck and removed from the site. Soil disposal documentation is included in Appendix B.

Since over-excavation of the UST pit did not occur, the closure soil samples (SS-7 through SS-12) were also submitted as confirmation samples. The samples were submitted to Prism and

placed on hold for analysis of volatile organic compounds (VOCs) by EPA Method 8260B, semi-volatile organic compounds (SVOCs) by EPA Method 8270D, and volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbons (EPH) by the Massachusetts Department of Environmental Protection (MADEP) Method. Upon receipt of closure soil sample analytical results (Section B-7), Mr. Gene Mao of the Guilford County Department of Public Health requested analysis of samples SS-11 and SS-12 for VOCs, SVOCs, VPH, and EPH. Soil sample analytical results are discussed in Section B-7.

7. Summary of Soil Analytical Data

The soil sample analytical results, analytical methods, and sample depths are summarized in Table 1. The laboratory analytical data report and COC record are provided in Appendix D.

Analytical data for one of the closure soil samples (SS-12) indicated a concentration of TPH-DRO (12 mg/kg) above the North Carolina Department of Environment and Natural Resources (DENR) UST Section TPH Action Level of 10 mg/kg. TPH-GRO was not detected above laboratory reporting limits in soil sample SS-12. Neither TPH-GRO nor TPH-DRO were detected in soil sample SS-11.

Analytical data for confirmation soil sample SS-11 indicated a concentration of acetone (0.033 mg/kg) below the Soil-to-Water Maximum Soil Contaminant Concentration (MSCC) of 24 mg/kg. No other constituents were detected above laboratory reporting limits in the confirmation soil samples.

C. Risk Characterization

A Limited Site Assessment Risk Classification and Land Use Form is included in Appendix E. The form documents potential impacts and land use at the site and surrounding properties. Potential receptors identified as part of the LSA are shown on Table 2 and Figure 4.

Based upon the risk characterization data, the release incident does not meet High or Intermediate Risk classification criteria; thus, by default it would be assigned a Low Risk classification.

D. Receptor Information

1. Water Supply Wells

H&H conducted a walking survey of all properties located within 500 ft of the site on July 12, 2012 to obtain information regarding potential receptors. To locate potential private water supply wells, receptor survey forms were completed by property owners. Copies of the receptor survey forms are included in Appendix F. Where property owners or occupants were not available, H&H performed a visual inspection for water supply wells and public water meters and completed the forms. No water supply wells were observed during the walking survey. H&H performed a driving windshield survey of the area within 1,500 ft of the site on July 12, 2012. No water supply wells were observed during the driving survey.

2. Public Water Supplies

The area within 1,500 ft of the site is supplied with public water from the City municipal water supply system. The City obtains its water supply from surface water reservoirs located miles away. The nearest public water line runs west of the site within S. Elm Street.

3. Surface Water

The nearest surface water feature is an unnamed tributary of Mile Run Creek. This unnamed tributary lies approximately 800 feet south-southeast of the former UST. The location of this surface water feature is shown on Figure 4.

4. Wellhead Protection Areas

The ArcIMS Viewer, maintained by DENR Division of Environmental Health, Public Water Supply Section, was utilized to confirm that the site is not located within an approved Wellhead Protection Area. A copy of the map generated using the ArcIMS Viewer is included as Appendix G.

5. Deep Aquifers in the Coastal Plain Physiographic Region

The site is not located within the Coastal Plain Physiographic Province.

6. Subsurface Structures

There are no subsurface structures in the vicinity of the former UST. The nearest subsurface utility lines are located within S. Elm Street, approximately 50 ft west of the former UST. No basements or other confined spaces were identified in the vicinity of the site; therefore, there is no threat of the accumulation of vapors and/or explosion. The identified subsurface structures are shown on Figure 4.

E. Land Use

1. Property Owners and Occupants

The names and addresses of the property owners of the parcels that are contiguous to the area containing contamination are listed in Table 3.

2. Sensitive Land Use Features

Features sensitive to impacts from the release, including churches, parks, a community center, and a health clinic, are located within 1,500 ft of the site. The features are shown on Table 4 and Figure 4.

F. Site Geology and Hydrogeology

Soils observed at the site are primarily brown to gray sandy silt. Additional information related to site geology and hydrogeology is included in Section B-5. A geologic cross-section of the site is included as Figure 3.

G. Phase I LSA Investigation Sampling Results

1. Groundwater Sampling Activities

Prior to UST closure activities, H&H collected a groundwater sample from existing site monitoring well MW-1. The monitoring well was purged by the low flow method using a peristaltic pump and dedicated tubing. During well purging, measurements of pH, conductivity, temperature, and turbidity were taken. The well was purged until field parameters stabilized. Following well purging, a groundwater sample was submitted to Prism for laboratory analysis of VOCs by EPA Method 602, SVOCs by EPA Method 625 with 10 tentatively identified compounds (TICs) reported, and VPH and EPH by the MADEP Method.

2. Groundwater Analytical Results

The results of MW-1 groundwater sample analyses are summarized in Table 5. The laboratory analytical data report and COC records are provided in Appendix D.

Concentrations of VOCs, SVOCs, VPH, and EPH were not detected in the groundwater sample above laboratory reporting limits. Three SVOC TICs were detected in the field duplicate sample; however, DENR 2L Groundwater Quality Standards (2L Standards) have not been established for these compounds.

3. Monitoring Well Abandonment and Installation Activities

During UST closure activities, previously existing site monitoring well MW-1 was damaged. Therefore, on July 12, 2012, monitoring well MW-1 was abandoned by South Atlantic

Environmental Drilling and Construction Company (SAEDACCO) using a Portland grout slurry. A well abandonment record is included in Appendix H.

H&H oversaw the installation of a replacement monitoring well (MW-1A) at the site on July 13, 2012. The well was installed by SAEDACCO using hollow-stem auger drilling methods to a total depth of 15 ft bgs. Monitoring well MW-1A was constructed of 2-inch diameter PVC casing/screen with a 10-ft length of 0.010-inch slot well screen, a sand filter to 0.5 ft above the screen interval, a 0.5 ft thick bentonite seal, grout to the surface, and a flush-mount well vault with expansion cap and lock. Monitoring well construction details are included on Table 6, and a well construction record and a boring log are attached in Appendix H.

Following installation, H&H developed the monitoring well on July 13, 2012 using a dedicated bailer. During development, H&H collected field readings of pH, conductivity, temperature, and turbidity. The development process continued until the field parameters stabilized and the well was relatively free of suspended sediment. Approximately six gallons of water (approximately five well volumes) were purged from the well during development. A groundwater sample was not collected from monitoring well MW-1A; however, it may be sampled in the future for assessment of a non-petroleum groundwater plume from an offsite source.

H. Conclusions and Recommendations

Based upon the site-specific information presented above, the risk posed by the release does not meet the High or Intermediate Risk criteria; thus, by default it should be assigned a Low Risk classification. Due to the lack of soil or groundwater impacts above regulatory standards associated with the release from the former site UST, H&H requests a No Further Action (NFA) determination for the site.

I. References

Geologic Map of North Carolina, North Carolina Department of Natural Resources and Community Development, Division of Land Resources, 1985.

Phase I ESA – Downtown Greenway Project – Bragg Street Corridor, Greensboro, NC, prepared by Hart & Hickman, P.C., dated December 22, 2011.

I. Tables

Table 1:	Summary of Soil Analytical Data
Table 2:	Summary of Potential Receptors
Table 3:	Summary of Property Owner Information
Table 4:	Summary of Sensitive Land Use Features
Table 5:	Summary of Groundwater Analytical Data
Table 6:	Summary of Monitoring Well Construction Information

J. Figures

Figure 1	Site Location Map
Figure 2	Site and Sample Location Map
Figure 3	Geologic Cross-Sections
Figure 4	Potential Receptors and Land Use Map

K. Appendices

Appendix A:	Health and Safety Plan
Appendix B:	Disposal Documentation
Appendix C:	Photographs
Appendix D:	Laboratory Analytical Report and Chain-of-Custody Record
Appendix E:	NCDENR Limited Site Assessment Risk Classification and Land Use Form
Appendix F:	Receptor Survey Forms
Appendix G:	NCDENR ArcIMS Viewer Wellhead Protection Area Map
Appendix H:	Monitoring Well Abandonment and Construction Records

Table 1
(Data Requested for Table B-3 from Guidelines)
Summary of Soil Analytical Data
725 S. Elm Street Site
Greensboro, North Carolina
H&H Job No. GRN-011

Sample ID	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12	SS-DUP3 ¹	SS-DUP3 ²	Screening Criteria			
									Soil-to-Water MSCC ³ (mg/kg)	Residential Soil Cleanup Levels ⁴ (mg/kg)	Industrial/ Commercial Soil Cleanup Levels ⁵ (mg/kg)	DENR UST Section TPH Action Level (mg/kg)
Sample Date	6/20/2012	6/20/2012	6/20/2012	6/20/2012	6/29/2012	6/29/2012	6/20/2012	6/29/2012				
Sample Depth (ft bgs)	4	4	4	4	4	4	4	4				
Units	mg/kg	mg/kg										
<u>Diesel Range Organics (8015C)</u>	<7.4	<7.9	<8.7	<8.4	<7.5	12	<9.8	NA	--	--	--	10
<u>Gasoline Range Organics (8015C)</u>	<4.5	<5.5	<5.1	<5.6	<4.0	<5.9	<6.1	NA	--	--	--	10
<u>VOCs (8260B)</u>												
Acetone	NA	NA	NA	NA	0.033	<0.017	NA	0.026	24	14,000	360,000	--
<u>SVOCs (8270D)</u>	NA	NA	NA	NA	BRL	BRL	NA	BRL	--	--	--	--
<u>Extractable Petroleum Hydrocarbons (MADEP)</u>	NA	NA	NA	NA	BRL	BRL	NA	BRL	--	--	--	--
<u>Volatile Petroleum Hydrocarbons (MADEP)</u>	NA	NA	NA	NA	BRL	BRL	NA	BRL	--	--	--	--

Notes:

Table 1 provides the requested data for Table B-3 from NCDENR UST Section *Guidelines for Assessment and Corrective Action for UST Releases* (July 15, 2008 Version)

1) SS-DUP3 collected on 6/20/2012 is a field duplicate sample collected at SS-8

2) SS-DUP3 collected on 6/29/2012 is a field duplicate sample collected at SS-12

3) Analytical results compared to North Carolina Department of Environment and Natural Resources (NC DENR) Soil-to-Water Maximum Soil Contaminant Concentrations (MSCCs), revised April 2012

4) Analytical results compared to NC DENR Residential Soil Cleanup Levels, revised April 2012

5) Analytical results compared to NC DENR Industrial/Commercial Soil Cleanup Levels, revised April 2012

Only those compounds detected in at least one sample shown above

Method number follows parameter in parenthesis

VOCs = volatile organic compounds; SVOCs = semi-volatile organic compounds

NA = not analyzed, NS = no available screening standard; BRL = all compounds below reporting limits

-- = not applicable; ft bgs = feet below ground surface

mg/kg = milligrams per kilogram

Table 2
(Data Requested for Table B-5 from Guidelines)
Summary of Potential Receptors
725 S. Elm Street Site
Greensboro, North Carolina
H&H Job No. GRN-011

Receptor ID	Description	Location	Contact	Phone Number	Usage	Distance From Source Area of Release (ft)	Up or Downgradient
UGL	Underground Natural Gas Line	S. Elm Street	Piedmont Natural Gas	704-364-3120	N/A	50	Cross-gradient
PWL	Public Water Line	S. Elm Street	City of Greensboro Water Resources Department	336-373-2489	N/A	55	Cross-gradient
SSL	Sanitary Sewer Line	S. Elm Street	City of Greensboro Water Resources Department	336-373-2489	N/A	60	Cross-gradient
Creek	Unnamed Tributary to Mile Run Creek	Between S. Elm Street & Arlington Street	N/A	N/A	N/A	800	Downgradient

Table 2 provides the requested data for Table B-5 from NCDENR UST Section *Guidelines for Assessment and Corrective Action for UST Releases* (July 15, 2008 Version)

Table 3
(Data Requested for Table B-6 from Guidelines)
Summary of Property Owner Information
725 S. Elm Street Site
Greensboro, North Carolina
H&H Job No. GRN-011

Property Location	Parcel Identification Number	Owner Name	Occupant Name	Address
North	7864634166	Redevelopment Commission of Greensboro	N/A - Vacant Lot	102 E. Lee Street
East	7864635081	Redevelopment Commission of Greensboro	N/A - Cell Phone Tower	508 Arlington Street
Southeast	7864625972	Stanley & Rosemary Gray	N/A - Vacant Lot	518 Arlington Street
South	7864623974	Stanley & Rosemary Gray	N/A - Vacant Lot	727 S. Elm Street
West	7864621929	Redevelopment Commission of Greensboro	N/A - Vacant Lot	730 S. Elm Street
Northwest	7864631046	Redevelopment Commission of Greensboro	N/A - Vacant Building	724 S. Elm Street

Table 3 provides the requested data for Table B-6 from NCDENR UST Section *Guidelines for Assessment and Corrective Action for UST Releases* (July 15, 2008 Version)

Table 4
(Data Requested for Table B-10 from Guidelines)
Summary of Sensitive Land Use Features
725 S. Elm Street Site
Greensboro, North Carolina
H&H Job No. GRN-011

Land Use Feature (zoning code)	Date Determined	Location	Distance and Direction From Source Area
Downtown Greenway - Bragg Street (PI)	7/12/2012	W. Bragg Street ROW	250 ft Southwest
Healthserve Community Health Clinic (HB)	7/12/2012	1002-1110 S. Eugene Street, Greensboro, NC 27406	775 ft West
Greensboro Urban Ministries (HB)	7/12/2012	305 W. Lee Street, Greensboro, NC 27406	930 ft West
Skene's Chapel Holiness Church (TN-1)	7/12/2012	350 Martin Luther King, Jr. Drive, Greensboro, NC 27406	970 ft Northeast
Shiloh Baptist Church (RM-12)	7/12/2012	1210 S. Eugene Street, Greensboro, NC 27406	975 ft Southwest
Faith Community Church (CB)	7/12/2012	417 Arlington Street, Greensboro, NC 27406	1,000 ft Northeast
Community Enrichment Center (GB)	7/12/2012	414 Martin Luther King, Jr. Drive, Greensboro, NC 27406	1,100 ft East
McCulloch Park (RS-7)	7/12/2012	300-304 E. McCulloch Street, Greensboro, NC 27406	1,400 ft Southeast

Table 4 provides the requested data for Table B-10 from NCDENR UST Section *Guidelines for Assessment and Corrective Action for UST Releases* (July 15, 2008 Version)

PI = Public & Institutional

CB = Central Business

HB = Highway Business

GB = General Business

TN-1 = Traditional Neighborhood

RS-7 = Residential Single Family

RM-12 = Residential Multi-Family

Table 4 (Page 4 of 6)

Table 5
(Data Requested for Table B-4 from Guidelines)
Summary of Groundwater Analytical Data
725 S. Elm Street Site
Greensboro, North Carolina
H&H Job No. GRN-011

Sample ID	MW-1	MW-DUP	Screening Criteria	
			NCGWQS ¹	GCL ²
Sample Date	6/20/2012	6/20/2012	µg/L	µg/L
Units	µg/L	µg/L	µg/L	µg/L
<u>VOCs (602)</u>	BRL	BRL	--	--
<u>SVOCs (625)</u>				
TIC: Bis(2-ethylhexyl) maleate	ND	39	NS	NS
TIC: Unknown	ND	11	NS	NS
TIC: Unknown	ND	11	NS	NS
<u>Extractable Petroleum Hydrocarbons (MADEP)</u>	BRL	BRL	--	--
<u>Volatile Petroleum Hydrocarbons (MADEP)</u>	BRL	BRL	--	--

Notes:

Table 5 provides the requested data for Table B-4 from NCDENR UST Section *Guidelines for Assessment and Corrective Action for UST Releases* (July 15, 2008 Version)

- 1) Analytical results compared to North Carolina Groundwater Quality Standards, revised April 2012
 - 2) Analytical results compared to North Carolina Gross Contamination Levels for Groundwater, revised April 2012
- Only those compounds detected in at least one sample shown above

Method number follows parameter in parenthesis

VOCs = volatile organic compounds; SVOCs = semi-volatile organic compounds

ND = not detected; NS = no available screening standard; BRL = all compounds below reporting limits

-- = not applicable

TIC = tentatively identified compound

µg/L = micrograms per liter

MADEP = Massachusetts Department of Environmental Protection

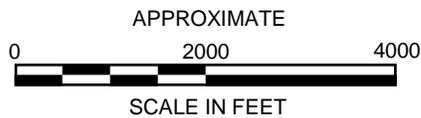
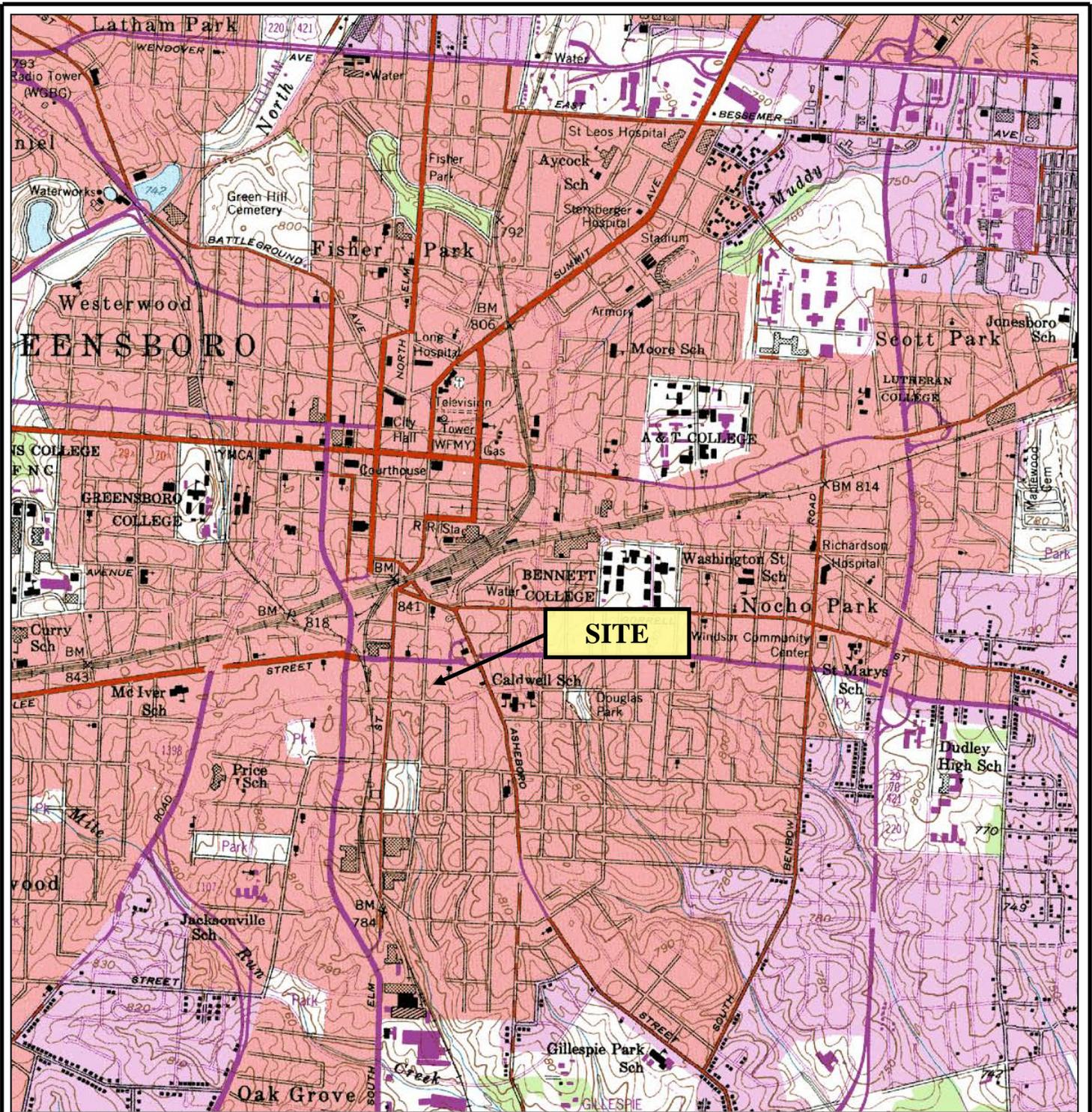
Table 6
(Data Requested for Table B-7 from Guidelines)
Summary of Monitoring Well Construction Information
725 S. Elm Street Site
Greensboro, North Carolina
H&H Job No. GRN-011

Well ID	Date Installed	Date Water Level Measured	Well Casing Diameter (in)	Well Casing Depth (ft bgs)	Screen Interval (ft bgs)	Depth of Well (ft bgs)	Top of Casing Elevation (ft)	Depth to Water (ft below TOC)	Free Product Thickness (ft)	Groundwater Elevation (ft)
MW-1A	07/13/12	NA	2	NA	5-15	15	NM	NM	NA	NA

Table 6 provides the requested data for Table B-7 from NCDENR UST Section *Guidelines for Assessment and Corrective Action for UST Releases* (July 15, 2008 Version)

Monitoring well MW-1A was installed to replace MW-1, which was damaged during UST closure. MW-1A was not gauged or sampled.

ft bgs = feet below ground surface; TOC = top of well casing; NA = not applicable; NM = not measured

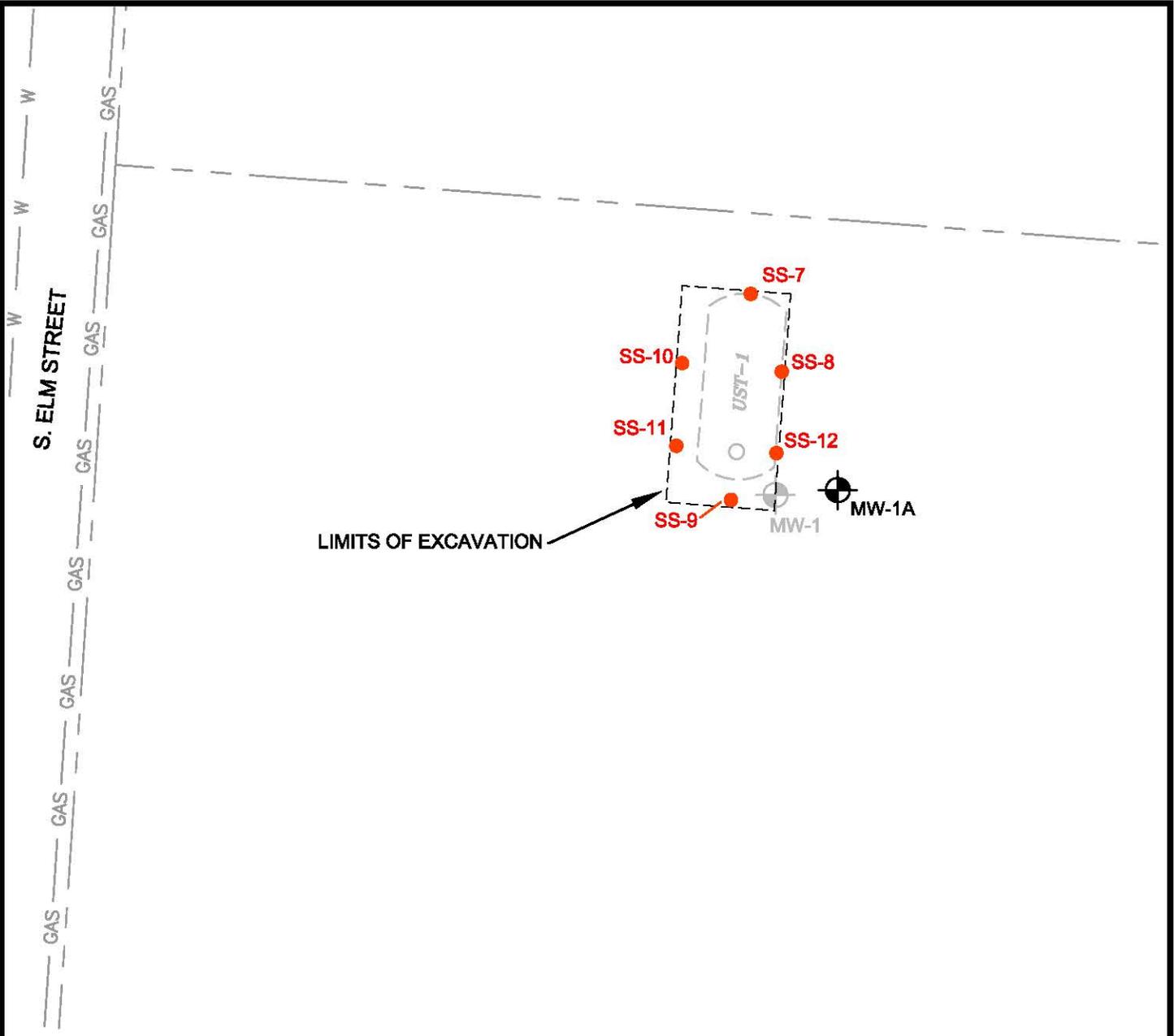


U.S.G.S. QUADRANGLE MAP

GREENSBORO, NC 1994

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

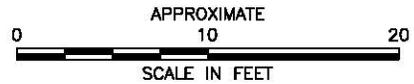
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PROJECT	725 S. ELM STREET SITE 725 S. ELM STREET GREENSBORO, NORTH CAROLINA	
		3334 Hillsborough Street Raleigh, North Carolina 27607 919-847-4241 (p) 919-847-4261 (f)
DATE:	07/24/12	REVISION NO: 0
JOB NO:	GRN-011	FIGURE NO: 1



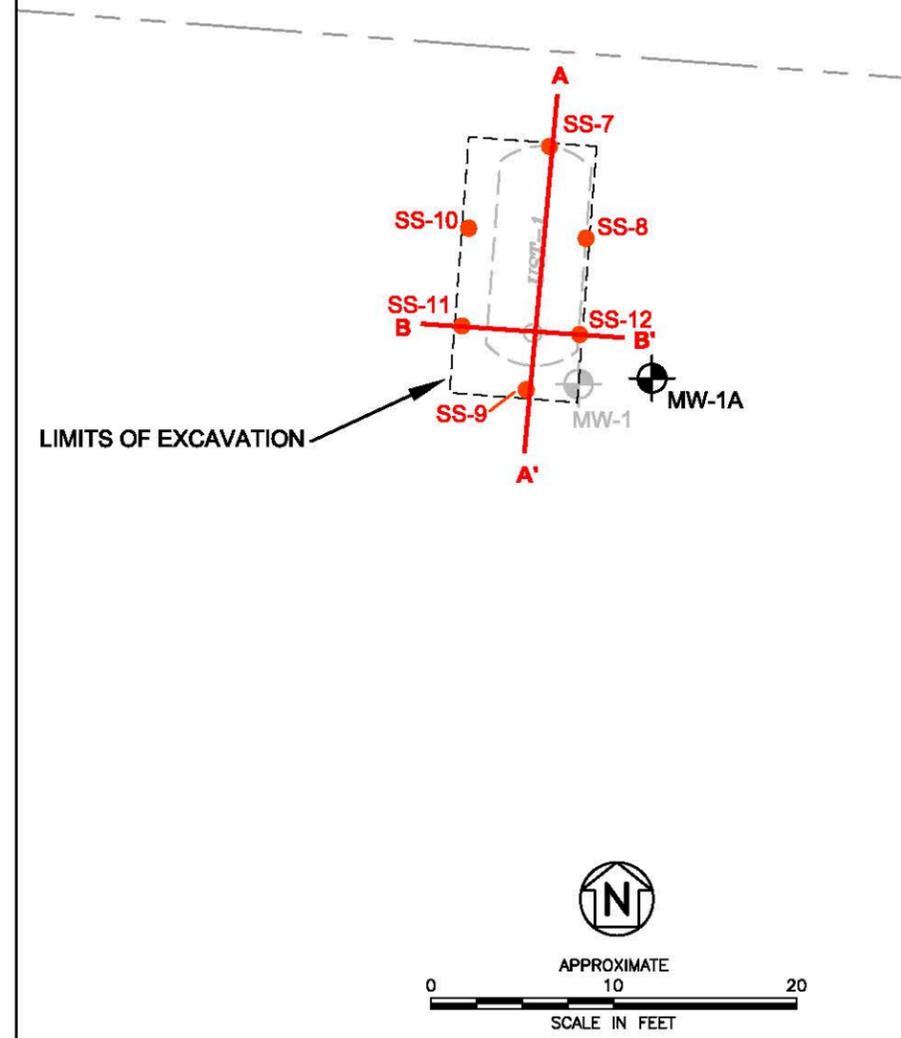
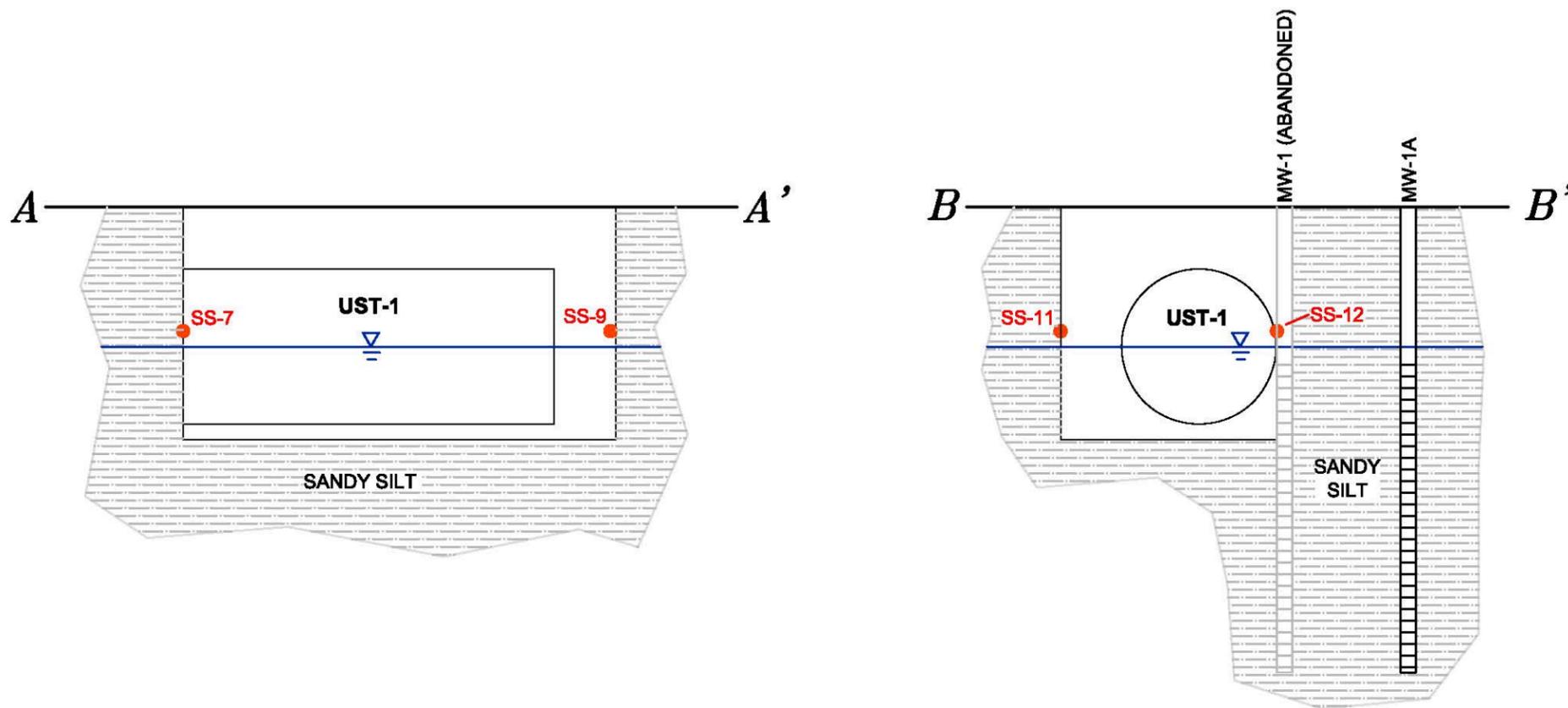
LIMITS OF EXCAVATION

LEGEND

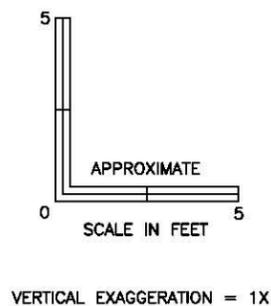
- PROPERTY PARCEL
- GAS ----- SUBSURFACE GAS LINE
- W ----- SUBSURFACE WATER LINE
- (UST-1) FORMER UNDERGROUND STORAGE TANK
- SIDEWALL SOIL SAMPLE
- ⊕ MONITORING WELL
- ⊖ ABANDONED MONITORING WELL



TITLE		SITE AND SAMPLE LOCATION MAP	
PROJECT		725 S. ELM STREET SITE 725 S. ELM STREET GREENSBORO, NORTH CAROLINA	
		3334 Hillsborough Street Raleigh, North Carolina 27607 919-847-4241(p) 919-847-4261(f) License # C-1269 / #C-245 Geology	
DATE: 07/24/12		REVISION NO. 0	
JOB NO. GRN-011		FIGURE NO. 2	

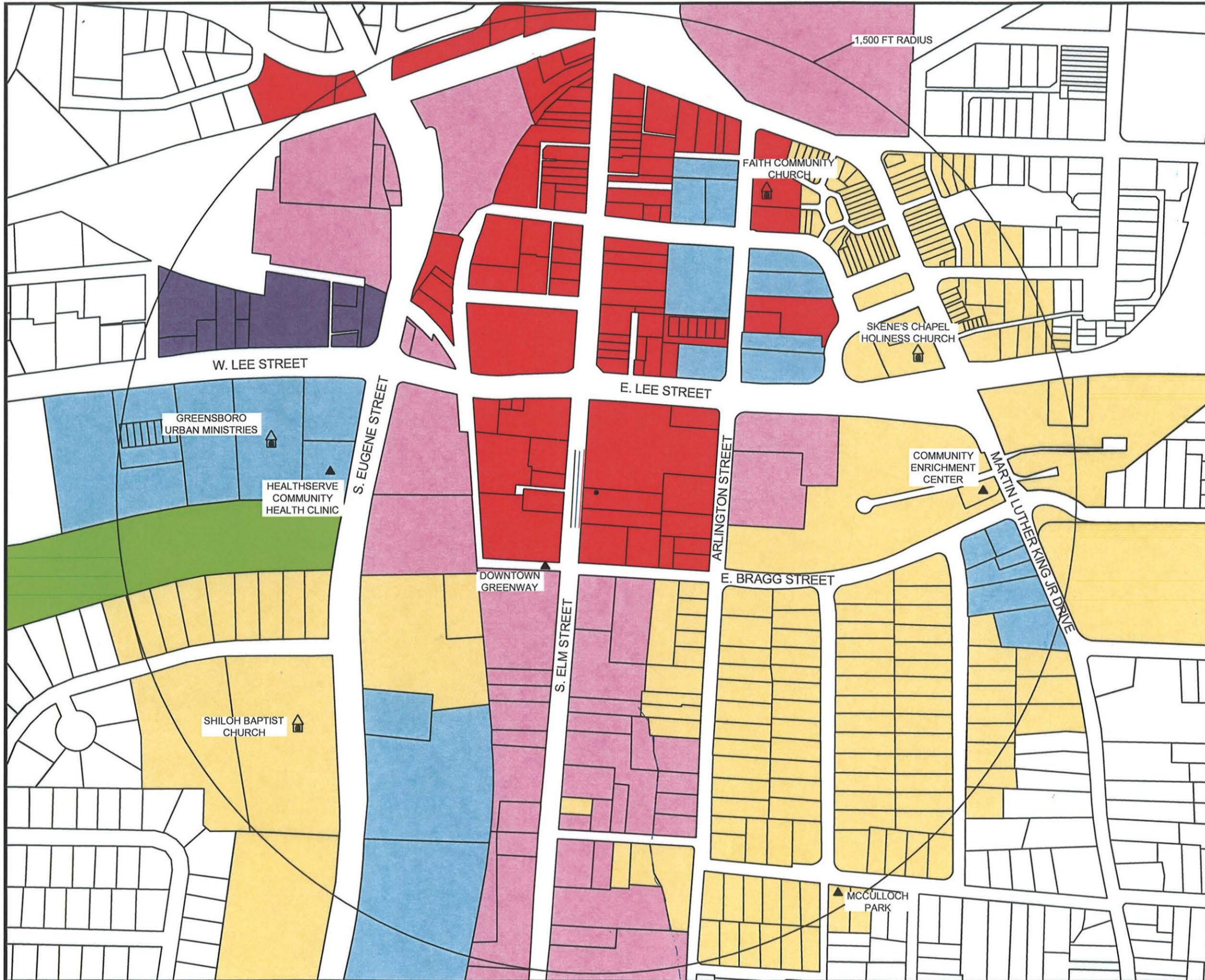


- LEGEND**
- SIDEWALL SOIL SAMPLE LOCATION
 - ▽ WATER TABLE SURFACE



TITLE GEOLOGIC CROSS-SECTIONS	
PROJECT 725 S. ELM STREET SITE 725 S. ELM STREET GREENSBORO, NORTH CAROLINA	
 3334 Hillsborough Street Raleigh, North Carolina 27607 919-847-4241(p) 919-847-4261(f) License # C-1269 / #C-245 Geology	
DATE: 07/24/12	REVISION NO. 0
JOB NO. GRN-011	FIGURE NO. 3

S:\AAA-Master Projects\City of Greensboro - GRN\GRN-011 Multiple Sites\Task 8_725 S Elm St\Figures\Figures.dwg, Canon IR-C4080, C44580 PCL6 (temporary)3253.pcs



LEGEND

- RELEASE LOCATION
- UNNAMED TRIBUTARY TO MILE RUN CREEK
- SUBSURFACE WATER LINE
- SUBSURFACE GAS LINE
- SUBSURFACE SEWER LINE

ZONING DISTRICTS

- CD-CB (CENTRAL BUSINESS)
- LI (LIGHT INDUSTRIAL)
- HI (HEAVY INDUSTRIAL)
- O, GB, CM, HB (OFFICE, GENERAL BUSINESS, HIGHWAY BUSINESS, & COMMERCIAL)
- RS, RM, TN (RESIDENTIAL & TRADITIONAL NEIGHBORHOOD)
- PI (PUBLIC & INSTITUTIONAL)

SENSITIVE LAND USE FEATURES

- ⛪ CHURCH
- ▲ LOCATION OF PUBLIC ASSEMBLY

NOTE
ZONING DATA FROM CITY OF GREENSBORO



TITLE	POTENTIAL RECEPTORS AND LAND USE MAP	
PROJECT	725 S. ELM STREET SITE 725 S. ELM STREET GREENSBORO, NORTH CAROLINA	
		3334 Hillsborough Street Raleigh, North Carolina 27607 919-847-4241(p) 919-847-4261(f) License # C-1269 / # C-245 Geology
DATE:	07/24/12	REVISION NO. 0
JOB NO.	GRN-011	FIGURE NO. 4

Appendix A
Health and Safety Plan



Health & Safety Plan
Brownfields Site Investigation
725 S. Elm Street Site
H&H Job No. GRN-011

Site History (Describe what is known about the site. i.e., type of facility, operations, chemicals, etc.).

The subject site is a former residence located at 725 S. Elm Street in Greensboro, North Carolina. Previous investigations at the site indicated that a heating oil underground storage tank (UST) is present at the site at the site. Redevelopment plans include construction of a commercial building at the site.

Scope of Work (Describe task(s) to be performed).

H&H will be overseeing UST closure activities at the site, including removal of the tank, excavation, and soil sampling. I

Potential Hazards (List known or suspected hazards present on-site and preventative measures).

(1) **Physical Hazards** (i.e., fire, explosion, traffic, slips, trips, and falls, etc.).

- Contact with potential subsurface utilities (i.e., fire, explosion; electrocution hazards);
- Slips, trips, and falls;
- Lifting hazards; and/or
- Pinch points.

(2) **Chemical Hazards** (i.e., chemicals or products stored on-site).

Potential chemical hazards include petroleum constituents (i.e., volatile organic compounds), metals, and polynuclear aromatic hydrocarbons (PAHs).

(3) **Biological Hazards** (i.e., toxic insects, poisonous plants, and poisonous snakes).

- Toxic insects (i.e., ticks, wasps, bees, spiders, and fire ants).

- Cold or heat stress
- Slippery surfaces due to ice or snow

(1) Minimum Site Requirements (Review site-specific information prior to entering the site).

- 40-hour OSHA HAZWOPER Training (8-hour Site Supervisor Training for on-site coordinator)
- Medical Monitoring Program Participant

(2) Specialized Training Required and/or Requirements (i.e., site specific, special permits, etc.).

- Contact NC one-call service (811)

Emergency Response

(1) On-site emergency contact person and telephone number:

- Elizabeth Link (City of Greensboro) – phone # (336) 373-3693

(2) Other emergency contacts as appropriate: (i.e., fire, ambulance, 911, etc.)

- Ambulance, Police, and Fire – phone # 911
- Leo Moretz, PG, Project Manager - phone # (919) 740-3717
- Shannon Cottrill, Health & Safety Officer - (704) 577-8810
- Timothy Klotz, Site Safety Officer - phone # (919) 218-6991

(3) Hospital: (i.e., address and telephone number). **Attach Hospital Route Map or Directions**

Moses H. Cone Memorial Hospital – 1200 N. Elm Street, Greensboro, NC 27401
(336) 832-7000 (See Attached Hospital Map)

In the event of an emergency situation, on-site personnel are to immediately notify the appropriate emergency responder (i.e., fire, rescue, police, etc.), and take any corrective actions or emergency procedures that can be safely performed (i.e., first aid, CPR, etc.). When conditions permit, on-site personnel must notify the H&H Project Manager and Health & Safety Officer that an incident has occurred. On-site personnel should review and be familiar with the phone numbers (provide above) and the location of the nearest hospital (see attached).

Personal Protective Equipment (PPE)

(1) PPE Required:

The following PPE will be required during the performance of site activities:

Safety glasses	At all times during the performance of site work, regardless of the task
Safety shoes/boots	At all times during the performance of site work, regardless of the task
Traffic safety vest	At any time where work is performed in areas of vehicular traffic and heavy equipment, or within 25 ft of such an area
Hearing Protection	At any time where noise levels are above natural ambient levels, at any time when working within 25 ft of operational heavy equipment (i.e., drill rig), and at any time when utilizing portable equipment which creates noise levels above natural ambient levels (i.e., drills, saws, etc).

**Health & Safety Plan for
Brownfields Site Investigation**

Leather work gloves	At any time the use of hand protection is warranted, including but not limited to, operations involving the use of hand tools
Nitrile gloves	At any time environmental samples are collected or contaminated media is being handled
Hard hat	At any time when working within 25ft of operational heavy equipment and when working within a space with limited overhead clearance and/or overhead obstructions
Respirator	At any time when volatile organic vapor measurements indicate levels at or in excess of the action level established for the site (see Exposure Monitoring below). When used, the appropriate respirator cartridge must be used (i.e., organic vapor). Consultation with the Project Manager and Health & Safety Officer is <u>required</u> prior to the use of a respirator.

Exposure Monitoring (Describe exposure monitoring to be conducted).

If conditions warrant (i.e., recognition of offensive odors) during excavation activities, a photoionization detector (PID) shall be utilized to monitor potential exposure to volatile organic vapors. Monitoring of potential volatile organic vapors will be conducted within the on-site personnel's breathing zone (i.e., 4 to 6 ft above ground surface), and will be conducted periodically during each day.

Because a PID can detect numerous volatile organic vapors and is not specific to a particular compound, the action level for organic vapors (as monitored with the PID) at this site is established at a level of 10 part per million (ppm), above background levels. This level is the recommended American Conference of Governmental Industrial Hygienist (ACGIH) time-weighted average (TWA) for the PAH naphthalene (ACGIH, *TLVs and BEIs*, 2009). If this level is observed or exceeded within the breathing zone for more than 1 minute, operations are to be suspended and personnel will move up wind of the work zone until levels dissipate. If organic vapor levels do not dissipate in the work zone, contact the H&H Project Manager and/or Health & Safety Officer, additional monitoring (i.e., Draeger tubes) and/or ventilation measures may be necessary in the work area and/or the required PPE may be modified to include the use of an appropriate respirator.

Note: Calibration, frequency of calibration and use of the PID must be performed in accordance with the manufacturer's specifications.

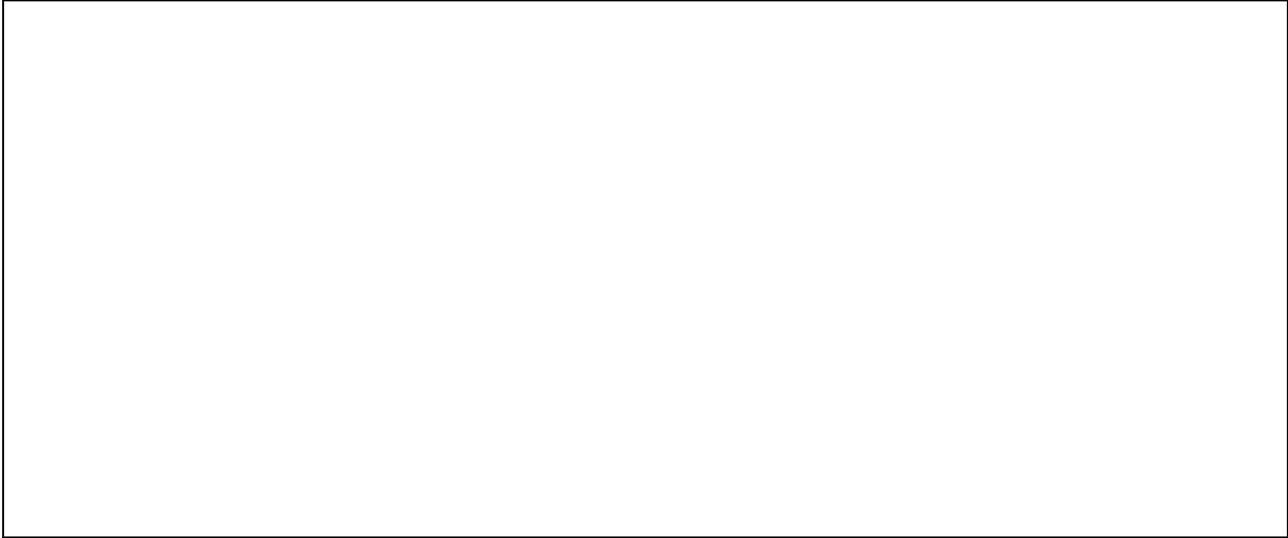
Decontamination Procedures

Sampling devices (i.e., hand auger, etc.) shall be decontaminated in accordance with Section 9.1, *Field Equipment Decontamination Procedure*, of the H&H Field Procedures Guide dated February 2010 or Generic QAPP dated April 22, 2010. All other sampling equipment shall be disposable (i.e., nitrile gloves, plastic baggies, etc.).

Site Control

H&H personnel shall take necessary measures to maintain site control and limit exposure of persons to hazardous conditions or hazardous materials. As needed, H&H shall establish work areas to be demarked with traffic cones, barricades, caution tape, or other appropriate measures. Since most work will be completed with a hand auger, it is unlikely that work areas will need to be demarked during this project. If needed (ie. Near a roadway or active community activity), a minimum perimeter of 25 ft should be established around the work area by one or more of the control measures listed above. Where possible, operations will not be conducted in a manner which increases exposure to traffic or other hazards. **No unauthorized personnel will be permitted in the work areas during site operations.**

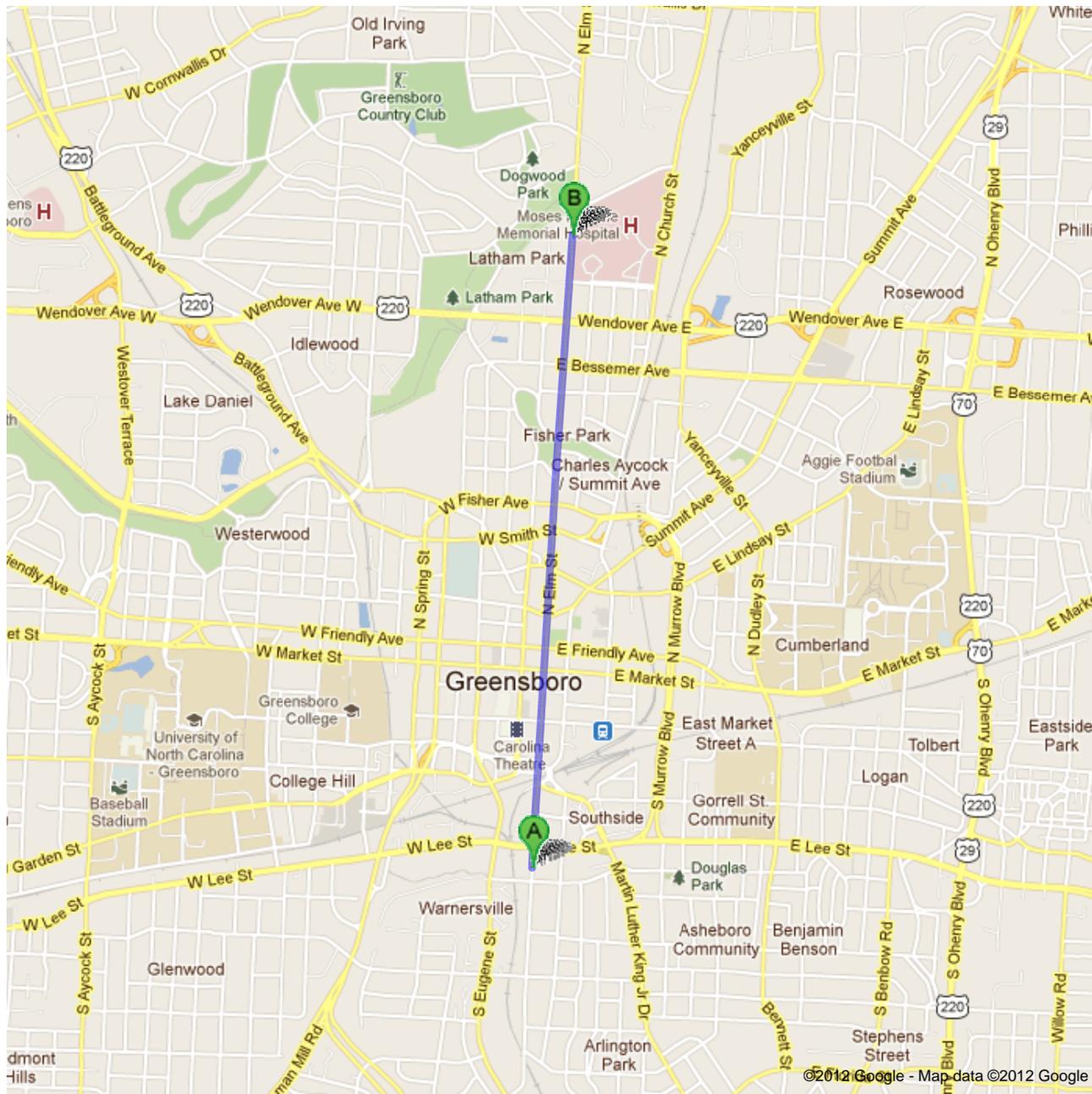
Additional Information/Notes



Hospital Directions and Map



Directions to 1200 N Elm St, Greensboro, NC
27401
1.9 mi – about 7 mins



©2012 Google - Map data ©2012 Google -



725 S Elm St, Greensboro, NC 27406

1. Head **north** on **S Elm St** toward **W Lee St**
Destination will be on the right
About 7 mins

go 1.9 mi
total 1.9 mi



1200 N Elm St, Greensboro, NC 27401

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

Map data ©2012 Google

Directions weren't right? Please find your route on maps.google.com and click "Report a problem" at the bottom left.

Appendix B
Disposal Documentation

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 1,150 gallons of non-hazardous contaminated water received on 06/20/2012 from:

Generator: City of Greensboro

Originating at: 725 S. Elm St.
Greensboro, NC

EC Waste ID #: 061239

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.



Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107

www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. **74548**

GENERATOR INFORMATION

Generator: City of Greensboro

Phone: 919-723-2507

Site Address: 725 S. Elm Street

City/State: Greensboro, NC

Contact: Tim Klotz

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____

Material: Water

Empty Weight (lbs): _____

Contaminant: #2 Fuel Oil

Net Weight (lbs): _____

Quantity

1150

Tons Drums Pails Sacs Yards Other: Ed

TRANSPORTER INFORMATION

Transporter: Evo Corporation

Phone: 336-725-5844

Truck #: 402

Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: 

Date: 6/20/12

FACILITY INFORMATION

Evo Project #: 061239

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: 

Date: 06-20-2012

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier

TANK DISPOSAL CERTIFICATE

Tank Owner: City of Greensboro

Site Address: 725 S. Elm St.
Greensboro, NC

Tank Description:

<u>Tank Number</u>	<u>Size of Tank</u>	<u>Contents</u>
1	2,000 Gallons	#2 Fuel Oil

Transporter: Evo Corporation

EC Project #: 061239

Disposal Certification:

Evo Corporation does hereby certify that the above named storage tank was transported to OmniSource Southeast in Winston-Salem, NC for proper disposal and recycling.



Signature

Thomas W. Hammett
CEO
Evo Corporation

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 12.55 tons of non-hazardous contaminated material received on 06/21/2012 from:

Generator: City of Greensboro

Originating at: 725 S. Elm St.
Greensboro, NC

EC Waste ID #: 061239

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.



Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107

www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. 74547

GENERATOR INFORMATION

Generator: City of Greensboro

Phone: 919-723-2507

Site Address: 725 S. Elm Street

City/State: Greensboro, NC

Contact: Tim Klotz

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 58040

Material: Soil

Empty Weight (lbs): 32940

Contaminant: #2 Fuel Oil

Net Weight (lbs): 25100

Quantity

12.55

Tons

Drums

Pails

Sacs

Yards

Other: _____

TRANSPORTER INFORMATION

Transporter: Evo Corporation

Phone: 336-725-5844

Truck #: 2027516

Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [Signature]

Date: 6-20-12

FACILITY INFORMATION

Evo Project #: 061239

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: [Signature]

Date: 6/21/12

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier



OmniSource

SOUTHEAST
3415 Glenn Avenue
Winston-Salem, NC 27105
(336) 725-8333

Customer EVO

Truck ID 202/316 MP

Commodity Dirt Contaminated

Paid 5.00

[Signature]
NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2012
JONATHAN BLACKWELL 38757
INVALID UNLESS SIGNED



Greensboro
Job # 061239

10:15 AM 6/21/2012
58040 16 6

Appendix C
Photographs



Photograph 1: Uncovering the UST and pumping out residual liquid.



Photograph 2: Removal of UST from ground



Photograph 3: Corrosion/holes in UST.



Photograph 4: 2,000-gallon UST following removal from ground.



Photograph 5: Loading potentially-impacted soil for proper disposal.



Photograph 6: Installation of monitoring well MW-1A.

Appendix D

Laboratory Analytical Report and Chain-of-Custody



Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 1287

Case Narrative

06/29/2012

Hart & Hickman (Raleigh)
Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Lab Submittal Date: 06/22/2012
Prism Work Order: 2060508

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

President/Project Manager

Reviewed By

Data Qualifiers Key Reference:

- A Surrogate recovery outside the QC limits due to emulsion.
- D RPD value outside of the control limits.
- M Matrix spike outside of the control limits.
- BRL Below Reporting Limit
- MDL Method Detection Limit
- RPD Relative Percent Difference
- * Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
MW-1	2060508-01	Water	06/20/12	06/22/12
MW-DUP	2060508-02	Water	06/20/12	06/22/12
Trip Blank	2060508-03	Water	06/20/12	06/22/12

Samples received in good condition at 3.0 degrees C unless otherwise noted.

Prism ID	Client ID	Parameter	Method	Result	Units
2060508-02	MW-DUP	Bis(2-ethylhexyl) maleate	*625	39	ug/L
2060508-02	MW-DUP	unknown (1)	*625	11	ug/L
2060508-02	MW-DUP	unknown 1	*625	11	ug/L



Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 2060508-01
Prism Work Order: 2060508
Time Collected: 06/20/12 13:35
Time Submitted: 06/22/12 09:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Extractable Petroleum Hydrocarbons by GC/FID

C9-C18 Aliphatics	BRL	ug/L	110	11	1	*MADEP EPH	6/29/12 0:30	EAJ	P2F0497
C19-C36 Aliphatics	BRL	ug/L	110	26	1	*MADEP EPH	6/29/12 0:30	EAJ	P2F0497
C11-C22 Aromatics	BRL	ug/L	110	46	1	*MADEP EPH	6/29/12 0:23	EAJ	P2F0497

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	82 %	40-140
o-Terphenyl	76 %	40-140
2-Fluorobiphenyl	77 %	40-140
2-Bromonaphthalene	74 %	40-140

Semivolatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	ug/L	10	1.8	1	*625	6/27/12 20:30	KC	P2F0484
1,2-Dichlorobenzene	BRL	ug/L	10	1.8	1	*625	6/27/12 20:30	KC	P2F0484
1,3-Dichlorobenzene	BRL	ug/L	10	1.8	1	*625	6/27/12 20:30	KC	P2F0484
1,4-Dichlorobenzene	BRL	ug/L	10	1.8	1	*625	6/27/12 20:30	KC	P2F0484
2,4,6-Trichlorophenol	BRL	ug/L	10	2.0	1	*625	6/27/12 20:30	KC	P2F0484
2,4-Dichlorophenol	BRL	ug/L	10	1.8	1	*625	6/27/12 20:30	KC	P2F0484
2,4-Dimethylphenol	BRL	ug/L	10	1.6	1	*625	6/27/12 20:30	KC	P2F0484
2,4-Dinitrophenol	BRL	ug/L	10	5.8	1	*625	6/27/12 20:30	KC	P2F0484
2,4-Dinitrotoluene	BRL	ug/L	10	2.6	1	*625	6/27/12 20:30	KC	P2F0484
2,6-Dinitrotoluene	BRL	ug/L	10	2.2	1	*625	6/27/12 20:30	KC	P2F0484
2-Chloronaphthalene	BRL	ug/L	10	2.0	1	*625	6/27/12 20:30	KC	P2F0484
2-Chlorophenol	BRL	ug/L	10	1.8	1	*625	6/27/12 20:30	KC	P2F0484
2-Methylnaphthalene	BRL	ug/L	10	2.0	1	*625	6/27/12 20:30	KC	P2F0484
2-Nitrophenol	BRL	ug/L	10	1.5	1	*625	6/27/12 20:30	KC	P2F0484
3,3'-Dichlorobenzidine	BRL	ug/L	10	2.9	1	*625	6/27/12 20:30	KC	P2F0484
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	5.4	1	*625	6/27/12 20:30	KC	P2F0484
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.9	1	*625	6/27/12 20:30	KC	P2F0484
4-Chloro-3-methylphenol	BRL	ug/L	10	1.7	1	*625	6/27/12 20:30	KC	P2F0484
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.6	1	*625	6/27/12 20:30	KC	P2F0484
4-Nitrophenol	BRL	ug/L	50	1.1	1	*625	6/27/12 20:30	KC	P2F0484
Acenaphthene	BRL	ug/L	10	1.8	1	*625	6/27/12 20:30	KC	P2F0484
Acenaphthylene	BRL	ug/L	10	1.8	1	*625	6/27/12 20:30	KC	P2F0484
Anthracene	BRL	ug/L	10	2.6	1	*625	6/27/12 20:30	KC	P2F0484
Benzidine	BRL	ug/L	100	11	1	*625	6/27/12 20:30	KC	P2F0484
Benzo(a)anthracene	BRL	ug/L	10	2.0	1	*625	6/27/12 20:30	KC	P2F0484
Benzo(a)pyrene	BRL	ug/L	10	2.2	1	*625	6/27/12 20:30	KC	P2F0484
Benzo(b)fluoranthene	BRL	ug/L	10	1.7	1	*625	6/27/12 20:30	KC	P2F0484
Benzo(g,h,i)perylene	BRL	ug/L	10	3.2	1	*625	6/27/12 20:30	KC	P2F0484
Benzo(k)fluoranthene	BRL	ug/L	10	2.3	1	*625	6/27/12 20:30	KC	P2F0484
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.0	1	*625	6/27/12 20:30	KC	P2F0484
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.7	1	*625	6/27/12 20:30	KC	P2F0484
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	1.6	1	*625	6/27/12 20:30	KC	P2F0484
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	3.2	1	*625	6/27/12 20:30	KC	P2F0484

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Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Water

Client Sample ID: MW-1
 Prism Sample ID: 2060508-01
 Prism Work Order: 2060508
 Time Collected: 06/20/12 13:35
 Time Submitted: 06/22/12 09:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Butyl benzyl phthalate	BRL	ug/L	10	2.0	1	*625	6/27/12 20:30	KC	P2F0484
Chrysene	BRL	ug/L	10	2.2	1	*625	6/27/12 20:30	KC	P2F0484
Dibenzo(a,h)anthracene	BRL	ug/L	10	3.2	1	*625	6/27/12 20:30	KC	P2F0484
Diethyl phthalate	BRL	ug/L	10	2.1	1	*625	6/27/12 20:30	KC	P2F0484
Dimethyl phthalate	BRL	ug/L	10	2.9	1	*625	6/27/12 20:30	KC	P2F0484
Di-n-butyl phthalate	BRL	ug/L	10	2.5	1	*625	6/27/12 20:30	KC	P2F0484
Di-n-octyl phthalate	BRL	ug/L	10	3.2	1	*625	6/27/12 20:30	KC	P2F0484
Fluoranthene	BRL	ug/L	10	2.5	1	*625	6/27/12 20:30	KC	P2F0484
Fluorene	BRL	ug/L	10	1.7	1	*625	6/27/12 20:30	KC	P2F0484
Hexachlorobenzene	BRL	ug/L	10	2.4	1	*625	6/27/12 20:30	KC	P2F0484
Hexachlorobutadiene	BRL	ug/L	10	1.8	1	*625	6/27/12 20:30	KC	P2F0484
Hexachlorocyclopentadiene	BRL	ug/L	10	2.0	1	*625	6/27/12 20:30	KC	P2F0484
Hexachloroethane	BRL	ug/L	10	1.8	1	*625	6/27/12 20:30	KC	P2F0484
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.8	1	*625	6/27/12 20:30	KC	P2F0484
Isophorone	BRL	ug/L	10	2.0	1	*625	6/27/12 20:30	KC	P2F0484
Naphthalene	BRL	ug/L	10	1.7	1	*625	6/27/12 20:30	KC	P2F0484
Nitrobenzene	BRL	ug/L	10	1.9	1	*625	6/27/12 20:30	KC	P2F0484
N-Nitrosodimethylamine	BRL	ug/L	10	1.1	1	*625	6/27/12 20:30	KC	P2F0484
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.8	1	*625	6/27/12 20:30	KC	P2F0484
N-Nitrosodiphenylamine	BRL	ug/L	10	1.9	1	*625	6/27/12 20:30	KC	P2F0484
Pentachlorophenol	BRL	ug/L	10	2.7	1	*625	6/27/12 20:30	KC	P2F0484
Phenanthrene	BRL	ug/L	10	2.0	1	*625	6/27/12 20:30	KC	P2F0484
Phenol	BRL	ug/L	10	0.48	1	*625	6/27/12 20:30	KC	P2F0484
Pyrene	BRL	ug/L	10	1.4	1	*625	6/27/12 20:30	KC	P2F0484
TIC: Tentatively Identified Compounds	Not Detected	ug/L			1	*625	6/27/12 20:30	KC	P2F0484

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	28 %	31-144
2-Fluorobiphenyl	64 %	49-118
2-Fluorophenol	22 %	22-84
Nitrobenzene-d5	58 %	43-123
Phenol-d5	21 %	10-63
Terphenyl-d14	69 %	49-151

Volatile Organic 602 Compounds by GC/MS

Benzene	BRL	ug/L	0.50	0.054	1	*SM6200 B	6/25/12 23:47	VHL	P2F0466
Ethylbenzene	BRL	ug/L	1.0	0.054	1	*SM6200 B	6/25/12 23:47	VHL	P2F0466
Isopropyl Ether	BRL	ug/L	5.0	0.042	1	*SM6200 B	6/25/12 23:47	VHL	P2F0466
m,p-Xylenes	BRL	ug/L	2.0	0.11	1	*SM6200 B	6/25/12 23:47	VHL	P2F0466
Methyl-tert-Butyl Ether	BRL	ug/L	5.0	0.056	1	*SM6200 B	6/25/12 23:47	VHL	P2F0466
Naphthalene	BRL	ug/L	5.0	0.094	1	*SM6200 B	6/25/12 23:47	VHL	P2F0466
o-Xylene	BRL	ug/L	1.0	0.064	1	*SM6200 B	6/25/12 23:47	VHL	P2F0466
Toluene	BRL	ug/L	1.0	0.057	1	*SM6200 B	6/25/12 23:47	VHL	P2F0466
Xylenes, total	BRL	ug/L	3.0	0.17	1	*SM6200 B	6/25/12 23:47	VHL	P2F0466

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Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 2060508-01
Prism Work Order: 2060508
Time Collected: 06/20/12 13:35
Time Submitted: 06/22/12 09:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Surrogate			Recovery		Control Limits	
			4-Bromofluorobenzene			107 %		70-130	
			Dibromofluoromethane			97 %		70-130	
			Toluene-d8			96 %		70-130	

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	ug/L	50	3.1	1	*MADEP VPH	6/26/12 3:23	ANG	P2F0449
C9-C12 Aliphatics	BRL	ug/L	50	9.1	1	*MADEP VPH	6/26/12 3:23	ANG	P2F0449
C9-C10 Aromatics	BRL	ug/L	50	0.64	1	*MADEP VPH	6/26/12 3:23	ANG	P2F0449
			Surrogate			Recovery		Control Limits	
			2,5-Dibromotoluene (PID)			83 %		70-130	
			2,5-Dibromotoluene (FID)			93 %		70-130	



Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Water

Client Sample ID: MW-DUP
Prism Sample ID: 2060508-02
Prism Work Order: 2060508
Time Collected: 06/20/12 00:00
Time Submitted: 06/22/12 09:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	9.7	1	*MADEP EPH	6/29/12 14:15	EAJ	P2F0497
C19-C36 Aliphatics	BRL	ug/L	100	24	1	*MADEP EPH	6/29/12 14:15	EAJ	P2F0497
C11-C22 Aromatics	BRL	ug/L	100	42	1	*MADEP EPH	6/29/12 14:14	EAJ	P2F0497

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	87 %	40-140
o-Terphenyl	85 %	40-140
2-Fluorobiphenyl	106 %	40-140
2-Bromonaphthalene	105 %	40-140

Semivolatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	ug/L	10	1.8	1	*625	6/27/12 21:09	KC	P2F0484
1,2-Dichlorobenzene	BRL	ug/L	10	1.8	1	*625	6/27/12 21:09	KC	P2F0484
1,3-Dichlorobenzene	BRL	ug/L	10	1.8	1	*625	6/27/12 21:09	KC	P2F0484
1,4-Dichlorobenzene	BRL	ug/L	10	1.8	1	*625	6/27/12 21:09	KC	P2F0484
2,4,6-Trichlorophenol	BRL	ug/L	10	2.0	1	*625	6/27/12 21:09	KC	P2F0484
2,4-Dichlorophenol	BRL	ug/L	10	1.8	1	*625	6/27/12 21:09	KC	P2F0484
2,4-Dimethylphenol	BRL	ug/L	10	1.6	1	*625	6/27/12 21:09	KC	P2F0484
2,4-Dinitrophenol	BRL	ug/L	10	5.8	1	*625	6/27/12 21:09	KC	P2F0484
2,4-Dinitrotoluene	BRL	ug/L	10	2.6	1	*625	6/27/12 21:09	KC	P2F0484
2,6-Dinitrotoluene	BRL	ug/L	10	2.2	1	*625	6/27/12 21:09	KC	P2F0484
2-Chloronaphthalene	BRL	ug/L	10	2.0	1	*625	6/27/12 21:09	KC	P2F0484
2-Chlorophenol	BRL	ug/L	10	1.8	1	*625	6/27/12 21:09	KC	P2F0484
2-Methylnaphthalene	BRL	ug/L	10	2.0	1	*625	6/27/12 21:09	KC	P2F0484
2-Nitrophenol	BRL	ug/L	10	1.5	1	*625	6/27/12 21:09	KC	P2F0484
3,3'-Dichlorobenzidine	BRL	ug/L	10	2.9	1	*625	6/27/12 21:09	KC	P2F0484
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	5.4	1	*625	6/27/12 21:09	KC	P2F0484
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.9	1	*625	6/27/12 21:09	KC	P2F0484
4-Chloro-3-methylphenol	BRL	ug/L	10	1.7	1	*625	6/27/12 21:09	KC	P2F0484
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.6	1	*625	6/27/12 21:09	KC	P2F0484
4-Nitrophenol	BRL	ug/L	50	1.1	1	*625	6/27/12 21:09	KC	P2F0484
Acenaphthene	BRL	ug/L	10	1.8	1	*625	6/27/12 21:09	KC	P2F0484
Acenaphthylene	BRL	ug/L	10	1.8	1	*625	6/27/12 21:09	KC	P2F0484
Anthracene	BRL	ug/L	10	2.6	1	*625	6/27/12 21:09	KC	P2F0484
Benzidine	BRL	ug/L	100	11	1	*625	6/27/12 21:09	KC	P2F0484
Benzo(a)anthracene	BRL	ug/L	10	2.0	1	*625	6/27/12 21:09	KC	P2F0484
Benzo(a)pyrene	BRL	ug/L	10	2.2	1	*625	6/27/12 21:09	KC	P2F0484
Benzo(b)fluoranthene	BRL	ug/L	10	1.7	1	*625	6/27/12 21:09	KC	P2F0484
Benzo(g,h,i)perylene	BRL	ug/L	10	3.2	1	*625	6/27/12 21:09	KC	P2F0484
Benzo(k)fluoranthene	BRL	ug/L	10	2.3	1	*625	6/27/12 21:09	KC	P2F0484
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.0	1	*625	6/27/12 21:09	KC	P2F0484
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.7	1	*625	6/27/12 21:09	KC	P2F0484
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	1.6	1	*625	6/27/12 21:09	KC	P2F0484
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	3.2	1	*625	6/27/12 21:09	KC	P2F0484

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Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Water

Client Sample ID: MW-DUP
 Prism Sample ID: 2060508-02
 Prism Work Order: 2060508
 Time Collected: 06/20/12 00:00
 Time Submitted: 06/22/12 09:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Butyl benzyl phthalate	BRL	ug/L	10	2.0	1	*625	6/27/12 21:09	KC	P2F0484
Chrysene	BRL	ug/L	10	2.2	1	*625	6/27/12 21:09	KC	P2F0484
Dibenzo(a,h)anthracene	BRL	ug/L	10	3.2	1	*625	6/27/12 21:09	KC	P2F0484
Diethyl phthalate	BRL	ug/L	10	2.1	1	*625	6/27/12 21:09	KC	P2F0484
Dimethyl phthalate	BRL	ug/L	10	2.9	1	*625	6/27/12 21:09	KC	P2F0484
Di-n-butyl phthalate	BRL	ug/L	10	2.5	1	*625	6/27/12 21:09	KC	P2F0484
Di-n-octyl phthalate	BRL	ug/L	10	3.2	1	*625	6/27/12 21:09	KC	P2F0484
Fluoranthene	BRL	ug/L	10	2.5	1	*625	6/27/12 21:09	KC	P2F0484
Fluorene	BRL	ug/L	10	1.7	1	*625	6/27/12 21:09	KC	P2F0484
Hexachlorobenzene	BRL	ug/L	10	2.4	1	*625	6/27/12 21:09	KC	P2F0484
Hexachlorobutadiene	BRL	ug/L	10	1.8	1	*625	6/27/12 21:09	KC	P2F0484
Hexachlorocyclopentadiene	BRL	ug/L	10	2.0	1	*625	6/27/12 21:09	KC	P2F0484
Hexachloroethane	BRL	ug/L	10	1.8	1	*625	6/27/12 21:09	KC	P2F0484
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.8	1	*625	6/27/12 21:09	KC	P2F0484
Isophorone	BRL	ug/L	10	2.0	1	*625	6/27/12 21:09	KC	P2F0484
Naphthalene	BRL	ug/L	10	1.7	1	*625	6/27/12 21:09	KC	P2F0484
Nitrobenzene	BRL	ug/L	10	1.9	1	*625	6/27/12 21:09	KC	P2F0484
N-Nitrosodimethylamine	BRL	ug/L	10	1.1	1	*625	6/27/12 21:09	KC	P2F0484
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.8	1	*625	6/27/12 21:09	KC	P2F0484
N-Nitrosodiphenylamine	BRL	ug/L	10	1.9	1	*625	6/27/12 21:09	KC	P2F0484
Pentachlorophenol	BRL	ug/L	10	2.7	1	*625	6/27/12 21:09	KC	P2F0484
Phenanthrene	BRL	ug/L	10	2.0	1	*625	6/27/12 21:09	KC	P2F0484
Phenol	BRL	ug/L	10	0.48	1	*625	6/27/12 21:09	KC	P2F0484
Pyrene	BRL	ug/L	10	1.4	1	*625	6/27/12 21:09	KC	P2F0484
TIC: Bis(2-ethylhexyl) maleate	39	ug/L			1	*625	6/27/12 21:09	KC	P2F0484
TIC: unknown (1)	11	ug/L			1	*625	6/27/12 21:09	KC	P2F0484
TIC: unknown 1	11	ug/L			1	*625	6/27/12 21:09	KC	P2F0484

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	26 %	31-144 A
2-Fluorobiphenyl	71 %	49-118
2-Fluorophenol	22 %	22-84
Nitrobenzene-d5	66 %	43-123
Phenol-d5	26 %	10-63
Terphenyl-d14	82 %	49-151

Volatile Organic 602 Compounds by GC/MS

Benzene	BRL	ug/L	0.50	0.054	1	*SM6200 B	6/26/12 0:12	VHL	P2F0466
Ethylbenzene	BRL	ug/L	1.0	0.054	1	*SM6200 B	6/26/12 0:12	VHL	P2F0466
Isopropyl Ether	BRL	ug/L	5.0	0.042	1	*SM6200 B	6/26/12 0:12	VHL	P2F0466
m,p-Xylenes	BRL	ug/L	2.0	0.11	1	*SM6200 B	6/26/12 0:12	VHL	P2F0466
Methyl-tert-Butyl Ether	BRL	ug/L	5.0	0.056	1	*SM6200 B	6/26/12 0:12	VHL	P2F0466
Naphthalene	BRL	ug/L	5.0	0.094	1	*SM6200 B	6/26/12 0:12	VHL	P2F0466
o-Xylene	BRL	ug/L	1.0	0.064	1	*SM6200 B	6/26/12 0:12	VHL	P2F0466
Toluene	BRL	ug/L	1.0	0.057	1	*SM6200 B	6/26/12 0:12	VHL	P2F0466

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Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Water

Client Sample ID: MW-DUP
Prism Sample ID: 2060508-02
Prism Work Order: 2060508
Time Collected: 06/20/12 00:00
Time Submitted: 06/22/12 09:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Xylenes, total	BRL	ug/L	3.0	0.17	1	*SM6200 B	6/26/12 0:12	VHL	P2F0466
			Surrogate		Recovery		Control Limits		
			4-Bromofluorobenzene		103 %		70-130		
			Dibromofluoromethane		99 %		70-130		
			Toluene-d8		95 %		70-130		

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	ug/L	50	3.1	1	*MADEP VPH	6/26/12 3:54	ANG	P2F0449
C9-C12 Aliphatics	BRL	ug/L	50	9.1	1	*MADEP VPH	6/26/12 3:54	ANG	P2F0449
C9-C10 Aromatics	BRL	ug/L	50	0.64	1	*MADEP VPH	6/26/12 3:54	ANG	P2F0449
			Surrogate		Recovery		Control Limits		
			2,5-Dibromotoluene (PID)		83 %		70-130		
			2,5-Dibromotoluene (FID)		93 %		70-130		

Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Water

Client Sample ID: Trip Blank
 Prism Sample ID: 2060508-03
 Prism Work Order: 2060508
 Time Collected: 06/20/12 00:00
 Time Submitted: 06/22/12 09:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Volatile Organic 602 Compounds by GC/MS

Benzene	BRL	ug/L	0.50	0.054	1	*SM6200 B	6/25/12 20:50	VHL	P2F0466
Ethylbenzene	BRL	ug/L	1.0	0.054	1	*SM6200 B	6/25/12 20:50	VHL	P2F0466
Isopropyl Ether	BRL	ug/L	5.0	0.042	1	*SM6200 B	6/25/12 20:50	VHL	P2F0466
m,p-Xylenes	BRL	ug/L	2.0	0.11	1	*SM6200 B	6/25/12 20:50	VHL	P2F0466
Methyl-tert-Butyl Ether	BRL	ug/L	5.0	0.056	1	*SM6200 B	6/25/12 20:50	VHL	P2F0466
Naphthalene	BRL	ug/L	5.0	0.094	1	*SM6200 B	6/25/12 20:50	VHL	P2F0466
o-Xylene	BRL	ug/L	1.0	0.064	1	*SM6200 B	6/25/12 20:50	VHL	P2F0466
Toluene	BRL	ug/L	1.0	0.057	1	*SM6200 B	6/25/12 20:50	VHL	P2F0466
Xylenes, total	BRL	ug/L	3.0	0.17	1	*SM6200 B	6/25/12 20:50	VHL	P2F0466

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	102 %	70-130
Dibromofluoromethane	102 %	70-130
Toluene-d8	94 %	70-130



Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2060508
Time Submitted: 6/22/2012 9:05:00AM

Volatile Organic 602 Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0466 - SM6200 B										
Blank (P2F0466-BLK1) Prepared & Analyzed: 06/25/12										
Benzene	BRL	0.50	ug/L							
Ethylbenzene	BRL	1.0	ug/L							
Isopropyl Ether	BRL	5.0	ug/L							
m,p-Xylenes	BRL	2.0	ug/L							
Methyl-tert-Butyl Ether	BRL	5.0	ug/L							
Naphthalene	BRL	5.0	ug/L							
o-Xylene	BRL	1.0	ug/L							
Toluene	BRL	1.0	ug/L							
Xylenes, total	BRL	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	50.4		ug/L	50.00		101	70-130			
Surrogate: Dibromofluoromethane	49.0		ug/L	50.00		98	70-130			
Surrogate: Toluene-d8	47.2		ug/L	50.00		94	70-130			
LCS (P2F0466-BS1) Prepared & Analyzed: 06/25/12										
Benzene	17.6	0.50	ug/L	20.00		88	70-130			
Ethylbenzene	21.8	1.0	ug/L	20.00		109	70-130			
Isopropyl Ether	16.4	5.0	ug/L	20.00		82	70-130			
m,p-Xylenes	46.4	2.0	ug/L	40.00		116	70-130			
Methyl-tert-Butyl Ether	20.1	5.0	ug/L	20.00		101	70-130			
Naphthalene	20.3	5.0	ug/L	20.00		102	70-130			
o-Xylene	21.9	1.0	ug/L	20.00		110	70-130			
Toluene	18.5	1.0	ug/L	20.00		92	70-130			
Xylenes, total	68.3	3.0	ug/L	60.00		114	70-130			
Surrogate: 4-Bromofluorobenzene	52.4		ug/L	50.00		105	70-130			
Surrogate: Dibromofluoromethane	48.8		ug/L	50.00		98	70-130			
Surrogate: Toluene-d8	49.0		ug/L	50.00		98	70-130			
LCS Dup (P2F0466-BSD1) Prepared & Analyzed: 06/25/12										
Benzene	17.4	0.50	ug/L	20.00		87	70-130	2	200	
Ethylbenzene	20.5	1.0	ug/L	20.00		102	70-130	6	200	
Isopropyl Ether	16.1	5.0	ug/L	20.00		81	70-130	2	200	
m,p-Xylenes	44.4	2.0	ug/L	40.00		111	70-130	4	200	
Methyl-tert-Butyl Ether	19.7	5.0	ug/L	20.00		99	70-130	2	200	
Naphthalene	21.4	5.0	ug/L	20.00		107	70-130	5	200	
o-Xylene	21.0	1.0	ug/L	20.00		105	70-130	4	200	
Toluene	17.9	1.0	ug/L	20.00		89	70-130	3	200	
Xylenes, total	65.5	3.0	ug/L	60.00		109	70-130	4	200	
Surrogate: 4-Bromofluorobenzene	52.2		ug/L	50.00		104	70-130			
Surrogate: Dibromofluoromethane	49.7		ug/L	50.00		99	70-130			
Surrogate: Toluene-d8	47.8		ug/L	50.00		96	70-130			

Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2060508
 Time Submitted: 6/22/2012 9:05:00AM

Volatile Organic 602 Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0466 - SM6200 B										
Matrix Spike (P2F0466-MS1)										
Source: 2060508-01 Prepared: 06/25/12 Analyzed: 06/26/12										
Benzene	179	5.0	ug/L	200.0	BRL	89	70-130			
Ethylbenzene	209	10	ug/L	200.0	BRL	104	70-130			
Isopropyl Ether	162	50	ug/L	200.0	BRL	81	70-130			
m,p-Xylenes	456	20	ug/L	400.0	BRL	114	70-130			
Methyl-tert-Butyl Ether	209	50	ug/L	200.0	0.920	104	70-130			
Naphthalene	209	50	ug/L	200.0	BRL	104	70-130			
o-Xylene	216	10	ug/L	200.0	BRL	108	70-130			
Toluene	187	10	ug/L	200.0	BRL	94	70-130			
Xylenes, total	673	30	ug/L	600.0	BRL	112	70-130			
Surrogate: 4-Bromofluorobenzene	528		ug/L	500.0		106	70-130			
Surrogate: Dibromofluoromethane	506		ug/L	500.0		101	70-130			
Surrogate: Toluene-d8	470		ug/L	500.0		94	70-130			
Matrix Spike Dup (P2F0466-MSD1)										
Source: 2060508-01 Prepared: 06/25/12 Analyzed: 06/26/12										
Benzene	175	5.0	ug/L	200.0	BRL	87	70-130	2	20	
Ethylbenzene	207	10	ug/L	200.0	BRL	104	70-130	0.7	20	
Isopropyl Ether	160	50	ug/L	200.0	BRL	80	70-130	0.9	20	
m,p-Xylenes	454	20	ug/L	400.0	BRL	113	70-130	0.5	20	
Methyl-tert-Butyl Ether	206	50	ug/L	200.0	0.920	103	70-130	1	20	
Naphthalene	215	50	ug/L	200.0	BRL	108	70-130	3	20	
o-Xylene	214	10	ug/L	200.0	BRL	107	70-130	1	20	
Toluene	178	10	ug/L	200.0	BRL	89	70-130	5	20	
Xylenes, total	668	30	ug/L	600.0	BRL	111	70-130	0.7	20	
Surrogate: 4-Bromofluorobenzene	547		ug/L	500.0		109	70-130			
Surrogate: Dibromofluoromethane	503		ug/L	500.0		101	70-130			
Surrogate: Toluene-d8	494		ug/L	500.0		99	70-130			

Hart & Hickman (Raleigh)
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Project: 725 S. Elm St.

Prism Work Order: 2060508
 Time Submitted: 6/22/2012 9:05:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0484 - 625										
Blank (P2F0484-BLK1)										
Prepared & Analyzed: 06/27/12										
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chlorophenyl phenyl ether	BRL	10	ug/L							
4-Nitrophenol	BRL	50	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Benzidine	BRL	100	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							

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Project: 725 S. Elm St.

Prism Work Order: 2060508
 Time Submitted: 6/22/2012 9:05:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0484 - 625										
Blank (P2F0484-BLK1)										
Prepared & Analyzed: 06/27/12										
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitrosodimethylamine	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
<i>Surrogate: 2,4,6-Tribromophenol</i>	68.4		ug/L	100.0		68	31-144			
<i>Surrogate: 2-Fluorobiphenyl</i>	45.0		ug/L	50.00		90	49-118			
<i>Surrogate: 2-Fluorophenol</i>	56.2		ug/L	100.0		56	22-84			
<i>Surrogate: Nitrobenzene-d5</i>	42.8		ug/L	50.00		86	43-123			
<i>Surrogate: Phenol-d5</i>	36.9		ug/L	100.0		37	10-63			
<i>Surrogate: Terphenyl-d14</i>	31.4		ug/L	50.00		63	49-151			
LCS (P2F0484-BS1)										
Prepared & Analyzed: 06/27/12										
1,2,4-Trichlorobenzene	69.1	10	ug/L	100.0		69	44-142			
1,2-Dichlorobenzene	67.4	10	ug/L	100.0		67	32-129			
1,3-Dichlorobenzene	59.7	10	ug/L	100.0		60	20-124			
1,4-Dichlorobenzene	63.1	10	ug/L	100.0		63	20-124			
2,4,6-Trichlorophenol	74.7	10	ug/L	100.0		75	37-144			
2,4-Dichlorophenol	82.7	10	ug/L	100.0		83	39-135			
2,4-Dimethylphenol	83.2	10	ug/L	100.0		83	32-119			
2,4-Dinitrophenol	67.6	10	ug/L	100.0		68	10-191			
2,4-Dinitrotoluene	88.7	10	ug/L	100.0		89	39-139			
2,6-Dinitrotoluene	84.0	10	ug/L	100.0		84	50-158			
2-Chloronaphthalene	77.8	10	ug/L	100.0		78	60-118			
2-Chlorophenol	74.2	10	ug/L	100.0		74	23-134			
2-Methylnaphthalene	81.0	10	ug/L	100.0		81	18-121			
2-Nitrophenol	87.5	10	ug/L	100.0		87	29-182			
3,3'-Dichlorobenzidine	102	10	ug/L	100.0		102	10-262			
4,6-Dinitro-2-methylphenol	85.4	10	ug/L	100.0		85	10-181			
4-Bromophenyl phenyl ether	79.5	10	ug/L	100.0		80	53-127			
4-Chloro-3-methylphenol	86.8	10	ug/L	100.0		87	22-147			
4-Chlorophenyl phenyl ether	80.1	10	ug/L	100.0		80	25-158			
4-Nitrophenol	48.1	50	ug/L	100.0		48	10-132			
Acenaphthene	89.4	10	ug/L	100.0		89	47-145			
Acenaphthylene	71.3	10	ug/L	100.0		71	33-145			
Anthracene	94.9	10	ug/L	100.0		95	27-133			
Benzidine	48.3	100	ug/L	100.0		48	15-150			
Benzo(a)anthracene	84.8	10	ug/L	100.0		85	33-143			
Benzo(a)pyrene	90.6	10	ug/L	100.0		91	17-163			
Benzo(b)fluoranthene	84.0	10	ug/L	100.0		84	24-159			
Benzo(g,h,i)perylene	102	10	ug/L	100.0		102	10-219			

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Hart & Hickman (Raleigh)
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 Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2060508
 Time Submitted: 6/22/2012 9:05:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0484 - 625										
LCS (P2F0484-BS1)				Prepared & Analyzed: 06/27/12						
Benzo(k)fluoranthene	77.1	10	ug/L	100.0		77	11-162			
bis(2-Chloroethoxy)methane	80.6	10	ug/L	100.0		81	33-184			
Bis(2-Chloroethyl)ether	81.2	10	ug/L	100.0		81	12-158			
Bis(2-chloroisopropyl)ether	80.9	10	ug/L	100.0		81	36-166			
Bis(2-Ethylhexyl)phthalate	89.9	10	ug/L	100.0		90	10-158			
Butyl benzyl phthalate	78.6	10	ug/L	100.0		79	10-152			
Chrysene	77.2	10	ug/L	100.0		77	17-168			
Dibenzo(a,h)anthracene	105	10	ug/L	100.0		105	10-227			
Diethyl phthalate	75.1	10	ug/L	100.0		75	10-114			
Dimethyl phthalate	71.6	10	ug/L	100.0		72	10-112			
Di-n-butyl phthalate	94.5	10	ug/L	100.0		94	10-118			
Di-n-octyl phthalate	78.1	10	ug/L	100.0		78	10-146			
Fluoranthene	61.8	10	ug/L	100.0		62	26-137			
Fluorene	74.4	10	ug/L	100.0		74	59-121			
Hexachlorobenzene	78.3	10	ug/L	100.0		78	10-152			
Hexachlorobutadiene	63.7	10	ug/L	100.0		64	24-116			
Hexachlorocyclopentadiene	68.1	10	ug/L	100.0		68	32-117			
Hexachloroethane	69.2	10	ug/L	100.0		69	40-113			
Indeno(1,2,3-cd)pyrene	108	10	ug/L	100.0		108	10-171			
Isophorone	74.8	10	ug/L	100.0		75	21-196			
Naphthalene	65.6	10	ug/L	100.0		66	21-133			
Nitrobenzene	76.0	10	ug/L	100.0		76	35-180			
N-Nitrosodimethylamine	66.1	10	ug/L	100.0		66	10-119			
N-Nitroso-di-n-propylamine	85.4	10	ug/L	100.0		85	10-230			
N-Nitrosodiphenylamine	94.6	10	ug/L	100.0		95	69-152			
Pentachlorophenol	90.1	10	ug/L	100.0		90	14-176			
Phenanthrene	94.6	10	ug/L	100.0		95	54-120			
Phenol	43.0	10	ug/L	100.0		43	10-112			
Pyrene	73.4	10	ug/L	100.0		73	52-115			
Surrogate: 2,4,6-Tribromophenol	98.4		ug/L	100.0		98	31-144			
Surrogate: 2-Fluorobiphenyl	51.2		ug/L	50.00		102	49-118			
Surrogate: 2-Fluorophenol	65.5		ug/L	100.0		66	22-84			
Surrogate: Nitrobenzene-d5	46.7		ug/L	50.00		93	43-123			
Surrogate: Phenol-d5	46.4		ug/L	100.0		46	10-63			
Surrogate: Terphenyl-d14	38.7		ug/L	50.00		77	49-151			

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Project: 725 S. Elm St.

Prism Work Order: 2060508
 Time Submitted: 6/22/2012 9:05:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0484 - 625										
LCS Dup (P2F0484-BSD1)										
				Prepared & Analyzed: 06/27/12						
1,2,4-Trichlorobenzene	67.5	10	ug/L	100.0	68	44-142	2	200		
1,2-Dichlorobenzene	63.0	10	ug/L	100.0	63	32-129	7	200		
1,3-Dichlorobenzene	55.7	10	ug/L	100.0	56	20-124	7	200		
1,4-Dichlorobenzene	58.9	10	ug/L	100.0	59	20-124	7	200		
2,4,6-Trichlorophenol	72.4	10	ug/L	100.0	72	37-144	3	200		
2,4-Dichlorophenol	80.2	10	ug/L	100.0	80	39-135	3	200		
2,4-Dimethylphenol	78.7	10	ug/L	100.0	79	32-119	6	200		
2,4-Dinitrophenol	88.7	10	ug/L	100.0	89	10-191	27	200		
2,4-Dinitrotoluene	85.6	10	ug/L	100.0	86	39-139	4	200		
2,6-Dinitrotoluene	81.6	10	ug/L	100.0	82	50-158	3	200		
2-Chloronaphthalene	77.0	10	ug/L	100.0	77	60-118	1	200		
2-Chlorophenol	69.8	10	ug/L	100.0	70	23-134	6	200		
2-Methylnaphthalene	81.6	10	ug/L	100.0	82	18-121	0.8	200		
2-Nitrophenol	84.4	10	ug/L	100.0	84	29-182	4	200		
3,3'-Dichlorobenzidine	99.9	10	ug/L	100.0	100	10-262	2	200		
4,6-Dinitro-2-methylphenol	94.3	10	ug/L	100.0	94	10-181	10	200		
4-Bromophenyl phenyl ether	76.9	10	ug/L	100.0	77	53-127	3	200		
4-Chloro-3-methylphenol	83.2	10	ug/L	100.0	83	22-147	4	200		
4-Chlorophenyl phenyl ether	78.8	10	ug/L	100.0	79	25-158	2	200		
4-Nitrophenol	51.7	50	ug/L	100.0	52	10-132	7	200		
Acenaphthene	85.5	10	ug/L	100.0	86	47-145	4	200		
Acenaphthylene	69.6	10	ug/L	100.0	70	33-145	2	200		
Anthracene	95.7	10	ug/L	100.0	96	27-133	0.9	200		
Benzidine	85.3	100	ug/L	100.0	85	15-150	55	200		
Benzo(a)anthracene	86.4	10	ug/L	100.0	86	33-143	2	200		
Benzo(a)pyrene	95.6	10	ug/L	100.0	96	17-163	5	200		
Benzo(b)fluoranthene	85.2	10	ug/L	100.0	85	24-159	1	200		
Benzo(g,h,i)perylene	86.0	10	ug/L	100.0	86	10-219	17	200		
Benzo(k)fluoranthene	86.4	10	ug/L	100.0	86	11-162	11	200		
bis(2-Chloroethoxy)methane	79.2	10	ug/L	100.0	79	33-184	2	200		
Bis(2-Chloroethyl)ether	76.5	10	ug/L	100.0	77	12-158	6	200		
Bis(2-chloroisopropyl)ether	75.8	10	ug/L	100.0	76	36-166	6	200		
Bis(2-Ethylhexyl)phthalate	91.6	10	ug/L	100.0	92	10-158	2	200		
Butyl benzyl phthalate	82.6	10	ug/L	100.0	83	10-152	5	200		
Chrysene	81.9	10	ug/L	100.0	82	17-168	6	200		
Dibenzo(a,h)anthracene	92.6	10	ug/L	100.0	93	10-227	13	200		
Diethyl phthalate	73.8	10	ug/L	100.0	74	10-114	2	200		
Dimethyl phthalate	71.1	10	ug/L	100.0	71	10-112	0.7	200		
Di-n-butyl phthalate	89.2	10	ug/L	100.0	89	10-118	6	200		
Di-n-octyl phthalate	87.0	10	ug/L	100.0	87	10-146	11	200		
Fluoranthene	57.9	10	ug/L	100.0	58	26-137	6	200		
Fluorene	71.9	10	ug/L	100.0	72	59-121	3	200		
Hexachlorobenzene	77.3	10	ug/L	100.0	77	10-152	1	200		
Hexachlorobutadiene	61.9	10	ug/L	100.0	62	24-116	3	200		
Hexachlorocyclopentadiene	67.8	10	ug/L	100.0	68	32-117	0.5	200		
Hexachloroethane	64.5	10	ug/L	100.0	65	40-113	7	200		

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Hart & Hickman (Raleigh)
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Project: 725 S. Elm St.

Prism Work Order: 2060508
Time Submitted: 6/22/2012 9:05:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0484 - 625										
LCS Dup (P2F0484-BSD1)				Prepared & Analyzed: 06/27/12						
Indeno(1,2,3-cd)pyrene	95.5	10	ug/L	100.0		96	10-171	12	200	
Isophorone	74.4	10	ug/L	100.0		74	21-196	0.5	200	
Naphthalene	64.6	10	ug/L	100.0		65	21-133	2	200	
Nitrobenzene	74.5	10	ug/L	100.0		75	35-180	2	200	
N-Nitrosodimethylamine	59.0	10	ug/L	100.0		59	10-119	11	200	
N-Nitroso-di-n-propylamine	82.5	10	ug/L	100.0		83	10-230	3	200	
N-Nitrosodiphenylamine	89.9	10	ug/L	100.0		90	69-152	5	200	
Pentachlorophenol	93.9	10	ug/L	100.0		94	14-176	4	200	
Phenanthrene	92.4	10	ug/L	100.0		92	54-120	2	200	
Phenol	39.8	10	ug/L	100.0		40	10-112	8	200	
Pyrene	88.8	10	ug/L	100.0		89	52-115	19	200	
Surrogate: 2,4,6-Tribromophenol	94.2		ug/L	100.0		94	31-144			
Surrogate: 2-Fluorobiphenyl	48.9		ug/L	50.00		98	49-118			
Surrogate: 2-Fluorophenol	56.1		ug/L	100.0		56	22-84			
Surrogate: Nitrobenzene-d5	44.6		ug/L	50.00		89	43-123			
Surrogate: Phenol-d5	42.1		ug/L	100.0		42	10-63			
Surrogate: Terphenyl-d14	44.6		ug/L	50.00		89	49-151			
Matrix Spike (P2F0484-MS1)				Source: 2060508-01		Prepared & Analyzed: 06/27/12				
1,2,4-Trichlorobenzene	126	20	ug/L	200.0	BRL	63	44-142			
1,2-Dichlorobenzene	125	20	ug/L	200.0	2.18	61	32-129			
1,3-Dichlorobenzene	111	20	ug/L	200.0	BRL	55	20-124			
1,4-Dichlorobenzene	117	20	ug/L	200.0	BRL	58	20-124			
2,4,6-Trichlorophenol	62.3	20	ug/L	200.0	BRL	31	37-144			M
2,4-Dichlorophenol	100	20	ug/L	200.0	BRL	50	39-135			
2,4-Dimethylphenol	111	20	ug/L	200.0	BRL	56	32-119			
2,4-Dinitrophenol	20.6	20	ug/L	200.0	BRL	10	10-191			
2,4-Dinitrotoluene	156	20	ug/L	200.0	BRL	78	39-139			
2,6-Dinitrotoluene	153	20	ug/L	200.0	BRL	76	50-158			
2-Chloronaphthalene	145	20	ug/L	200.0	BRL	73	60-118			
2-Chlorophenol	98.8	20	ug/L	200.0	BRL	49	23-134			
2-Methylnaphthalene	149	20	ug/L	200.0	BRL	74	18-121			
2-Nitrophenol	107	20	ug/L	200.0	BRL	53	29-182			
3,3'-Dichlorobenzidine	182	20	ug/L	200.0	BRL	91	10-262			
4,6-Dinitro-2-methylphenol	30.3	20	ug/L	200.0	BRL	15	10-181			
4-Bromophenyl phenyl ether	151	20	ug/L	200.0	BRL	75	53-127			
4-Chloro-3-methylphenol	131	20	ug/L	200.0	BRL	66	22-147			
4-Chlorophenyl phenyl ether	146	20	ug/L	200.0	BRL	73	25-158			
4-Nitrophenol	70.1	100	ug/L	200.0	BRL	35	10-132			
Acenaphthene	159	20	ug/L	200.0	BRL	80	47-145			
Acenaphthylene	130	20	ug/L	200.0	BRL	65	33-145			
Anthracene	179	20	ug/L	200.0	BRL	90	27-133			
Benzidine	152	200	ug/L	200.0	BRL	76	15-150			
Benzo(a)anthracene	161	20	ug/L	200.0	BRL	81	33-143			
Benzo(a)pyrene	174	20	ug/L	200.0	BRL	87	17-163			
Benzo(b)fluoranthene	156	20	ug/L	200.0	BRL	78	24-159			
Benzo(g,h,i)perylene	174	20	ug/L	200.0	BRL	87	10-219			

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Project: 725 S. Elm St.

Prism Work Order: 2060508
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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0484 - 625										
Matrix Spike (P2F0484-MS1)										
Source: 2060508-01										
Prepared & Analyzed: 06/27/12										
Benzo(k)fluoranthene	153	20	ug/L	200.0	BRL	77	11-162			
bis(2-Chloroethoxy)methane	145	20	ug/L	200.0	BRL	73	33-184			
Bis(2-Chloroethyl)ether	145	20	ug/L	200.0	BRL	72	12-158			
Bis(2-chloroisopropyl)ether	144	20	ug/L	200.0	BRL	72	36-166			
Bis(2-Ethylhexyl)phthalate	168	20	ug/L	200.0	BRL	84	10-158			
Butyl benzyl phthalate	155	20	ug/L	200.0	BRL	78	10-152			
Chrysene	153	20	ug/L	200.0	BRL	76	17-168			
Dibenzo(a,h)anthracene	186	20	ug/L	200.0	BRL	93	10-227			
Diethyl phthalate	138	20	ug/L	200.0	BRL	69	10-114			
Dimethyl phthalate	142	20	ug/L	200.0	BRL	71	10-112			
Di-n-butyl phthalate	171	20	ug/L	200.0	BRL	86	10-118			
Di-n-octyl phthalate	152	20	ug/L	200.0	BRL	76	10-146			
Fluoranthene	112	20	ug/L	200.0	BRL	56	26-137			
Fluorene	135	20	ug/L	200.0	BRL	67	59-121			
Hexachlorobenzene	147	20	ug/L	200.0	BRL	73	10-152			
Hexachlorobutadiene	120	20	ug/L	200.0	BRL	60	24-116			
Hexachlorocyclopentadiene	129	20	ug/L	200.0	BRL	64	26-122			
Hexachloroethane	125	20	ug/L	200.0	BRL	62	40-113			
Indeno(1,2,3-cd)pyrene	192	20	ug/L	200.0	BRL	96	10-171			
Isophorone	126	20	ug/L	200.0	BRL	63	21-196			
Naphthalene	121	20	ug/L	200.0	BRL	61	21-133			
Nitrobenzene	136	20	ug/L	200.0	BRL	68	35-180			
N-Nitrosodimethylamine	135	20	ug/L	200.0	BRL	67	10-119			
N-Nitroso-di-n-propylamine	152	20	ug/L	200.0	BRL	76	10-230			
N-Nitrosodiphenylamine	183	20	ug/L	200.0	BRL	92	57-156			
Pentachlorophenol	39.6	20	ug/L	200.0	BRL	20	14-176			
Phenanthrene	174	20	ug/L	200.0	BRL	87	54-120			
Phenol	85.5	20	ug/L	200.0	BRL	43	10-112			
Pyrene	161	20	ug/L	200.0	BRL	81	52-115			
Surrogate: 2,4,6-Tribromophenol	99.6		ug/L	200.0		50	31-144			
Surrogate: 2-Fluorobiphenyl	90.6		ug/L	100.0		91	49-118			
Surrogate: 2-Fluorophenol	91.7		ug/L	200.0		46	22-84			
Surrogate: Nitrobenzene-d5	83.7		ug/L	100.0		84	43-123			
Surrogate: Phenol-d5	87.6		ug/L	200.0		44	10-63			
Surrogate: Terphenyl-d14	74.6		ug/L	100.0		75	49-151			

Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2060508
 Time Submitted: 6/22/2012 9:05:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0484 - 625										
Matrix Spike Dup (P2F0484-MSD1)										
Source: 2060508-01										
Prepared & Analyzed: 06/27/12										
1,2,4-Trichlorobenzene	137	20	ug/L	200.0	BRL	68	44-142	8	30	
1,2-Dichlorobenzene	134	20	ug/L	200.0	2.18	66	32-129	7	34	
1,3-Dichlorobenzene	118	20	ug/L	200.0	BRL	59	20-124	6	36	
1,4-Dichlorobenzene	124	20	ug/L	200.0	BRL	62	20-124	6	35	
2,4,6-Trichlorophenol	105	20	ug/L	200.0	BRL	52	37-144	51	30	D
2,4-Dichlorophenol	140	20	ug/L	200.0	BRL	70	39-135	33	31	D
2,4-Dimethylphenol	122	20	ug/L	200.0	BRL	61	32-119	9	36	
2,4-Dinitrophenol	24.6	20	ug/L	200.0	BRL	12	10-191	18	41	
2,4-Dinitrotoluene	162	20	ug/L	200.0	BRL	81	39-139	4	24	
2,6-Dinitrotoluene	157	20	ug/L	200.0	BRL	79	50-158	3	28	
2-Chloronaphthalene	152	20	ug/L	200.0	BRL	76	60-118	4	30	
2-Chlorophenol	125	20	ug/L	200.0	BRL	63	23-134	24	37	
2-Methylnaphthalene	156	20	ug/L	200.0	BRL	78	18-121	4	33	
2-Nitrophenol	155	20	ug/L	200.0	BRL	77	29-182	37	33	D
3,3'-Dichlorobenzidine	178	20	ug/L	200.0	BRL	89	10-262	2	34	
4,6-Dinitro-2-methylphenol	58.1	20	ug/L	200.0	BRL	29	10-181	63	35	D
4-Bromophenyl phenyl ether	151	20	ug/L	200.0	BRL	75	53-127	0.1	21	
4-Chloro-3-methylphenol	154	20	ug/L	200.0	BRL	77	22-147	16	25	
4-Chlorophenyl phenyl ether	151	20	ug/L	200.0	BRL	75	25-158	3	29	
4-Nitrophenol	85.4	100	ug/L	200.0	BRL	43	10-132	20	40	
Acenaphthene	166	20	ug/L	200.0	BRL	83	47-145	4	33	
Acenaphthylene	135	20	ug/L	200.0	BRL	68	33-145	4	30	
Anthracene	176	20	ug/L	200.0	BRL	88	27-133	2	27	
Benzidine	185	200	ug/L	200.0	BRL	93	15-150	20	50	
Benzo(a)anthracene	167	20	ug/L	200.0	BRL	83	33-143	3	18	
Benzo(a)pyrene	182	20	ug/L	200.0	BRL	91	17-163	4	21	
Benzo(b)fluoranthene	165	20	ug/L	200.0	BRL	82	24-159	6	34	
Benzo(g,h,i)perylene	193	20	ug/L	200.0	BRL	96	10-219	10	27	
Benzo(k)fluoranthene	158	20	ug/L	200.0	BRL	79	11-162	3	39	
bis(2-Chloroethoxy)methane	157	20	ug/L	200.0	BRL	78	33-184	8	30	
Bis(2-Chloroethyl)ether	158	20	ug/L	200.0	BRL	79	12-158	9	33	
Bis(2-chloroisopropyl)ether	155	20	ug/L	200.0	BRL	78	36-166	8	34	
Bis(2-Ethylhexyl)phthalate	172	20	ug/L	200.0	BRL	86	10-158	2	21	
Butyl benzyl phthalate	155	20	ug/L	200.0	BRL	77	10-152	0.5	23	
Chrysene	161	20	ug/L	200.0	BRL	81	17-168	6	22	
Dibenzo(a,h)anthracene	201	20	ug/L	200.0	BRL	100	10-227	8	28	
Diethyl phthalate	144	20	ug/L	200.0	BRL	72	10-114	4	22	
Dimethyl phthalate	148	20	ug/L	200.0	BRL	74	10-112	4	25	
Di-n-butyl phthalate	164	20	ug/L	200.0	BRL	82	10-118	4	24	
Di-n-octyl phthalate	157	20	ug/L	200.0	BRL	78	10-146	3	21	
Fluoranthene	107	20	ug/L	200.0	BRL	53	26-137	5	26	
Fluorene	140	20	ug/L	200.0	BRL	70	59-121	3	30	
Hexachlorobenzene	150	20	ug/L	200.0	BRL	75	10-152	2	29	
Hexachlorobutadiene	127	20	ug/L	200.0	BRL	64	24-116	6	35	
Hexachlorocyclopentadiene	139	20	ug/L	200.0	BRL	70	26-122	8	36	
Hexachloroethane	138	20	ug/L	200.0	BRL	69	40-113	10	37	

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Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2060508
 Time Submitted: 6/22/2012 9:05:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0484 - 625										
Matrix Spike Dup (P2F0484-MSD1)										
Source: 2060508-01 Prepared & Analyzed: 06/27/12										
Indeno(1,2,3-cd)pyrene	204	20	ug/L	200.0	BRL	102	10-171	6	34	
Isophorone	140	20	ug/L	200.0	BRL	70	21-196	11	27	
Naphthalene	130	20	ug/L	200.0	BRL	65	21-133	7	35	
Nitrobenzene	149	20	ug/L	200.0	BRL	75	35-180	9	34	
N-Nitrosodimethylamine	154	20	ug/L	200.0	BRL	77	10-119	13	45	
N-Nitroso-di-n-propylamine	161	20	ug/L	200.0	BRL	81	10-230	6	33	
N-Nitrosodiphenylamine	189	20	ug/L	200.0	BRL	95	57-156	3	26	
Pentachlorophenol	84.9	20	ug/L	200.0	BRL	42	14-176	73	36	D
Phenanthrene	176	20	ug/L	200.0	BRL	88	54-120	1	23	
Phenol	105	20	ug/L	200.0	BRL	52	10-112	20	43	
Pyrene	175	20	ug/L	200.0	BRL	87	52-115	8	31	
Surrogate: 2,4,6-Tribromophenol	150		ug/L	200.0		75	31-144			
Surrogate: 2-Fluorobiphenyl	97.4		ug/L	100.0		97	49-118			
Surrogate: 2-Fluorophenol	127		ug/L	200.0		64	22-84			
Surrogate: Nitrobenzene-d5	92.2		ug/L	100.0		92	43-123			
Surrogate: Phenol-d5	112		ug/L	200.0		56	10-63			
Surrogate: Terphenyl-d14	83.6		ug/L	100.0		84	49-151			



Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2060508
 Time Submitted: 6/22/2012 9:05:00AM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0449 - MADEP VPH (W)										
Blank (P2F0449-BLK1)										
Prepared: 06/25/12 Analyzed: 06/26/12										
C5-C8 Aliphatics	BRL	50	ug/L							
C9-C12 Aliphatics	BRL	50	ug/L							
C9-C10 Aromatics	BRL	50	ug/L							
Surrogate: 2,5-Dibromotoluene (PID)	76.0		ug/L	100.0		76	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	85.3		ug/L	100.0		85	70-130			
LCS (P2F0449-BS1)										
Prepared: 06/25/12 Analyzed: 06/26/12										
C5-C8 Aliphatics	276	50	ug/L	340.9		81	70-130			
C9-C10 Aromatics	88.9	50	ug/L	113.6		78	70-130			
C9-C12 Aliphatic	307	50	ug/L	340.9		90	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	84.0		ug/L	100.0		84	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	93.8		ug/L	100.0		94	70-130			
LCS Dup (P2F0449-BSD1)										
Prepared: 06/25/12 Analyzed: 06/26/12										
C5-C8 Aliphatics	267	50	ug/L	340.9		78	70-130	3	200	
C9-C10 Aromatics	87.1	50	ug/L	113.6		77	70-130	2	200	
C9-C12 Aliphatic	303	50	ug/L	340.9		89	70-130	1	200	
Surrogate: 2,5-Dibromotoluene (PID)	82.7		ug/L	100.0		83	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	92.2		ug/L	100.0		92	70-130			

Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2060508
 Time Submitted: 6/22/2012 9:05:00AM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0497 - MADEP EPH (W)										
Blank (P2F0497-BLK1)										
Prepared: 06/27/12 Analyzed: 06/28/12										
C9-C18 Aliphatics	BRL	100	ug/L							
C19-C36 Aliphatics	BRL	100	ug/L							
C11-C22 Aromatics	BRL	100	ug/L							
Surrogate: 1-Chlorooctadecane	16.7		ug/L	20.00		84	40-140			
Surrogate: o-Terphenyl	14.2		ug/L	20.00		71	40-140			
Surrogate: 2-Fluorobiphenyl	31.0		ug/L	40.00		77	40-140			
Surrogate: 2-Bromonaphthalene	29.7		ug/L	40.00		74	40-140			
LCS (P2F0497-BS1)										
Prepared: 06/27/12 Analyzed: 06/28/12										
C9-C18 Aliphatics	311	100	ug/L	600.0		52	40-140			
C19-C36 Aliphatics	698	100	ug/L	800.0		87	40-140			
C11-C22 Aromatics	1200	100	ug/L	1700		71	40-140			
Surrogate: 1-Chlorooctadecane	20.3		ug/L	20.00		101	40-140			
Surrogate: o-Terphenyl	16.2		ug/L	20.00		81	40-140			
Surrogate: 2-Fluorobiphenyl	35.6		ug/L	40.00		89	40-140			
Surrogate: 2-Bromonaphthalene	35.2		ug/L	40.00		88	40-140			
LCS Dup (P2F0497-BSD1)										
Prepared: 06/27/12 Analyzed: 06/28/12										
C9-C18 Aliphatics	335	100	ug/L	600.0		56	40-140	8	50	
C19-C36 Aliphatics	666	100	ug/L	800.0		83	40-140	5	50	
C11-C22 Aromatics	1160	100	ug/L	1700		68	40-140	3	50	
Surrogate: 1-Chlorooctadecane	18.6		ug/L	20.00		93	40-140			
Surrogate: o-Terphenyl	15.3		ug/L	20.00		76	40-140			
Surrogate: 2-Fluorobiphenyl	35.5		ug/L	40.00		89	40-140			
Surrogate: 2-Bromonaphthalene	35.1		ug/L	40.00		88	40-140			
Matrix Spike (P2F0497-MS1)										
Source: 2060508-01 Prepared: 06/27/12 Analyzed: 06/28/12										
C9-C18 Aliphatics	357	100	ug/L	600.0	BRL	59	40-140			
C19-C36 Aliphatics	643	100	ug/L	800.0	BRL	80	40-140			
C11-C22 Aromatics	1080	100	ug/L	1700	BRL	63	40-140			
Surrogate: 1-Chlorooctadecane	18.1		ug/L	20.00		90	40-140			
Surrogate: o-Terphenyl	15.1		ug/L	20.00		75	40-140			
Surrogate: 2-Fluorobiphenyl	31.4		ug/L	40.00		78	40-140			
Surrogate: 2-Bromonaphthalene	30.7		ug/L	40.00		77	40-140			

Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2060508
 Time Submitted: 6/22/2012 9:05:00AM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P2F0497 - MADEP EPH (W)

Matrix Spike Dup (P2F0497-MSD1)	Source: 2060508-01		Prepared: 06/27/12		Analyzed: 06/28/12					
C9-C18 Aliphatics	331	100	ug/L	600.0	BRL	55	40-140	7	50	
C19-C36 Aliphatics	621	100	ug/L	800.0	BRL	78	40-140	3	50	
C11-C22 Aromatics	1030	100	ug/L	1700	BRL	61	40-140	4	50	
Surrogate: 1-Chlorooctadecane	16.6		ug/L	20.00		83	40-140			
Surrogate: o-Terphenyl	13.3		ug/L	20.00		66	40-140			
Surrogate: 2-Fluorobiphenyl	29.1		ug/L	40.00		73	40-140			
Surrogate: 2-Bromonaphthalene	29.6		ug/L	40.00		74	40-140			

Sample Extraction Data

Prep Method: MADEP EPH (W)

Lab Number	Batch	Initial	Final	Date/Time
2060508-01	P2F0497	900 mL	2 mL	06/27/12 13:00
2060508-01	P2F0497	900 mL	2 mL	06/27/12 13:00
2060508-02	P2F0497	980 mL	2 mL	06/27/12 13:00
2060508-02	P2F0497	980 mL	2 mL	06/27/12 13:00

Prep Method: 625

Lab Number	Batch	Initial	Final	Date/Time
2060508-01	P2F0484	1000 mL	1 mL	06/27/12 8:30
2060508-02	P2F0484	1000 mL	1 mL	06/27/12 8:30

Prep Method: SM6200 B

Lab Number	Batch	Initial	Final	Date/Time
2060508-01	P2F0466	10 mL	10 mL	06/25/12 11:52
2060508-02	P2F0466	10 mL	10 mL	06/25/12 11:52
2060508-03	P2F0466	10 mL	10 mL	06/25/12 11:52

Prep Method: MADEP VPH (W)

Lab Number	Batch	Initial	Final	Date/Time
2060508-01	P2F0449	44 mL	44 mL	06/25/12 15:46
2060508-02	P2F0449	44 mL	44 mL	06/25/12 15:46



Full-Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

Client Company Name: Harta Hickman
Report To/Contact Name: T. Klotz L. Montz
Reporting Address: 3334 Hillsborough St. Raleigh NC 27607

Phone: 919-847-4241 Fax (Yes) (No): tklotz@harta-hickman.com
Email (Yes) (No) Email Address: montz@harta-hickman.com
EDD Type: PDF Excel Other
Site Location Name: 725 S. Elm St.
Site Location Physical Address: Cornelnsboro NC

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: 725 S. Elm St.
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL (I) III IV) provisions and/or QC Requirements
Invoice To: H+H
Address: _____

LAB USE ONLY		YES	NO	N/A
Samples INTACT upon arrival?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received ON WET ICE? Temp <u>3.0</u>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER PRESERVATIVES indicated?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received WITHIN HOLDING TIMES?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CUSTODY SEALS INTACT?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOLATILES rec'd W/OUT HEADSPACE?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER CONTAINERS used?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Purchase Order No./Billing Reference GRN-011
Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
"Working Days" 6-9 Days Standard 10 days Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC USACE FL NC
SC OTHER N/A
Water Chlorinated: YES NO
Sample Iced Upon Collection: YES NO

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED				REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO.	SIZE		VOCs by 6002	SVOCs by 6025	TLCS by 6025	VPH/EPH by 6025		
MW-1	6-20-12	1335	Water	A, VOA	10	1 L, 40mL	HCl	X	X	X			φ1
MW-1 MS/MSD	6-20-12	1335	Water	A, VOA	10	1 L, 40mL	HCl	X	X	X			L
MW-DUP	6-20-12	—	Water	A, VOA	10	1 L, 40mL	HCl	X	X	X			φ2
Trip Blank	—	—	Water	A, VOA	2	40mL	HCl	X					φ3

Sampler's Signature Zuby Khe Sampled By (Print Name) Timothy Klotz Affiliation H+H

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature) <u>Zuby Khe</u>	Received By: (Signature) <u>[Signature]</u>	Date <u>6/21/12</u>	Military/Hours <u>14:25</u>
Relinquished By: (Signature) <u>[Signature]</u>	Received By: (Signature) <u>[Signature]</u>	Date <u>6/22/12</u>	09:05
Relinquished By: (Signature) <u>[Signature]</u>	Received For Prism Laboratories By: <u>[Signature]</u>	Date <u>6/22/12</u>	0905

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
Fed Ex UPS Hand-delivered Prism Field Service Other
COC Group No. 27604548

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

Page 24 of 24

CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

PDES: NC SC
 UST: NC SC
 GROUNDWATER: NC SC
 DRINKING WATER: NC SC
 SOLID WASTE: NC SC
 RCRA: NC SC
 CERCLA: NC SC
 LANDFILL: NC SC
 OTHER: NC SC

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL



Hart & Hickman (Raleigh)
Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Lab Submittal Date: 06/22/2012
Prism Work Order: 2060507

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

President/Project Manager

Reviewed By

Data Qualifiers Key Reference:

- D RPD value outside of the control limits.
- BRL Below Reporting Limit
- MDL Method Detection Limit
- RPD Relative Percent Difference
- * Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
SS-7	2060507-01	Solid	06/20/12	06/22/12
SS-8	2060507-02	Solid	06/20/12	06/22/12
SS-9	2060507-03	Solid	06/20/12	06/22/12
SS-10	2060507-04	Solid	06/20/12	06/22/12
SS-DUP3	2060507-05	Solid	06/20/12	06/22/12

Samples received in good condition at 3.2 degrees C unless otherwise noted.

Prism ID	Client ID	Parameter	Method	Result	Units
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There were no detections reported.

Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Solid

Client Sample ID: SS-7
Prism Sample ID: 2060507-01
Prism Work Order: 2060507
Time Collected: 06/20/12 15:25
Time Submitted: 06/22/12 09:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	7.4	1.1	1	*8015C	6/27/12 12:54	JMV	P2F0483
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			80 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.5	0.98	50	*8015C	6/25/12 17:50	ANG	P2F0439
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			124 %		50-137	

General Chemistry Parameters

% Solids	93.7	% by Weight	0.100	0.100	1	*SM2540 G	6/25/12 14:00	JAB	P2F0445
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Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Solid

Client Sample ID: SS-8
Prism Sample ID: 2060507-02
Prism Work Order: 2060507
Time Collected: 06/20/12 15:30
Time Submitted: 06/22/12 09:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	7.9	1.1	1	*8015C	6/27/12 13:30	JMV	P2F0483
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			69 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	5.5	1.2	50	*8015C	6/25/12 18:17	ANG	P2F0439
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			130 %		50-137	

General Chemistry Parameters

% Solids	89.0	% by Weight	0.100	0.100	1	*SM2540 G	6/25/12 14:00	JAB	P2F0445
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Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Solid

Client Sample ID: SS-9
Prism Sample ID: 2060507-03
Prism Work Order: 2060507
Time Collected: 06/20/12 15:35
Time Submitted: 06/22/12 09:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	8.7	1.2	1	*8015C	6/27/12 14:34	JMV	P2F0483
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			81 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	5.1	1.1	50	*8015C	6/25/12 18:45	ANG	P2F0439
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			130 %		50-137	

General Chemistry Parameters

% Solids	79.9	% by Weight	0.100	0.100	1	*SM2540 G	6/25/12 14:00	JAB	P2F0445
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Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Solid

Client Sample ID: SS-10
Prism Sample ID: 2060507-04
Prism Work Order: 2060507
Time Collected: 06/20/12 15:40
Time Submitted: 06/22/12 09:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	8.4	1.2	1	*8015C	6/27/12 15:07	JMV	P2F0483
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			68 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	5.6	1.2	50	*8015C	6/25/12 19:12	ANG	P2F0439
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			127 %		50-137	

General Chemistry Parameters

% Solids	82.8	% by Weight	0.100	0.100	1	*SM2540 G	6/25/12 14:00	JAB	P2F0445
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Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Solid

Client Sample ID: SS-DUP3
Prism Sample ID: 2060507-05
Prism Work Order: 2060507
Time Collected: 06/20/12 00:00
Time Submitted: 06/22/12 09:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	9.8	1.4	1	*8015C	6/27/12 15:44	JMV	P2F0483
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			72 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	6.1	1.3	50	*8015C	6/25/12 19:39	ANG	P2F0439
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			132 %		50-137	

General Chemistry Parameters

% Solids	71.3	% by Weight	0.100	0.100	1	*SM2540 G	6/25/12 14:00	JAB	P2F0445
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Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2060507
Time Submitted: 6/22/2012 9:05:00AM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0439 - 5035										
Blank (P2F0439-BLK1)										
Prepared & Analyzed: 06/25/12										
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	5.20		mg/kg wet	5.000		104	50-137			
LCS (P2F0439-BS1)										
Prepared & Analyzed: 06/25/12										
Gasoline Range Organics	60.6	5.0	mg/kg wet	50.00		121	41-138			
Surrogate: a,a,a-Trifluorotoluene	4.70		mg/kg wet	5.000		94	50-137			
LCS Dup (P2F0439-BSD1)										
Prepared & Analyzed: 06/25/12										
Gasoline Range Organics	60.6	5.0	mg/kg wet	50.00		121	41-138	0	200	
Surrogate: a,a,a-Trifluorotoluene	5.60		mg/kg wet	5.000		112	50-137			
Matrix Spike (P2F0439-MS1)										
Source: 2060507-01										
Prepared & Analyzed: 06/25/12										
Gasoline Range Organics	65.0	5.2	mg/kg dry	52.32	BRL	124	41-138			
Surrogate: a,a,a-Trifluorotoluene	6.12		mg/kg dry	5.232		117	50-137			
Matrix Spike Dup (P2F0439-MSD1)										
Source: 2060507-01										
Prepared & Analyzed: 06/25/12										
Gasoline Range Organics	61.7	5.3	mg/kg dry	52.73	BRL	117	41-138	5	34	
Surrogate: a,a,a-Trifluorotoluene	7.07		mg/kg dry	5.273		134	50-137			

Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2060507
 Time Submitted: 6/22/2012 9:05:00AM

Diesel Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0483 - 3545A										
Blank (P2F0483-BLK1)										
				Prepared & Analyzed: 06/27/12						
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	1.45		mg/kg wet	1.593		91	49-124			
LCS (P2F0483-BS1)										
				Prepared & Analyzed: 06/27/12						
Diesel Range Organics	61.6	7.0	mg/kg wet	79.94		77	55-109			
Surrogate: o-Terphenyl	1.26		mg/kg wet	1.599		79	49-124			
LCS Dup (P2F0483-BSD1)										
				Prepared & Analyzed: 06/27/12						
Diesel Range Organics	68.6	7.0	mg/kg wet	79.81		86	55-109	11	200	
Surrogate: o-Terphenyl	1.40		mg/kg wet	1.596		88	49-124			
Matrix Spike (P2F0483-MS1)										
		Source: 2060507-01		Prepared & Analyzed: 06/27/12						
Diesel Range Organics	70.0	7.4	mg/kg dry	85.04	BRL	82	50-117			
Surrogate: o-Terphenyl	1.11		mg/kg dry	1.701		65	49-124			
Matrix Spike Dup (P2F0483-MSD1)										
		Source: 2060507-01		Prepared & Analyzed: 06/27/12						
Diesel Range Organics	53.2	7.4	mg/kg dry	85.04	BRL	63	50-117	27	24	D
Surrogate: o-Terphenyl	1.06		mg/kg dry	1.701		62	49-124			



Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2060507
Time Submitted: 6/22/2012 9:05:00AM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0445 - NO PREP										
Blank (P2F0445-BLK1)					Prepared & Analyzed: 06/25/12					
% Solids	100	0.100	% by Weight							
Duplicate (P2F0445-DUP1)					Source: 2060507-01 Prepared & Analyzed: 06/25/12					
% Solids	92.3	0.100	% by Weight		93.7			2	20	

Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date/Time
2060507-01	P2F0483	25.08 g	1 mL	06/27/12 9:00
2060507-02	P2F0483	25.03 g	1 mL	06/27/12 9:00
2060507-03	P2F0483	25.07 g	1 mL	06/27/12 9:00
2060507-04	P2F0483	25.11 g	1 mL	06/27/12 9:00
2060507-05	P2F0483	25.05 g	1 mL	06/27/12 9:00

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
2060507-01	P2F0439	5.99 g	5 mL	06/25/12 11:39
2060507-02	P2F0439	5.08 g	5 mL	06/25/12 11:39
2060507-03	P2F0439	6.12 g	5 mL	06/25/12 11:39
2060507-04	P2F0439	5.42 g	5 mL	06/25/12 11:39
2060507-05	P2F0439	5.74 g	5 mL	06/25/12 11:39



Full-Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

Client Company Name: Hart & Hickman
Report To/Contact Name: T. Klotz, L. Moritz
Reporting Address: 3334 Hillsborough St. Raleigh NC 27607

Phone: 919-847-4241 Fax (Yes) (No):
Email (Yes) (No) Email Address: TKlotz@harthickman.com
EDD Type: PDF Excel Other moritz@harthickman.com
Site Location Name: 725 S. Elm St
Site Location Physical Address: Cerensboro NC

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: 725 S. Elm St.
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL III IV) provisions and/or QC Requirements
Invoice To: H+H
Address: _____

LAB USE ONLY			
	YES	NO	N/A
Samples INTACT upon arrival?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received ON WET ICE? Temp <u>3.2</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER PRESERVATIVES indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received WITHIN HOLDING TIMES?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CUSTODY SEALS INTACT?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOLATILES rec'd w/OUT HEADSPACE?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PROPER CONTAINERS used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Purchase Order No./Billing Reference GRN-011
Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
Working Days 6-9 Days Standard 10 days Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC USACE FL NC
SC OTHER N/A
Water Chlorinated: YES NO
Sample Iced Upon Collection: YES NO

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED				REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO.	SIZE		GR/DRO	VOCS	SVOCs	EPH/VPH		
SS-7	6-20-12	1525	Soil	G	12	40 mL 4 oz	Meth. Sod. Bic.	X	X	X	X	*Only run	Ø1
SS-7 MS/MSD	6-20-12	1525	Soil	G	12	40 mL 4 oz	Meth. Sod. Bic.	X	X	X	X	GR/DRO. ATT	L
SS-8	6-20-12	1530	Soil	G	12	40 mL 4 oz	Meth. Sod. Bic.	X	X	X	X	other analyses	Ø2
SS-9	6-20-12	1535	Soil	G	12	40 mL 4 oz	Meth. Sod. Bic.	X	X	X	X	(VOCS, SVOCs,	Ø3
SS-10	6-20-12	1540	Soil	G	12	40 mL 4 oz	Meth. Sod. Bic.	X	X	X	X	EPH/VPH) on	Ø4
SS-DUP 3	6-20-12	—	Soil	G	12	40 mL 4 oz	Meth. Sod. Bic.	X	X	X	X	hold until notification from H+H.	Ø5

Sampler's Signature Luby Khr Sampled By (Print Name) Timothy Klotz Affiliation H+H

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature) <u>Luby Khr</u>	Received By: (Signature) <u>Timothy Klotz</u>	Date <u>6/21/12</u>	Military/Hours <u>14:25</u>
Relinquished By: (Signature) <u>[Signature]</u>	Received By: (Signature) <u>[Signature]</u>	Date <u>6/22/12</u>	09:05
Relinquished By: (Signature) <u>[Signature]</u>	Received For Prism Laboratories By: <u>Jeanus Cole</u>	Date <u>6-20-12</u>	0905
Method of Shipment: <input type="checkbox"/> UPS <input type="checkbox"/> Hand-delivered <input checked="" type="checkbox"/> Prism Field Service <input type="checkbox"/> Other			COC Group No. <u>2Ø6Ø5Ø7</u>

Additional Comments:

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

Page 12 of 12

PRISM USE ONLY

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

GENER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

UST: NC SC
 GROUNDWATER: NC SC
 DRINKING WATER: NC SC
 SOLID WASTE: NC SC
 RCRA: NC SC
 CERCLA: NC SC
 LANDFILL: NC SC
 OTHER: NC SC



Full-Service Analytical &
Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 1287

Case Narrative

06/28/2012

Hart & Hickman (Raleigh)
Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Lab Submittal Date: 06/22/2012
Prism Work Order: 2060506

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

President/Project Manager

Reviewed By

Data Qualifiers Key Reference:

BRL Below Reporting Limit

MDL Method Detection Limit

RPD Relative Percent Difference

* Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
SS-11	2060506-01	Solid	06/21/12	06/22/12
SS-12	2060506-02	Solid	06/21/12	06/22/12

Samples received in good condition at 3.3 degrees C unless otherwise noted.

Prism ID	Client ID	Parameter	Method	Result	Units
2060506-02	SS-12	Diesel Range Organics	*8015C	12	mg/kg dry

Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Solid

Client Sample ID: SS-11
Prism Sample ID: 2060506-01
Prism Work Order: 2060506
Time Collected: 06/21/12 12:40
Time Submitted: 06/22/12 09:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	7.5	1.1	1	*8015C	6/27/12 11:26	JMV	P2F0483
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			78 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.0	0.89	50	*8015C	6/25/12 16:56	ANG	P2F0439
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			123 %		50-137	

General Chemistry Parameters

% Solids	93.0	% by Weight	0.100	0.100	1	*SM2540 G	6/25/12 14:00	JAB	P2F0445
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Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Solid

Client Sample ID: SS-12
Prism Sample ID: 2060506-02
Prism Work Order: 2060506
Time Collected: 06/21/12 12:20
Time Submitted: 06/22/12 09:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	12	mg/kg dry	7.9	1.1	1	*8015C	6/27/12 12:21	JMV	P2F0483
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			72 %		49-124	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.9	1.3	50	*8015C	6/25/12 17:23	ANG	P2F0439
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			117 %		50-137	
General Chemistry Parameters									
% Solids	88.4	% by Weight	0.100	0.100	1	*SM2540 G	6/25/12 14:00	JAB	P2F0445



Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2060506
Time Submitted: 6/22/2012 9:05:00AM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0439 - 5035										
Blank (P2F0439-BLK1)										
Prepared & Analyzed: 06/25/12										
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	5.20		mg/kg wet	5.000		104	50-137			
LCS (P2F0439-BS1)										
Prepared & Analyzed: 06/25/12										
Gasoline Range Organics	60.6	5.0	mg/kg wet	50.00		121	41-138			
Surrogate: a,a,a-Trifluorotoluene	4.70		mg/kg wet	5.000		94	50-137			
LCS Dup (P2F0439-BSD1)										
Prepared & Analyzed: 06/25/12										
Gasoline Range Organics	60.6	5.0	mg/kg wet	50.00		121	41-138	0	200	
Surrogate: a,a,a-Trifluorotoluene	5.60		mg/kg wet	5.000		112	50-137			



Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2060506
Time Submitted: 6/22/2012 9:05:00AM

Diesel Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2F0483 - 3545A										
Blank (P2F0483-BLK1)										
Prepared & Analyzed: 06/27/12										
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	1.45		mg/kg wet	1.593		91	49-124			
LCS (P2F0483-BS1)										
Prepared & Analyzed: 06/27/12										
Diesel Range Organics	61.6	7.0	mg/kg wet	79.94		77	55-109			
Surrogate: o-Terphenyl	1.26		mg/kg wet	1.599		79	49-124			
LCS Dup (P2F0483-BSD1)										
Prepared & Analyzed: 06/27/12										
Diesel Range Organics	68.6	7.0	mg/kg wet	79.81		86	55-109	11	200	
Surrogate: o-Terphenyl	1.40		mg/kg wet	1.596		88	49-124			



Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2060506
Time Submitted: 6/22/2012 9:05:00AM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P2F0445 - NO PREP

Blank (P2F0445-BLK1)

Prepared & Analyzed: 06/25/12

% Solids	100	0.100	% by Weight							
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Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date/Time
2060506-01	P2F0483	25.13 g	1 mL	06/27/12 9:00
2060506-02	P2F0483	25.12 g	1 mL	06/27/12 9:00

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
2060506-01	P2F0439	6.7 g	5 mL	06/25/12 11:39
2060506-02	P2F0439	4.79 g	5 mL	06/25/12 11:39



Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 1287

Case Narrative

07/12/2012

Hart & Hickman (Raleigh)
Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Lab Submittal Date: 07/02/2012
Prism Work Order: 2070026

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Narrative Notes:

Analysis note for Method 8270 (Client Sample SS-11, SS-12, SS-DUP-3): Reporting Limits were increased due to sample matrix.

Analysis note for Method 8270 MS/MSD: Client sample SS-11 was used for spiking. Because of the sample matrix, spike recoveries were outside of the control limits.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

President/Project Manager

Reviewed By

Data Qualifiers Key Reference:

- SR Surrogate recovery outside the QC limits.
- BRL Below Reporting Limit
- MDL Method Detection Limit
- RPD Relative Percent Difference
- * Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
SS-11	2070026-01	Solid	06/29/12	07/02/12
SS-12	2070026-02	Solid	06/29/12	07/02/12
SS-DUP3	2070026-03	Solid	06/29/12	07/02/12

Samples received in good condition at 5.0 degrees C unless otherwise noted.

Prism ID	Client ID	Parameter	Method	Result	Units
2070026-01	SS-11	Acetone	*8260B	0.033	mg/kg dry
2070026-03	SS-DUP3	Acetone	*8260B	0.026	mg/kg dry

Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Solid

Client Sample ID: SS-11
 Prism Sample ID: 2070026-01
 Prism Work Order: 2070026
 Time Collected: 06/29/12 10:45
 Time Submitted: 07/02/12 13:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Extractable Petroleum Hydrocarbons by GC/FID

C9-C18 Aliphatics	BRL	mg/kg dry	12	1.0	1	*MADEP EPH	7/11/12 19:29	EAJ	P2G0097
C19-C36 Aliphatics	BRL	mg/kg dry	12	1.1	1	*MADEP EPH	7/11/12 19:29	EAJ	P2G0097
C11-C22 Aromatics	BRL	mg/kg dry	12	2.7	1	*MADEP EPH	7/11/12 19:22	EAJ	P2G0097

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	81 %	40-140
o-Terphenyl	78 %	40-140
2-Fluorobiphenyl	90 %	40-140
2-Bromonaphthalene	88 %	40-140

General Chemistry Parameters

% Solids	84.2	% by Weight	0.100	0.100	1	*SM2540 G	7/3/12 14:00	JAB	P2G0052
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Semivolatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	mg/kg dry	7.8	2.9	20	*8270D	7/10/12 19:52	KC	P2G0076
1,2-Dichlorobenzene	BRL	mg/kg dry	7.8	2.6	20	*8270D	7/10/12 19:52	KC	P2G0076
1,3-Dichlorobenzene	BRL	mg/kg dry	7.8	2.6	20	*8270D	7/10/12 19:52	KC	P2G0076
1,4-Dichlorobenzene	BRL	mg/kg dry	7.8	2.5	20	*8270D	7/10/12 19:52	KC	P2G0076
2,4,5-Trichlorophenol	BRL	mg/kg dry	7.8	2.1	20	*8270D	7/10/12 19:52	KC	P2G0076
2,4,6-Trichlorophenol	BRL	mg/kg dry	7.8	2.6	20	*8270D	7/10/12 19:52	KC	P2G0076
2,4-Dichlorophenol	BRL	mg/kg dry	7.8	2.8	20	*8270D	7/10/12 19:52	KC	P2G0076
2,4-Dimethylphenol	BRL	mg/kg dry	7.8	3.2	20	*8270D	7/10/12 19:52	KC	P2G0076
2,4-Dinitrophenol	BRL	mg/kg dry	7.8	1.2	20	*8270D	7/10/12 19:52	KC	P2G0076
2,4-Dinitrotoluene	BRL	mg/kg dry	7.8	1.3	20	*8270D	7/10/12 19:52	KC	P2G0076
2,6-Dinitrotoluene	BRL	mg/kg dry	7.8	1.2	20	*8270D	7/10/12 19:52	KC	P2G0076
2-Chloronaphthalene	BRL	mg/kg dry	7.8	2.7	20	*8270D	7/10/12 19:52	KC	P2G0076
2-Chlorophenol	BRL	mg/kg dry	7.8	2.9	20	*8270D	7/10/12 19:52	KC	P2G0076
2-Methylnaphthalene	BRL	mg/kg dry	7.8	2.9	20	*8270D	7/10/12 19:52	KC	P2G0076
2-Methylphenol	BRL	mg/kg dry	7.8	2.7	20	*8270D	7/10/12 19:52	KC	P2G0076
2-Nitroaniline	BRL	mg/kg dry	7.8	1.4	20	*8270D	7/10/12 19:52	KC	P2G0076
2-Nitrophenol	BRL	mg/kg dry	7.8	2.9	20	*8270D	7/10/12 19:52	KC	P2G0076
3,3'-Dichlorobenzidine	BRL	mg/kg dry	7.8	1.3	20	*8270D	7/10/12 19:52	KC	P2G0076
3/4-Methylphenol	BRL	mg/kg dry	7.8	2.2	20	*8270D	7/10/12 19:52	KC	P2G0076
3-Nitroaniline	BRL	mg/kg dry	7.8	2.3	20	*8270D	7/10/12 19:52	KC	P2G0076
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	7.8	0.84	20	*8270D	7/10/12 19:52	KC	P2G0076
4-Bromophenyl phenyl ether	BRL	mg/kg dry	7.8	1.7	20	*8270D	7/10/12 19:52	KC	P2G0076
4-Chloro-3-methylphenol	BRL	mg/kg dry	7.8	2.8	20	*8270D	7/10/12 19:52	KC	P2G0076
4-Chloroaniline	BRL	mg/kg dry	7.8	2.7	20	*8270D	7/10/12 19:52	KC	P2G0076
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	7.8	2.3	20	*8270D	7/10/12 19:52	KC	P2G0076
4-Nitroaniline	BRL	mg/kg dry	7.8	1.9	20	*8270D	7/10/12 19:52	KC	P2G0076
4-Nitrophenol	BRL	mg/kg dry	7.8	0.97	20	*8270D	7/10/12 19:52	KC	P2G0076
Acenaphthene	BRL	mg/kg dry	7.8	2.4	20	*8270D	7/10/12 19:52	KC	P2G0076
Acenaphthylene	BRL	mg/kg dry	7.8	2.5	20	*8270D	7/10/12 19:52	KC	P2G0076
Aniline	BRL	mg/kg dry	7.8	2.7	20	*8270D	7/10/12 19:52	KC	P2G0076

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Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Solid

Client Sample ID: SS-11
 Prism Sample ID: 2070026-01
 Prism Work Order: 2070026
 Time Collected: 06/29/12 10:45
 Time Submitted: 07/02/12 13:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anthracene	BRL	mg/kg dry	7.8	1.5	20	*8270D	7/10/12 19:52	KC	P2G0076
Azobenzene	BRL	mg/kg dry	7.8	1.8	20	*8270D	7/10/12 19:52	KC	P2G0076
Benzo(a)anthracene	BRL	mg/kg dry	7.8	1.6	20	*8270D	7/10/12 19:52	KC	P2G0076
Benzo(a)pyrene	BRL	mg/kg dry	7.8	1.5	20	*8270D	7/10/12 19:52	KC	P2G0076
Benzo(b)fluoranthene	BRL	mg/kg dry	7.8	1.1	20	*8270D	7/10/12 19:52	KC	P2G0076
Benzo(g,h,i)perylene	BRL	mg/kg dry	7.8	2.5	20	*8270D	7/10/12 19:52	KC	P2G0076
Benzo(k)fluoranthene	BRL	mg/kg dry	7.8	2.3	20	*8270D	7/10/12 19:52	KC	P2G0076
Benzoic Acid	BRL	mg/kg dry	7.8	1.0	20	*8270D	7/10/12 19:52	KC	P2G0076
Benzyl alcohol	BRL	mg/kg dry	7.8	2.6	20	*8270D	7/10/12 19:52	KC	P2G0076
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	7.8	4.0	20	*8270D	7/10/12 19:52	KC	P2G0076
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	7.8	2.9	20	*8270D	7/10/12 19:52	KC	P2G0076
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	7.8	3.1	20	*8270D	7/10/12 19:52	KC	P2G0076
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	7.8	1.5	20	*8270D	7/10/12 19:52	KC	P2G0076
Butyl benzyl phthalate	BRL	mg/kg dry	7.8	1.7	20	*8270D	7/10/12 19:52	KC	P2G0076
Chrysene	BRL	mg/kg dry	7.8	1.7	20	*8270D	7/10/12 19:52	KC	P2G0076
Dibenzo(a,h)anthracene	BRL	mg/kg dry	7.8	2.5	20	*8270D	7/10/12 19:52	KC	P2G0076
Dibenzofuran	BRL	mg/kg dry	7.8	2.2	20	*8270D	7/10/12 19:52	KC	P2G0076
Diethyl phthalate	BRL	mg/kg dry	7.8	1.4	20	*8270D	7/10/12 19:52	KC	P2G0076
Dimethyl phthalate	BRL	mg/kg dry	7.8	1.5	20	*8270D	7/10/12 19:52	KC	P2G0076
Di-n-butyl phthalate	BRL	mg/kg dry	7.8	1.8	20	*8270D	7/10/12 19:52	KC	P2G0076
Di-n-octyl phthalate	BRL	mg/kg dry	7.8	1.7	20	*8270D	7/10/12 19:52	KC	P2G0076
Fluoranthene	BRL	mg/kg dry	7.8	1.6	20	*8270D	7/10/12 19:52	KC	P2G0076
Fluorene	BRL	mg/kg dry	7.8	1.8	20	*8270D	7/10/12 19:52	KC	P2G0076
Hexachlorobenzene	BRL	mg/kg dry	7.8	1.3	20	*8270D	7/10/12 19:52	KC	P2G0076
Hexachlorobutadiene	BRL	mg/kg dry	7.8	3.0	20	*8270D	7/10/12 19:52	KC	P2G0076
Hexachlorocyclopentadiene	BRL	mg/kg dry	7.8	2.4	20	*8270D	7/10/12 19:52	KC	P2G0076
Hexachloroethane	BRL	mg/kg dry	7.8	2.6	20	*8270D	7/10/12 19:52	KC	P2G0076
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	7.8	2.1	20	*8270D	7/10/12 19:52	KC	P2G0076
Isophorone	BRL	mg/kg dry	7.8	2.9	20	*8270D	7/10/12 19:52	KC	P2G0076
Naphthalene	BRL	mg/kg dry	7.8	3.0	20	*8270D	7/10/12 19:52	KC	P2G0076
Nitrobenzene	BRL	mg/kg dry	7.8	2.6	20	*8270D	7/10/12 19:52	KC	P2G0076
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	7.8	2.7	20	*8270D	7/10/12 19:52	KC	P2G0076
N-Nitrosodiphenylamine	BRL	mg/kg dry	7.8	1.6	20	*8270D	7/10/12 19:52	KC	P2G0076
Pentachlorophenol	BRL	mg/kg dry	7.8	0.64	20	*8270D	7/10/12 19:52	KC	P2G0076
Phenanthrene	BRL	mg/kg dry	7.8	1.4	20	*8270D	7/10/12 19:52	KC	P2G0076
Phenol	BRL	mg/kg dry	7.8	2.9	20	*8270D	7/10/12 19:52	KC	P2G0076
Pyrene	BRL	mg/kg dry	7.8	2.2	20	*8270D	7/10/12 19:52	KC	P2G0076

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	68 %	37-131
2-Fluorobiphenyl	120 %	47-130
2-Fluorophenol	63 %	44-117
Nitrobenzene-d5	85 %	45-121
Phenol-d5	91 %	37-127

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Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Solid

Client Sample ID: SS-11
 Prism Sample ID: 2070026-01
 Prism Work Order: 2070026
 Time Collected: 06/29/12 10:45
 Time Submitted: 07/02/12 13:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Terphenyl-d14		101 %		38-135		
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0046	0.00028	1	*8260B	7/5/12 19:50	VHL	P2G0089
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0046	0.00015	1	*8260B	7/5/12 19:50	VHL	P2G0089
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0046	0.00076	1	*8260B	7/5/12 19:50	VHL	P2G0089
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0046	0.00039	1	*8260B	7/5/12 19:50	VHL	P2G0089
1,1-Dichloroethane	BRL	mg/kg dry	0.0046	0.00039	1	*8260B	7/5/12 19:50	VHL	P2G0089
1,1-Dichloroethylene	BRL	mg/kg dry	0.0046	0.00028	1	*8260B	7/5/12 19:50	VHL	P2G0089
1,1-Dichloropropylene	BRL	mg/kg dry	0.0046	0.00048	1	*8260B	7/5/12 19:50	VHL	P2G0089
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0092	0.00034	1	*8260B	7/5/12 19:50	VHL	P2G0089
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0046	0.00069	1	*8260B	7/5/12 19:50	VHL	P2G0089
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0092	0.00027	1	*8260B	7/5/12 19:50	VHL	P2G0089
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0092	0.00090	1	*8260B	7/5/12 19:50	VHL	P2G0089
1,2-Dibromo-3-chloropropane	BRL	mg/kg dry	0.0046	0.0014	1	*8260B	7/5/12 19:50	VHL	P2G0089
1,2-Dibromoethane	BRL	mg/kg dry	0.0046	0.00053	1	*8260B	7/5/12 19:50	VHL	P2G0089
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0092	0.00021	1	*8260B	7/5/12 19:50	VHL	P2G0089
1,2-Dichloroethane	BRL	mg/kg dry	0.0046	0.00074	1	*8260B	7/5/12 19:50	VHL	P2G0089
1,2-Dichloropropane	BRL	mg/kg dry	0.0046	0.00029	1	*8260B	7/5/12 19:50	VHL	P2G0089
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0092	0.00022	1	*8260B	7/5/12 19:50	VHL	P2G0089
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0092	0.000063	1	*8260B	7/5/12 19:50	VHL	P2G0089
1,3-Dichloropropane	BRL	mg/kg dry	0.0046	0.00050	1	*8260B	7/5/12 19:50	VHL	P2G0089
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0092	0.00034	1	*8260B	7/5/12 19:50	VHL	P2G0089
2,2-Dichloropropane	BRL	mg/kg dry	0.0046	0.00029	1	*8260B	7/5/12 19:50	VHL	P2G0089
2-Chloroethyl Vinyl Ether	BRL	mg/kg dry	0.0092	0.0026	1	*8260B	7/5/12 19:50	VHL	P2G0089
2-Chlorotoluene	BRL	mg/kg dry	0.0092	0.00028	1	*8260B	7/5/12 19:50	VHL	P2G0089
4-Chlorotoluene	BRL	mg/kg dry	0.0092	0.00022	1	*8260B	7/5/12 19:50	VHL	P2G0089
4-Isopropyltoluene	BRL	mg/kg dry	0.014	0.00029	1	*8260B	7/5/12 19:50	VHL	P2G0089
Acetone	0.033	mg/kg dry	0.018	0.0024	1	*8260B	7/5/12 19:50	VHL	P2G0089
Acrolein	BRL	mg/kg dry	0.092	0.0028	1	*8260B	7/5/12 19:50	VHL	P2G0089
Acrylonitrile	BRL	mg/kg dry	0.092	0.0023	1	*8260B	7/5/12 19:50	VHL	P2G0089
Benzene	BRL	mg/kg dry	0.0028	0.00028	1	*8260B	7/5/12 19:50	VHL	P2G0089
Bromobenzene	BRL	mg/kg dry	0.0046	0.00020	1	*8260B	7/5/12 19:50	VHL	P2G0089
Bromochloromethane	BRL	mg/kg dry	0.0046	0.00067	1	*8260B	7/5/12 19:50	VHL	P2G0089
Bromodichloromethane	BRL	mg/kg dry	0.0046	0.00021	1	*8260B	7/5/12 19:50	VHL	P2G0089
Bromoform	BRL	mg/kg dry	0.0046	0.00081	1	*8260B	7/5/12 19:50	VHL	P2G0089
Bromomethane	BRL	mg/kg dry	0.0092	0.0013	1	*8260B	7/5/12 19:50	VHL	P2G0089
Carbon disulfide	BRL	mg/kg dry	0.0092	0.00038	1	*8260B	7/5/12 19:50	VHL	P2G0089
Carbon Tetrachloride	BRL	mg/kg dry	0.0046	0.00025	1	*8260B	7/5/12 19:50	VHL	P2G0089
Chlorobenzene	BRL	mg/kg dry	0.0046	0.00021	1	*8260B	7/5/12 19:50	VHL	P2G0089
Chloroethane	BRL	mg/kg dry	0.0092	0.0035	1	*8260B	7/5/12 19:50	VHL	P2G0089
Chloroform	BRL	mg/kg dry	0.0046	0.00019	1	*8260B	7/5/12 19:50	VHL	P2G0089
Chloromethane	BRL	mg/kg dry	0.0092	0.0023	1	*8260B	7/5/12 19:50	VHL	P2G0089
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0046	0.00037	1	*8260B	7/5/12 19:50	VHL	P2G0089

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Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Solid

Client Sample ID: SS-11
 Prism Sample ID: 2070026-01
 Prism Work Order: 2070026
 Time Collected: 06/29/12 10:45
 Time Submitted: 07/02/12 13:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0046	0.00023	1	*8260B	7/5/12 19:50	VHL	P2G0089
Dibromochloromethane	BRL	mg/kg dry	0.0046	0.00031	1	*8260B	7/5/12 19:50	VHL	P2G0089
Dibromomethane	BRL	mg/kg dry	0.0046	0.00031	1	*8260B	7/5/12 19:50	VHL	P2G0089
Dichlorodifluoromethane	BRL	mg/kg dry	0.0092	0.00049	1	*8260B	7/5/12 19:50	VHL	P2G0089
Ethylbenzene	BRL	mg/kg dry	0.0046	0.00030	1	*8260B	7/5/12 19:50	VHL	P2G0089
Hexachlorobutadiene	BRL	mg/kg dry	0.014	0.00059	1	*8260B	7/5/12 19:50	VHL	P2G0089
Isopropyl Ether	BRL	mg/kg dry	0.0046	0.00020	1	*8260B	7/5/12 19:50	VHL	P2G0089
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0092	0.00023	1	*8260B	7/5/12 19:50	VHL	P2G0089
m,p-Xylenes	BRL	mg/kg dry	0.0092	0.00059	1	*8260B	7/5/12 19:50	VHL	P2G0089
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.046	0.00095	1	*8260B	7/5/12 19:50	VHL	P2G0089
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.018	0.0016	1	*8260B	7/5/12 19:50	VHL	P2G0089
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.0092	0.0012	1	*8260B	7/5/12 19:50	VHL	P2G0089
Methylene Chloride	BRL	mg/kg dry	0.0092	0.00033	1	*8260B	7/5/12 19:50	VHL	P2G0089
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0046	0.00035	1	*8260B	7/5/12 19:50	VHL	P2G0089
Naphthalene	BRL	mg/kg dry	0.0046	0.00034	1	*8260B	7/5/12 19:50	VHL	P2G0089
n-Butylbenzene	BRL	mg/kg dry	0.014	0.00020	1	*8260B	7/5/12 19:50	VHL	P2G0089
n-Propylbenzene	BRL	mg/kg dry	0.0092	0.00026	1	*8260B	7/5/12 19:50	VHL	P2G0089
o-Xylene	BRL	mg/kg dry	0.0046	0.00029	1	*8260B	7/5/12 19:50	VHL	P2G0089
sec-Butylbenzene	BRL	mg/kg dry	0.014	0.00019	1	*8260B	7/5/12 19:50	VHL	P2G0089
Styrene	BRL	mg/kg dry	0.0046	0.00020	1	*8260B	7/5/12 19:50	VHL	P2G0089
tert-Butylbenzene	BRL	mg/kg dry	0.018	0.00024	1	*8260B	7/5/12 19:50	VHL	P2G0089
Tetrachloroethylene	BRL	mg/kg dry	0.0092	0.00032	1	*8260B	7/5/12 19:50	VHL	P2G0089
Toluene	BRL	mg/kg dry	0.0046	0.00027	1	*8260B	7/5/12 19:50	VHL	P2G0089
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0046	0.00053	1	*8260B	7/5/12 19:50	VHL	P2G0089
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0046	0.00022	1	*8260B	7/5/12 19:50	VHL	P2G0089
Trichloroethylene	BRL	mg/kg dry	0.0046	0.00043	1	*8260B	7/5/12 19:50	VHL	P2G0089
Trichlorofluoromethane	BRL	mg/kg dry	0.0046	0.00037	1	*8260B	7/5/12 19:50	VHL	P2G0089
Vinyl acetate	BRL	mg/kg dry	0.0092	0.0013	1	*8260B	7/5/12 19:50	VHL	P2G0089
Vinyl chloride	BRL	mg/kg dry	0.0092	0.00060	1	*8260B	7/5/12 19:50	VHL	P2G0089
Xylenes, total	BRL	mg/kg dry	0.014	0.00086	1	*8260B	7/5/12 19:50	VHL	P2G0089

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	103 %	70-130
Dibromofluoromethane	108 %	84-123
Toluene-d8	117 %	76-129

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	5.9	0.35	100	*MADEP VPH	7/5/12 16:38	ANG	P2G0058
C9-C12 Aliphatics	BRL	mg/kg dry	5.9	0.99	100	*MADEP VPH	7/5/12 16:38	ANG	P2G0058
C9-C10 Aromatics	BRL	mg/kg dry	5.9	0.053	100	*MADEP VPH	7/5/12 16:38	ANG	P2G0058

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	81 %	70-130
2,5-Dibromotoluene (FID)	81 %	70-130

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Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Solid

Client Sample ID: SS-12
 Prism Sample ID: 2070026-02
 Prism Work Order: 2070026
 Time Collected: 06/29/12 10:20
 Time Submitted: 07/02/12 13:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Extractable Petroleum Hydrocarbons by GC/FID

C9-C18 Aliphatics	BRL	mg/kg dry	12	1.0	1	*MADEP EPH	7/11/12 0:03	EAJ	P2G0097
C19-C36 Aliphatics	BRL	mg/kg dry	12	1.1	1	*MADEP EPH	7/11/12 0:03	EAJ	P2G0097
C11-C22 Aromatics	BRL	mg/kg dry	12	2.7	1	*MADEP EPH	7/10/12 23:56	EAJ	P2G0097

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	70 %	40-140
o-Terphenyl	67 %	40-140
2-Fluorobiphenyl	90 %	40-140
2-Bromonaphthalene	86 %	40-140

General Chemistry Parameters

% Solids	83.5	% by Weight	0.100	0.100	1	*SM2540 G	7/3/12 14:00	JAB	P2G0052
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Semivolatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	mg/kg dry	7.9	2.9	20	*8270D	7/10/12 20:30	KC	P2G0076
1,2-Dichlorobenzene	BRL	mg/kg dry	7.9	2.6	20	*8270D	7/10/12 20:30	KC	P2G0076
1,3-Dichlorobenzene	BRL	mg/kg dry	7.9	2.7	20	*8270D	7/10/12 20:30	KC	P2G0076
1,4-Dichlorobenzene	BRL	mg/kg dry	7.9	2.5	20	*8270D	7/10/12 20:30	KC	P2G0076
2,4,5-Trichlorophenol	BRL	mg/kg dry	7.9	2.2	20	*8270D	7/10/12 20:30	KC	P2G0076
2,4,6-Trichlorophenol	BRL	mg/kg dry	7.9	2.6	20	*8270D	7/10/12 20:30	KC	P2G0076
2,4-Dichlorophenol	BRL	mg/kg dry	7.9	2.8	20	*8270D	7/10/12 20:30	KC	P2G0076
2,4-Dimethylphenol	BRL	mg/kg dry	7.9	3.2	20	*8270D	7/10/12 20:30	KC	P2G0076
2,4-Dinitrophenol	BRL	mg/kg dry	7.9	1.2	20	*8270D	7/10/12 20:30	KC	P2G0076
2,4-Dinitrotoluene	BRL	mg/kg dry	7.9	1.3	20	*8270D	7/10/12 20:30	KC	P2G0076
2,6-Dinitrotoluene	BRL	mg/kg dry	7.9	1.2	20	*8270D	7/10/12 20:30	KC	P2G0076
2-Chloronaphthalene	BRL	mg/kg dry	7.9	2.7	20	*8270D	7/10/12 20:30	KC	P2G0076
2-Chlorophenol	BRL	mg/kg dry	7.9	3.0	20	*8270D	7/10/12 20:30	KC	P2G0076
2-Methylnaphthalene	BRL	mg/kg dry	7.9	2.9	20	*8270D	7/10/12 20:30	KC	P2G0076
2-Methylphenol	BRL	mg/kg dry	7.9	2.8	20	*8270D	7/10/12 20:30	KC	P2G0076
2-Nitroaniline	BRL	mg/kg dry	7.9	1.4	20	*8270D	7/10/12 20:30	KC	P2G0076
2-Nitrophenol	BRL	mg/kg dry	7.9	2.9	20	*8270D	7/10/12 20:30	KC	P2G0076
3,3'-Dichlorobenzidine	BRL	mg/kg dry	7.9	1.3	20	*8270D	7/10/12 20:30	KC	P2G0076
3/4-Methylphenol	BRL	mg/kg dry	7.9	2.2	20	*8270D	7/10/12 20:30	KC	P2G0076
3-Nitroaniline	BRL	mg/kg dry	7.9	2.4	20	*8270D	7/10/12 20:30	KC	P2G0076
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	7.9	0.85	20	*8270D	7/10/12 20:30	KC	P2G0076
4-Bromophenyl phenyl ether	BRL	mg/kg dry	7.9	1.8	20	*8270D	7/10/12 20:30	KC	P2G0076
4-Chloro-3-methylphenol	BRL	mg/kg dry	7.9	2.8	20	*8270D	7/10/12 20:30	KC	P2G0076
4-Chloroaniline	BRL	mg/kg dry	7.9	2.7	20	*8270D	7/10/12 20:30	KC	P2G0076
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	7.9	2.3	20	*8270D	7/10/12 20:30	KC	P2G0076
4-Nitroaniline	BRL	mg/kg dry	7.9	2.0	20	*8270D	7/10/12 20:30	KC	P2G0076
4-Nitrophenol	BRL	mg/kg dry	7.9	0.98	20	*8270D	7/10/12 20:30	KC	P2G0076
Acenaphthene	BRL	mg/kg dry	7.9	2.4	20	*8270D	7/10/12 20:30	KC	P2G0076
Acenaphthylene	BRL	mg/kg dry	7.9	2.5	20	*8270D	7/10/12 20:30	KC	P2G0076
Aniline	BRL	mg/kg dry	7.9	2.7	20	*8270D	7/10/12 20:30	KC	P2G0076

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Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Solid

Client Sample ID: SS-12
 Prism Sample ID: 2070026-02
 Prism Work Order: 2070026
 Time Collected: 06/29/12 10:20
 Time Submitted: 07/02/12 13:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anthracene	BRL	mg/kg dry	7.9	1.6	20	*8270D	7/10/12 20:30	KC	P2G0076
Azobenzene	BRL	mg/kg dry	7.9	1.8	20	*8270D	7/10/12 20:30	KC	P2G0076
Benzo(a)anthracene	BRL	mg/kg dry	7.9	1.6	20	*8270D	7/10/12 20:30	KC	P2G0076
Benzo(a)pyrene	BRL	mg/kg dry	7.9	1.5	20	*8270D	7/10/12 20:30	KC	P2G0076
Benzo(b)fluoranthene	BRL	mg/kg dry	7.9	1.1	20	*8270D	7/10/12 20:30	KC	P2G0076
Benzo(g,h,i)perylene	BRL	mg/kg dry	7.9	2.5	20	*8270D	7/10/12 20:30	KC	P2G0076
Benzo(k)fluoranthene	BRL	mg/kg dry	7.9	2.3	20	*8270D	7/10/12 20:30	KC	P2G0076
Benzoic Acid	BRL	mg/kg dry	7.9	1.0	20	*8270D	7/10/12 20:30	KC	P2G0076
Benzyl alcohol	BRL	mg/kg dry	7.9	2.6	20	*8270D	7/10/12 20:30	KC	P2G0076
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	7.9	4.0	20	*8270D	7/10/12 20:30	KC	P2G0076
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	7.9	2.9	20	*8270D	7/10/12 20:30	KC	P2G0076
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	7.9	3.1	20	*8270D	7/10/12 20:30	KC	P2G0076
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	7.9	1.5	20	*8270D	7/10/12 20:30	KC	P2G0076
Butyl benzyl phthalate	BRL	mg/kg dry	7.9	1.7	20	*8270D	7/10/12 20:30	KC	P2G0076
Chrysene	BRL	mg/kg dry	7.9	1.8	20	*8270D	7/10/12 20:30	KC	P2G0076
Dibenzo(a,h)anthracene	BRL	mg/kg dry	7.9	2.6	20	*8270D	7/10/12 20:30	KC	P2G0076
Dibenzofuran	BRL	mg/kg dry	7.9	2.2	20	*8270D	7/10/12 20:30	KC	P2G0076
Diethyl phthalate	BRL	mg/kg dry	7.9	1.4	20	*8270D	7/10/12 20:30	KC	P2G0076
Dimethyl phthalate	BRL	mg/kg dry	7.9	1.5	20	*8270D	7/10/12 20:30	KC	P2G0076
Di-n-butyl phthalate	BRL	mg/kg dry	7.9	1.9	20	*8270D	7/10/12 20:30	KC	P2G0076
Di-n-octyl phthalate	BRL	mg/kg dry	7.9	1.7	20	*8270D	7/10/12 20:30	KC	P2G0076
Fluoranthene	BRL	mg/kg dry	7.9	1.7	20	*8270D	7/10/12 20:30	KC	P2G0076
Fluorene	BRL	mg/kg dry	7.9	1.8	20	*8270D	7/10/12 20:30	KC	P2G0076
Hexachlorobenzene	BRL	mg/kg dry	7.9	1.3	20	*8270D	7/10/12 20:30	KC	P2G0076
Hexachlorobutadiene	BRL	mg/kg dry	7.9	3.0	20	*8270D	7/10/12 20:30	KC	P2G0076
Hexachlorocyclopentadiene	BRL	mg/kg dry	7.9	2.4	20	*8270D	7/10/12 20:30	KC	P2G0076
Hexachloroethane	BRL	mg/kg dry	7.9	2.6	20	*8270D	7/10/12 20:30	KC	P2G0076
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	7.9	2.1	20	*8270D	7/10/12 20:30	KC	P2G0076
Isophorone	BRL	mg/kg dry	7.9	2.9	20	*8270D	7/10/12 20:30	KC	P2G0076
Naphthalene	BRL	mg/kg dry	7.9	3.1	20	*8270D	7/10/12 20:30	KC	P2G0076
Nitrobenzene	BRL	mg/kg dry	7.9	2.7	20	*8270D	7/10/12 20:30	KC	P2G0076
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	7.9	2.7	20	*8270D	7/10/12 20:30	KC	P2G0076
N-Nitrosodiphenylamine	BRL	mg/kg dry	7.9	1.6	20	*8270D	7/10/12 20:30	KC	P2G0076
Pentachlorophenol	BRL	mg/kg dry	7.9	0.65	20	*8270D	7/10/12 20:30	KC	P2G0076
Phenanthrene	BRL	mg/kg dry	7.9	1.4	20	*8270D	7/10/12 20:30	KC	P2G0076
Phenol	BRL	mg/kg dry	7.9	2.9	20	*8270D	7/10/12 20:30	KC	P2G0076
Pyrene	BRL	mg/kg dry	7.9	2.2	20	*8270D	7/10/12 20:30	KC	P2G0076

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	83 %	37-131
2-Fluorobiphenyl	148 %	47-130 SR
2-Fluorophenol	132 %	44-117 SR
Nitrobenzene-d5	115 %	45-121
Phenol-d5	125 %	37-127

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Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Solid

Client Sample ID: SS-12
 Prism Sample ID: 2070026-02
 Prism Work Order: 2070026
 Time Collected: 06/29/12 10:20
 Time Submitted: 07/02/12 13:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Terphenyl-d14		122 %		38-135		
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0043	0.00026	1	*8260B	7/5/12 20:23	VHL	P2G0089
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0043	0.00014	1	*8260B	7/5/12 20:23	VHL	P2G0089
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0043	0.00071	1	*8260B	7/5/12 20:23	VHL	P2G0089
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0043	0.00036	1	*8260B	7/5/12 20:23	VHL	P2G0089
1,1-Dichloroethane	BRL	mg/kg dry	0.0043	0.00036	1	*8260B	7/5/12 20:23	VHL	P2G0089
1,1-Dichloroethylene	BRL	mg/kg dry	0.0043	0.00026	1	*8260B	7/5/12 20:23	VHL	P2G0089
1,1-Dichloropropylene	BRL	mg/kg dry	0.0043	0.00045	1	*8260B	7/5/12 20:23	VHL	P2G0089
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0085	0.00032	1	*8260B	7/5/12 20:23	VHL	P2G0089
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0043	0.00064	1	*8260B	7/5/12 20:23	VHL	P2G0089
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0085	0.00025	1	*8260B	7/5/12 20:23	VHL	P2G0089
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0085	0.00084	1	*8260B	7/5/12 20:23	VHL	P2G0089
1,2-Dibromo-3-chloropropane	BRL	mg/kg dry	0.0043	0.0013	1	*8260B	7/5/12 20:23	VHL	P2G0089
1,2-Dibromoethane	BRL	mg/kg dry	0.0043	0.00049	1	*8260B	7/5/12 20:23	VHL	P2G0089
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0085	0.00019	1	*8260B	7/5/12 20:23	VHL	P2G0089
1,2-Dichloroethane	BRL	mg/kg dry	0.0043	0.00069	1	*8260B	7/5/12 20:23	VHL	P2G0089
1,2-Dichloropropane	BRL	mg/kg dry	0.0043	0.00027	1	*8260B	7/5/12 20:23	VHL	P2G0089
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0085	0.00020	1	*8260B	7/5/12 20:23	VHL	P2G0089
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0085	0.000059	1	*8260B	7/5/12 20:23	VHL	P2G0089
1,3-Dichloropropane	BRL	mg/kg dry	0.0043	0.00046	1	*8260B	7/5/12 20:23	VHL	P2G0089
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0085	0.00031	1	*8260B	7/5/12 20:23	VHL	P2G0089
2,2-Dichloropropane	BRL	mg/kg dry	0.0043	0.00027	1	*8260B	7/5/12 20:23	VHL	P2G0089
2-Chloroethyl Vinyl Ether	BRL	mg/kg dry	0.0085	0.0024	1	*8260B	7/5/12 20:23	VHL	P2G0089
2-Chlorotoluene	BRL	mg/kg dry	0.0085	0.00026	1	*8260B	7/5/12 20:23	VHL	P2G0089
4-Chlorotoluene	BRL	mg/kg dry	0.0085	0.00020	1	*8260B	7/5/12 20:23	VHL	P2G0089
4-Isopropyltoluene	BRL	mg/kg dry	0.013	0.00027	1	*8260B	7/5/12 20:23	VHL	P2G0089
Acetone	BRL	mg/kg dry	0.017	0.0023	1	*8260B	7/5/12 20:23	VHL	P2G0089
Acrolein	BRL	mg/kg dry	0.085	0.0026	1	*8260B	7/5/12 20:23	VHL	P2G0089
Acrylonitrile	BRL	mg/kg dry	0.085	0.0021	1	*8260B	7/5/12 20:23	VHL	P2G0089
Benzene	BRL	mg/kg dry	0.0026	0.00026	1	*8260B	7/5/12 20:23	VHL	P2G0089
Bromobenzene	BRL	mg/kg dry	0.0043	0.00018	1	*8260B	7/5/12 20:23	VHL	P2G0089
Bromochloromethane	BRL	mg/kg dry	0.0043	0.00062	1	*8260B	7/5/12 20:23	VHL	P2G0089
Bromodichloromethane	BRL	mg/kg dry	0.0043	0.00020	1	*8260B	7/5/12 20:23	VHL	P2G0089
Bromoform	BRL	mg/kg dry	0.0043	0.00075	1	*8260B	7/5/12 20:23	VHL	P2G0089
Bromomethane	BRL	mg/kg dry	0.0085	0.0012	1	*8260B	7/5/12 20:23	VHL	P2G0089
Carbon disulfide	BRL	mg/kg dry	0.0085	0.00035	1	*8260B	7/5/12 20:23	VHL	P2G0089
Carbon Tetrachloride	BRL	mg/kg dry	0.0043	0.00023	1	*8260B	7/5/12 20:23	VHL	P2G0089
Chlorobenzene	BRL	mg/kg dry	0.0043	0.00020	1	*8260B	7/5/12 20:23	VHL	P2G0089
Chloroethane	BRL	mg/kg dry	0.0085	0.0032	1	*8260B	7/5/12 20:23	VHL	P2G0089
Chloroform	BRL	mg/kg dry	0.0043	0.00018	1	*8260B	7/5/12 20:23	VHL	P2G0089
Chloromethane	BRL	mg/kg dry	0.0085	0.0022	1	*8260B	7/5/12 20:23	VHL	P2G0089
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0043	0.00034	1	*8260B	7/5/12 20:23	VHL	P2G0089

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Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Solid

Client Sample ID: SS-12
 Prism Sample ID: 2070026-02
 Prism Work Order: 2070026
 Time Collected: 06/29/12 10:20
 Time Submitted: 07/02/12 13:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0043	0.00021	1	*8260B	7/5/12 20:23	VHL	P2G0089
Dibromochloromethane	BRL	mg/kg dry	0.0043	0.00029	1	*8260B	7/5/12 20:23	VHL	P2G0089
Dibromomethane	BRL	mg/kg dry	0.0043	0.00029	1	*8260B	7/5/12 20:23	VHL	P2G0089
Dichlorodifluoromethane	BRL	mg/kg dry	0.0085	0.00046	1	*8260B	7/5/12 20:23	VHL	P2G0089
Ethylbenzene	BRL	mg/kg dry	0.0043	0.00027	1	*8260B	7/5/12 20:23	VHL	P2G0089
Hexachlorobutadiene	BRL	mg/kg dry	0.013	0.00055	1	*8260B	7/5/12 20:23	VHL	P2G0089
Isopropyl Ether	BRL	mg/kg dry	0.0043	0.00018	1	*8260B	7/5/12 20:23	VHL	P2G0089
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0085	0.00021	1	*8260B	7/5/12 20:23	VHL	P2G0089
m,p-Xylenes	BRL	mg/kg dry	0.0085	0.00055	1	*8260B	7/5/12 20:23	VHL	P2G0089
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.043	0.00088	1	*8260B	7/5/12 20:23	VHL	P2G0089
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.017	0.0015	1	*8260B	7/5/12 20:23	VHL	P2G0089
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.0085	0.0011	1	*8260B	7/5/12 20:23	VHL	P2G0089
Methylene Chloride	BRL	mg/kg dry	0.0085	0.00031	1	*8260B	7/5/12 20:23	VHL	P2G0089
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0043	0.00033	1	*8260B	7/5/12 20:23	VHL	P2G0089
Naphthalene	BRL	mg/kg dry	0.0043	0.00031	1	*8260B	7/5/12 20:23	VHL	P2G0089
n-Butylbenzene	BRL	mg/kg dry	0.013	0.00019	1	*8260B	7/5/12 20:23	VHL	P2G0089
n-Propylbenzene	BRL	mg/kg dry	0.0085	0.00024	1	*8260B	7/5/12 20:23	VHL	P2G0089
o-Xylene	BRL	mg/kg dry	0.0043	0.00027	1	*8260B	7/5/12 20:23	VHL	P2G0089
sec-Butylbenzene	BRL	mg/kg dry	0.013	0.00017	1	*8260B	7/5/12 20:23	VHL	P2G0089
Styrene	BRL	mg/kg dry	0.0043	0.00019	1	*8260B	7/5/12 20:23	VHL	P2G0089
tert-Butylbenzene	BRL	mg/kg dry	0.017	0.00022	1	*8260B	7/5/12 20:23	VHL	P2G0089
Tetrachloroethylene	BRL	mg/kg dry	0.0085	0.00030	1	*8260B	7/5/12 20:23	VHL	P2G0089
Toluene	BRL	mg/kg dry	0.0043	0.00025	1	*8260B	7/5/12 20:23	VHL	P2G0089
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0043	0.00049	1	*8260B	7/5/12 20:23	VHL	P2G0089
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0043	0.00021	1	*8260B	7/5/12 20:23	VHL	P2G0089
Trichloroethylene	BRL	mg/kg dry	0.0043	0.00039	1	*8260B	7/5/12 20:23	VHL	P2G0089
Trichlorofluoromethane	BRL	mg/kg dry	0.0043	0.00035	1	*8260B	7/5/12 20:23	VHL	P2G0089
Vinyl acetate	BRL	mg/kg dry	0.0085	0.0012	1	*8260B	7/5/12 20:23	VHL	P2G0089
Vinyl chloride	BRL	mg/kg dry	0.0085	0.00055	1	*8260B	7/5/12 20:23	VHL	P2G0089
Xylenes, total	BRL	mg/kg dry	0.013	0.00080	1	*8260B	7/5/12 20:23	VHL	P2G0089

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	103 %	70-130
Dibromofluoromethane	108 %	84-123
Toluene-d8	117 %	76-129

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	6.0	0.35	100	*MADEP VPH	7/5/12 17:10	ANG	P2G0058
C9-C12 Aliphatics	BRL	mg/kg dry	6.0	1.0	100	*MADEP VPH	7/5/12 17:10	ANG	P2G0058
C9-C10 Aromatics	BRL	mg/kg dry	6.0	0.054	100	*MADEP VPH	7/5/12 17:10	ANG	P2G0058

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	89 %	70-130
2,5-Dibromotoluene (FID)	89 %	70-130

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Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Solid

Client Sample ID: SS-DUP3
 Prism Sample ID: 2070026-03
 Prism Work Order: 2070026
 Time Collected: 06/29/12 00:00
 Time Submitted: 07/02/12 13:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Extractable Petroleum Hydrocarbons by GC/FID

C9-C18 Aliphatics	BRL	mg/kg dry	12	1.0	1	*MADEP EPH	7/11/12 0:41	EAJ	P2G0097
C19-C36 Aliphatics	BRL	mg/kg dry	12	1.1	1	*MADEP EPH	7/11/12 0:41	EAJ	P2G0097
C11-C22 Aromatics	BRL	mg/kg dry	12	2.7	1	*MADEP EPH	7/11/12 0:33	EAJ	P2G0097

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	71 %	40-140
o-Terphenyl	76 %	40-140
2-Fluorobiphenyl	89 %	40-140
2-Bromonaphthalene	81 %	40-140

General Chemistry Parameters

% Solids	83.6	% by Weight	0.100	0.100	1	*SM2540 G	7/3/12 14:00	JAB	P2G0052
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Semivolatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	mg/kg dry	7.9	2.9	20	*8270D	7/10/12 21:09	KC	P2G0076
1,2-Dichlorobenzene	BRL	mg/kg dry	7.9	2.6	20	*8270D	7/10/12 21:09	KC	P2G0076
1,3-Dichlorobenzene	BRL	mg/kg dry	7.9	2.6	20	*8270D	7/10/12 21:09	KC	P2G0076
1,4-Dichlorobenzene	BRL	mg/kg dry	7.9	2.5	20	*8270D	7/10/12 21:09	KC	P2G0076
2,4,5-Trichlorophenol	BRL	mg/kg dry	7.9	2.1	20	*8270D	7/10/12 21:09	KC	P2G0076
2,4,6-Trichlorophenol	BRL	mg/kg dry	7.9	2.6	20	*8270D	7/10/12 21:09	KC	P2G0076
2,4-Dichlorophenol	BRL	mg/kg dry	7.9	2.8	20	*8270D	7/10/12 21:09	KC	P2G0076
2,4-Dimethylphenol	BRL	mg/kg dry	7.9	3.2	20	*8270D	7/10/12 21:09	KC	P2G0076
2,4-Dinitrophenol	BRL	mg/kg dry	7.9	1.2	20	*8270D	7/10/12 21:09	KC	P2G0076
2,4-Dinitrotoluene	BRL	mg/kg dry	7.9	1.3	20	*8270D	7/10/12 21:09	KC	P2G0076
2,6-Dinitrotoluene	BRL	mg/kg dry	7.9	1.2	20	*8270D	7/10/12 21:09	KC	P2G0076
2-Chloronaphthalene	BRL	mg/kg dry	7.9	2.7	20	*8270D	7/10/12 21:09	KC	P2G0076
2-Chlorophenol	BRL	mg/kg dry	7.9	3.0	20	*8270D	7/10/12 21:09	KC	P2G0076
2-Methylnaphthalene	BRL	mg/kg dry	7.9	2.9	20	*8270D	7/10/12 21:09	KC	P2G0076
2-Methylphenol	BRL	mg/kg dry	7.9	2.8	20	*8270D	7/10/12 21:09	KC	P2G0076
2-Nitroaniline	BRL	mg/kg dry	7.9	1.4	20	*8270D	7/10/12 21:09	KC	P2G0076
2-Nitrophenol	BRL	mg/kg dry	7.9	2.9	20	*8270D	7/10/12 21:09	KC	P2G0076
3,3'-Dichlorobenzidine	BRL	mg/kg dry	7.9	1.3	20	*8270D	7/10/12 21:09	KC	P2G0076
3/4-Methylphenol	BRL	mg/kg dry	7.9	2.2	20	*8270D	7/10/12 21:09	KC	P2G0076
3-Nitroaniline	BRL	mg/kg dry	7.9	2.3	20	*8270D	7/10/12 21:09	KC	P2G0076
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	7.9	0.85	20	*8270D	7/10/12 21:09	KC	P2G0076
4-Bromophenyl phenyl ether	BRL	mg/kg dry	7.9	1.8	20	*8270D	7/10/12 21:09	KC	P2G0076
4-Chloro-3-methylphenol	BRL	mg/kg dry	7.9	2.8	20	*8270D	7/10/12 21:09	KC	P2G0076
4-Chloroaniline	BRL	mg/kg dry	7.9	2.7	20	*8270D	7/10/12 21:09	KC	P2G0076
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	7.9	2.3	20	*8270D	7/10/12 21:09	KC	P2G0076
4-Nitroaniline	BRL	mg/kg dry	7.9	1.9	20	*8270D	7/10/12 21:09	KC	P2G0076
4-Nitrophenol	BRL	mg/kg dry	7.9	0.97	20	*8270D	7/10/12 21:09	KC	P2G0076
Acenaphthene	BRL	mg/kg dry	7.9	2.4	20	*8270D	7/10/12 21:09	KC	P2G0076
Acenaphthylene	BRL	mg/kg dry	7.9	2.5	20	*8270D	7/10/12 21:09	KC	P2G0076
Aniline	BRL	mg/kg dry	7.9	2.7	20	*8270D	7/10/12 21:09	KC	P2G0076

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Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Solid

Client Sample ID: SS-DUP3
Prism Sample ID: 2070026-03
Prism Work Order: 2070026
Time Collected: 06/29/12 00:00
Time Submitted: 07/02/12 13:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anthracene	BRL	mg/kg dry	7.9	1.5	20	*8270D	7/10/12 21:09	KC	P2G0076
Azobenzene	BRL	mg/kg dry	7.9	1.8	20	*8270D	7/10/12 21:09	KC	P2G0076
Benzo(a)anthracene	BRL	mg/kg dry	7.9	1.6	20	*8270D	7/10/12 21:09	KC	P2G0076
Benzo(a)pyrene	BRL	mg/kg dry	7.9	1.5	20	*8270D	7/10/12 21:09	KC	P2G0076
Benzo(b)fluoranthene	BRL	mg/kg dry	7.9	1.1	20	*8270D	7/10/12 21:09	KC	P2G0076
Benzo(g,h,i)perylene	BRL	mg/kg dry	7.9	2.5	20	*8270D	7/10/12 21:09	KC	P2G0076
Benzo(k)fluoranthene	BRL	mg/kg dry	7.9	2.3	20	*8270D	7/10/12 21:09	KC	P2G0076
Benzoic Acid	BRL	mg/kg dry	7.9	1.0	20	*8270D	7/10/12 21:09	KC	P2G0076
Benzyl alcohol	BRL	mg/kg dry	7.9	2.6	20	*8270D	7/10/12 21:09	KC	P2G0076
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	7.9	4.0	20	*8270D	7/10/12 21:09	KC	P2G0076
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	7.9	2.9	20	*8270D	7/10/12 21:09	KC	P2G0076
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	7.9	3.1	20	*8270D	7/10/12 21:09	KC	P2G0076
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	7.9	1.5	20	*8270D	7/10/12 21:09	KC	P2G0076
Butyl benzyl phthalate	BRL	mg/kg dry	7.9	1.7	20	*8270D	7/10/12 21:09	KC	P2G0076
Chrysene	BRL	mg/kg dry	7.9	1.8	20	*8270D	7/10/12 21:09	KC	P2G0076
Dibenzo(a,h)anthracene	BRL	mg/kg dry	7.9	2.5	20	*8270D	7/10/12 21:09	KC	P2G0076
Dibenzofuran	BRL	mg/kg dry	7.9	2.2	20	*8270D	7/10/12 21:09	KC	P2G0076
Diethyl phthalate	BRL	mg/kg dry	7.9	1.4	20	*8270D	7/10/12 21:09	KC	P2G0076
Dimethyl phthalate	BRL	mg/kg dry	7.9	1.5	20	*8270D	7/10/12 21:09	KC	P2G0076
Di-n-butyl phthalate	BRL	mg/kg dry	7.9	1.9	20	*8270D	7/10/12 21:09	KC	P2G0076
Di-n-octyl phthalate	BRL	mg/kg dry	7.9	1.7	20	*8270D	7/10/12 21:09	KC	P2G0076
Fluoranthene	BRL	mg/kg dry	7.9	1.7	20	*8270D	7/10/12 21:09	KC	P2G0076
Fluorene	BRL	mg/kg dry	7.9	1.8	20	*8270D	7/10/12 21:09	KC	P2G0076
Hexachlorobenzene	BRL	mg/kg dry	7.9	1.3	20	*8270D	7/10/12 21:09	KC	P2G0076
Hexachlorobutadiene	BRL	mg/kg dry	7.9	3.0	20	*8270D	7/10/12 21:09	KC	P2G0076
Hexachlorocyclopentadiene	BRL	mg/kg dry	7.9	2.4	20	*8270D	7/10/12 21:09	KC	P2G0076
Hexachloroethane	BRL	mg/kg dry	7.9	2.6	20	*8270D	7/10/12 21:09	KC	P2G0076
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	7.9	2.1	20	*8270D	7/10/12 21:09	KC	P2G0076
Isophorone	BRL	mg/kg dry	7.9	2.9	20	*8270D	7/10/12 21:09	KC	P2G0076
Naphthalene	BRL	mg/kg dry	7.9	3.1	20	*8270D	7/10/12 21:09	KC	P2G0076
Nitrobenzene	BRL	mg/kg dry	7.9	2.6	20	*8270D	7/10/12 21:09	KC	P2G0076
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	7.9	2.7	20	*8270D	7/10/12 21:09	KC	P2G0076
N-Nitrosodiphenylamine	BRL	mg/kg dry	7.9	1.6	20	*8270D	7/10/12 21:09	KC	P2G0076
Pentachlorophenol	BRL	mg/kg dry	7.9	0.65	20	*8270D	7/10/12 21:09	KC	P2G0076
Phenanthrene	BRL	mg/kg dry	7.9	1.4	20	*8270D	7/10/12 21:09	KC	P2G0076
Phenol	BRL	mg/kg dry	7.9	2.9	20	*8270D	7/10/12 21:09	KC	P2G0076
Pyrene	BRL	mg/kg dry	7.9	2.2	20	*8270D	7/10/12 21:09	KC	P2G0076

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	82 %	37-131
2-Fluorobiphenyl	126 %	47-130
2-Fluorophenol	94 %	44-117
Nitrobenzene-d5	91 %	45-121
Phenol-d5	107 %	37-127

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Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Solid

Client Sample ID: SS-DUP3
 Prism Sample ID: 2070026-03
 Prism Work Order: 2070026
 Time Collected: 06/29/12 00:00
 Time Submitted: 07/02/12 13:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Terphenyl-d14		101 %		38-135		
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0045	0.00027	1	*8260B	7/5/12 20:56	VHL	P2G0089
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0045	0.00015	1	*8260B	7/5/12 20:56	VHL	P2G0089
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0045	0.00074	1	*8260B	7/5/12 20:56	VHL	P2G0089
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0045	0.00038	1	*8260B	7/5/12 20:56	VHL	P2G0089
1,1-Dichloroethane	BRL	mg/kg dry	0.0045	0.00038	1	*8260B	7/5/12 20:56	VHL	P2G0089
1,1-Dichloroethylene	BRL	mg/kg dry	0.0045	0.00027	1	*8260B	7/5/12 20:56	VHL	P2G0089
1,1-Dichloropropylene	BRL	mg/kg dry	0.0045	0.00047	1	*8260B	7/5/12 20:56	VHL	P2G0089
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0090	0.00033	1	*8260B	7/5/12 20:56	VHL	P2G0089
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0045	0.00068	1	*8260B	7/5/12 20:56	VHL	P2G0089
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0090	0.00026	1	*8260B	7/5/12 20:56	VHL	P2G0089
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0090	0.00088	1	*8260B	7/5/12 20:56	VHL	P2G0089
1,2-Dibromo-3-chloropropane	BRL	mg/kg dry	0.0045	0.0014	1	*8260B	7/5/12 20:56	VHL	P2G0089
1,2-Dibromoethane	BRL	mg/kg dry	0.0045	0.00052	1	*8260B	7/5/12 20:56	VHL	P2G0089
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0090	0.00020	1	*8260B	7/5/12 20:56	VHL	P2G0089
1,2-Dichloroethane	BRL	mg/kg dry	0.0045	0.00073	1	*8260B	7/5/12 20:56	VHL	P2G0089
1,2-Dichloropropane	BRL	mg/kg dry	0.0045	0.00029	1	*8260B	7/5/12 20:56	VHL	P2G0089
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0090	0.00021	1	*8260B	7/5/12 20:56	VHL	P2G0089
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0090	0.000062	1	*8260B	7/5/12 20:56	VHL	P2G0089
1,3-Dichloropropane	BRL	mg/kg dry	0.0045	0.00049	1	*8260B	7/5/12 20:56	VHL	P2G0089
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0090	0.00033	1	*8260B	7/5/12 20:56	VHL	P2G0089
2,2-Dichloropropane	BRL	mg/kg dry	0.0045	0.00028	1	*8260B	7/5/12 20:56	VHL	P2G0089
2-Chloroethyl Vinyl Ether	BRL	mg/kg dry	0.0090	0.0025	1	*8260B	7/5/12 20:56	VHL	P2G0089
2-Chlorotoluene	BRL	mg/kg dry	0.0090	0.00028	1	*8260B	7/5/12 20:56	VHL	P2G0089
4-Chlorotoluene	BRL	mg/kg dry	0.0090	0.00021	1	*8260B	7/5/12 20:56	VHL	P2G0089
4-Isopropyltoluene	BRL	mg/kg dry	0.013	0.00029	1	*8260B	7/5/12 20:56	VHL	P2G0089
Acetone	0.026	mg/kg dry	0.018	0.0024	1	*8260B	7/5/12 20:56	VHL	P2G0089
Acrolein	BRL	mg/kg dry	0.090	0.0027	1	*8260B	7/5/12 20:56	VHL	P2G0089
Acrylonitrile	BRL	mg/kg dry	0.090	0.0022	1	*8260B	7/5/12 20:56	VHL	P2G0089
Benzene	BRL	mg/kg dry	0.0027	0.00027	1	*8260B	7/5/12 20:56	VHL	P2G0089
Bromobenzene	BRL	mg/kg dry	0.0045	0.00019	1	*8260B	7/5/12 20:56	VHL	P2G0089
Bromochloromethane	BRL	mg/kg dry	0.0045	0.00065	1	*8260B	7/5/12 20:56	VHL	P2G0089
Bromodichloromethane	BRL	mg/kg dry	0.0045	0.00021	1	*8260B	7/5/12 20:56	VHL	P2G0089
Bromoform	BRL	mg/kg dry	0.0045	0.00080	1	*8260B	7/5/12 20:56	VHL	P2G0089
Bromomethane	BRL	mg/kg dry	0.0090	0.0013	1	*8260B	7/5/12 20:56	VHL	P2G0089
Carbon disulfide	BRL	mg/kg dry	0.0090	0.00037	1	*8260B	7/5/12 20:56	VHL	P2G0089
Carbon Tetrachloride	BRL	mg/kg dry	0.0045	0.00025	1	*8260B	7/5/12 20:56	VHL	P2G0089
Chlorobenzene	BRL	mg/kg dry	0.0045	0.00021	1	*8260B	7/5/12 20:56	VHL	P2G0089
Chloroethane	BRL	mg/kg dry	0.0090	0.0034	1	*8260B	7/5/12 20:56	VHL	P2G0089
Chloroform	BRL	mg/kg dry	0.0045	0.00019	1	*8260B	7/5/12 20:56	VHL	P2G0089
Chloromethane	BRL	mg/kg dry	0.0090	0.0023	1	*8260B	7/5/12 20:56	VHL	P2G0089
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0045	0.00036	1	*8260B	7/5/12 20:56	VHL	P2G0089

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Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Sample Matrix: Solid

Client Sample ID: SS-DUP3
 Prism Sample ID: 2070026-03
 Prism Work Order: 2070026
 Time Collected: 06/29/12 00:00
 Time Submitted: 07/02/12 13:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0045	0.00022	1	*8260B	7/5/12 20:56	VHL	P2G0089
Dibromochloromethane	BRL	mg/kg dry	0.0045	0.00031	1	*8260B	7/5/12 20:56	VHL	P2G0089
Dibromomethane	BRL	mg/kg dry	0.0045	0.00030	1	*8260B	7/5/12 20:56	VHL	P2G0089
Dichlorodifluoromethane	BRL	mg/kg dry	0.0090	0.00048	1	*8260B	7/5/12 20:56	VHL	P2G0089
Ethylbenzene	BRL	mg/kg dry	0.0045	0.00029	1	*8260B	7/5/12 20:56	VHL	P2G0089
Hexachlorobutadiene	BRL	mg/kg dry	0.013	0.00058	1	*8260B	7/5/12 20:56	VHL	P2G0089
Isopropyl Ether	BRL	mg/kg dry	0.0045	0.00019	1	*8260B	7/5/12 20:56	VHL	P2G0089
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0090	0.00022	1	*8260B	7/5/12 20:56	VHL	P2G0089
m,p-Xylenes	BRL	mg/kg dry	0.0090	0.00058	1	*8260B	7/5/12 20:56	VHL	P2G0089
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.045	0.00093	1	*8260B	7/5/12 20:56	VHL	P2G0089
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.018	0.0016	1	*8260B	7/5/12 20:56	VHL	P2G0089
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.0090	0.0012	1	*8260B	7/5/12 20:56	VHL	P2G0089
Methylene Chloride	BRL	mg/kg dry	0.0090	0.00033	1	*8260B	7/5/12 20:56	VHL	P2G0089
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0045	0.00035	1	*8260B	7/5/12 20:56	VHL	P2G0089
Naphthalene	BRL	mg/kg dry	0.0045	0.00033	1	*8260B	7/5/12 20:56	VHL	P2G0089
n-Butylbenzene	BRL	mg/kg dry	0.013	0.00020	1	*8260B	7/5/12 20:56	VHL	P2G0089
n-Propylbenzene	BRL	mg/kg dry	0.0090	0.00026	1	*8260B	7/5/12 20:56	VHL	P2G0089
o-Xylene	BRL	mg/kg dry	0.0045	0.00029	1	*8260B	7/5/12 20:56	VHL	P2G0089
sec-Butylbenzene	BRL	mg/kg dry	0.013	0.00018	1	*8260B	7/5/12 20:56	VHL	P2G0089
Styrene	BRL	mg/kg dry	0.0045	0.00020	1	*8260B	7/5/12 20:56	VHL	P2G0089
tert-Butylbenzene	BRL	mg/kg dry	0.018	0.00023	1	*8260B	7/5/12 20:56	VHL	P2G0089
Tetrachloroethylene	BRL	mg/kg dry	0.0090	0.00031	1	*8260B	7/5/12 20:56	VHL	P2G0089
Toluene	BRL	mg/kg dry	0.0045	0.00027	1	*8260B	7/5/12 20:56	VHL	P2G0089
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0045	0.00052	1	*8260B	7/5/12 20:56	VHL	P2G0089
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0045	0.00022	1	*8260B	7/5/12 20:56	VHL	P2G0089
Trichloroethylene	BRL	mg/kg dry	0.0045	0.00042	1	*8260B	7/5/12 20:56	VHL	P2G0089
Trichlorofluoromethane	BRL	mg/kg dry	0.0045	0.00037	1	*8260B	7/5/12 20:56	VHL	P2G0089
Vinyl acetate	BRL	mg/kg dry	0.0090	0.0013	1	*8260B	7/5/12 20:56	VHL	P2G0089
Vinyl chloride	BRL	mg/kg dry	0.0090	0.00058	1	*8260B	7/5/12 20:56	VHL	P2G0089
Xylenes, total	BRL	mg/kg dry	0.013	0.00084	1	*8260B	7/5/12 20:56	VHL	P2G0089

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	99 %	70-130
Dibromofluoromethane	104 %	84-123
Toluene-d8	113 %	76-129

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	4.6	0.27	100	*MADEP VPH	7/5/12 17:41	ANG	P2G0058
C9-C12 Aliphatics	BRL	mg/kg dry	4.6	0.77	100	*MADEP VPH	7/5/12 17:41	ANG	P2G0058
C9-C10 Aromatics	BRL	mg/kg dry	4.6	0.041	100	*MADEP VPH	7/5/12 17:41	ANG	P2G0058

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	108 %	70-130
2,5-Dibromotoluene (FID)	108 %	70-130

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Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2070026
Time Submitted: 7/2/2012 1:50:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2G0089 - 5035										
Blank (P2G0089-BLK1)										
Prepared & Analyzed: 07/05/12										
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.010	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.010	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.010	mg/kg wet							
1,2-Dibromo-3-chloropropane	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.010	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.010	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.010	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.010	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chloroethyl Vinyl Ether	BRL	0.010	mg/kg wet							
2-Chlorotoluene	BRL	0.010	mg/kg wet							
4-Chlorotoluene	BRL	0.010	mg/kg wet							
4-Isopropyltoluene	BRL	0.015	mg/kg wet							
Acetone	BRL	0.020	mg/kg wet							
Acrolein	BRL	0.10	mg/kg wet							
Acrylonitrile	BRL	0.10	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon disulfide	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.010	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dibromomethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.010	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							

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Project: 725 S. Elm St.

Prism Work Order: 2070026
 Time Submitted: 7/2/2012 1:50:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2G0089 - 5035										
Blank (P2G0089-BLK1)										
Prepared & Analyzed: 07/05/12										
Hexachlorobutadiene	BRL	0.015	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.010	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.020	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.010	mg/kg wet							
Methylene Chloride	BRL	0.010	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.0050	mg/kg wet							
Naphthalene	BRL	0.0050	mg/kg wet							
n-Butylbenzene	BRL	0.015	mg/kg wet							
n-Propylbenzene	BRL	0.010	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.015	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Butylbenzene	BRL	0.020	mg/kg wet							
Tetrachloroethylene	BRL	0.010	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.010	mg/kg wet							
Vinyl chloride	BRL	0.010	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	0.0527		mg/kg wet	0.05000		105	70-130			
Surrogate: Dibromofluoromethane	0.0519		mg/kg wet	0.05000		104	84-123			
Surrogate: Toluene-d8	0.0587		mg/kg wet	0.05000		117	76-129			

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Project: 725 S. Elm St.

Prism Work Order: 2070026
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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2G0089 - 5035										
LCS (P2G0089-BS1)										
					Prepared & Analyzed: 07/05/12					
1,1-Dichloroethylene	0.0378	0.0050	mg/kg wet	0.05000		76	67-149			
Benzene	0.0383	0.0030	mg/kg wet	0.05000		77	74-127			
Chlorobenzene	0.0494	0.0050	mg/kg wet	0.05000		99	74-118			
Toluene	0.0392	0.0050	mg/kg wet	0.05000		78	71-129			
Trichloroethylene	0.0390	0.0050	mg/kg wet	0.05000		78	75-133			
Surrogate: 4-Bromofluorobenzene	0.0509		mg/kg wet	0.05000		102	70-130			
Surrogate: Dibromofluoromethane	0.0509		mg/kg wet	0.05000		102	84-123			
Surrogate: Toluene-d8	0.0582		mg/kg wet	0.05000		116	76-129			
LCS Dup (P2G0089-BSD1)										
					Prepared & Analyzed: 07/05/12					
1,1-Dichloroethylene	0.0420	0.0050	mg/kg wet	0.05000		84	67-149	11	200	
Benzene	0.0404	0.0030	mg/kg wet	0.05000		81	74-127	5	200	
Chlorobenzene	0.0515	0.0050	mg/kg wet	0.05000		103	74-118	4	200	
Toluene	0.0412	0.0050	mg/kg wet	0.05000		82	71-129	5	200	
Trichloroethylene	0.0408	0.0050	mg/kg wet	0.05000		82	75-133	4	200	
Surrogate: 4-Bromofluorobenzene	0.0535		mg/kg wet	0.05000		107	70-130			
Surrogate: Dibromofluoromethane	0.0504		mg/kg wet	0.05000		101	84-123			
Surrogate: Toluene-d8	0.0584		mg/kg wet	0.05000		117	76-129			
Matrix Spike (P2G0089-MS1)										
		Source: 2070026-01			Prepared: 07/05/12		Analyzed: 07/06/12			
1,1-Dichloroethylene	0.0434	0.0064	mg/kg dry	0.04597	BRL	94	54-162			
Benzene	0.0426	0.0038	mg/kg dry	0.04597	BRL	93	60-135			
Chlorobenzene	0.0543	0.0064	mg/kg dry	0.04597	BRL	118	57-125			
Toluene	0.0435	0.0064	mg/kg dry	0.04597	BRL	95	57-135			
Trichloroethylene	0.0425	0.0064	mg/kg dry	0.04597	BRL	92	38-164			
Surrogate: 4-Bromofluorobenzene	0.0671		mg/kg dry	0.06385		105	70-130			
Surrogate: Dibromofluoromethane	0.0663		mg/kg dry	0.06385		104	84-123			
Surrogate: Toluene-d8	0.0740		mg/kg dry	0.06385		116	76-129			



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Project: 725 S. Elm St.

Prism Work Order: 2070026
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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2G0089 - 5035										
Matrix Spike Dup (P2G0089-MSD1)										
		Source: 2070026-01			Prepared: 07/05/12		Analyzed: 07/06/12			
1,1-Dichloroethylene	0.0372	0.0063	mg/kg dry	0.04539	BRL	82	54-162	15	22	
Benzene	0.0374	0.0038	mg/kg dry	0.04539	BRL	82	60-135	13	20	
Chlorobenzene	0.0472	0.0063	mg/kg dry	0.04539	BRL	104	57-125	14	14	
Toluene	0.0372	0.0063	mg/kg dry	0.04539	BRL	82	57-135	16	22	
Trichloroethylene	0.0363	0.0063	mg/kg dry	0.04539	BRL	80	38-164	16	18	
Surrogate: 4-Bromofluorobenzene	0.0671		mg/kg dry	0.06304		106	70-130			
Surrogate: Dibromofluoromethane	0.0630		mg/kg dry	0.06304		100	84-123			
Surrogate: Toluene-d8	0.0745		mg/kg dry	0.06304		118	76-129			

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Project: 725 S. Elm St.

Prism Work Order: 2070026
 Time Submitted: 7/2/2012 1:50:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P2G0076 - 3550C MS

Blank (P2G0076-BLK1)

Prepared: 07/05/12 Analyzed: 07/09/12

1,2,4-Trichlorobenzene	BRL	0.33	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.33	mg/kg wet							
2,4,5-Trichlorophenol	BRL	0.33	mg/kg wet							
2,4,6-Trichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dimethylphenol	BRL	0.33	mg/kg wet							
2,4-Dinitrophenol	BRL	0.33	mg/kg wet							
2,4-Dinitrotoluene	BRL	0.33	mg/kg wet							
2,6-Dinitrotoluene	BRL	0.33	mg/kg wet							
2-Chloronaphthalene	BRL	0.33	mg/kg wet							
2-Chlorophenol	BRL	0.33	mg/kg wet							
2-Methylnaphthalene	BRL	0.33	mg/kg wet							
2-Methylphenol	BRL	0.33	mg/kg wet							
2-Nitroaniline	BRL	0.33	mg/kg wet							
2-Nitrophenol	BRL	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	BRL	0.33	mg/kg wet							
3/4-Methylphenol	BRL	0.33	mg/kg wet							
3-Nitroaniline	BRL	0.33	mg/kg wet							
4,6-Dinitro-2-methylphenol	BRL	0.33	mg/kg wet							
4-Bromophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Chloro-3-methylphenol	BRL	0.33	mg/kg wet							
4-Chloroaniline	BRL	0.33	mg/kg wet							
4-Chlorophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Nitroaniline	BRL	0.33	mg/kg wet							
4-Nitrophenol	BRL	0.33	mg/kg wet							
Acenaphthene	BRL	0.33	mg/kg wet							
Acenaphthylene	BRL	0.33	mg/kg wet							
Aniline	BRL	0.33	mg/kg wet							
Anthracene	BRL	0.33	mg/kg wet							
Azobenzene	BRL	0.33	mg/kg wet							
Benzo(a)anthracene	BRL	0.33	mg/kg wet							
Benzo(a)pyrene	BRL	0.33	mg/kg wet							
Benzo(b)fluoranthene	BRL	0.33	mg/kg wet							
Benzo(g,h,i)perylene	BRL	0.33	mg/kg wet							
Benzo(k)fluoranthene	BRL	0.33	mg/kg wet							
Benzoic Acid	BRL	0.33	mg/kg wet							
Benzyl alcohol	BRL	0.33	mg/kg wet							
bis(2-Chloroethoxy)methane	BRL	0.33	mg/kg wet							
Bis(2-Chloroethyl)ether	BRL	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	BRL	0.33	mg/kg wet							
Bis(2-Ethylhexyl)phthalate	BRL	0.33	mg/kg wet							
Butyl benzyl phthalate	BRL	0.33	mg/kg wet							
Chrysene	BRL	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	BRL	0.33	mg/kg wet							

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Project: 725 S. Elm St.

Prism Work Order: 2070026
 Time Submitted: 7/2/2012 1:50:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P2G0076 - 3550C MS

Blank (P2G0076-BLK1)

Prepared: 07/05/12 Analyzed: 07/09/12

Dibenzofuran	BRL	0.33	mg/kg wet							
Diethyl phthalate	BRL	0.33	mg/kg wet							
Dimethyl phthalate	BRL	0.33	mg/kg wet							
Di-n-butyl phthalate	BRL	0.33	mg/kg wet							
Di-n-octyl phthalate	BRL	0.33	mg/kg wet							
Fluoranthene	BRL	0.33	mg/kg wet							
Fluorene	BRL	0.33	mg/kg wet							
Hexachlorobenzene	BRL	0.33	mg/kg wet							
Hexachlorobutadiene	BRL	0.33	mg/kg wet							
Hexachlorocyclopentadiene	BRL	0.33	mg/kg wet							
Hexachloroethane	BRL	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BRL	0.33	mg/kg wet							
Isophorone	BRL	0.33	mg/kg wet							
Naphthalene	BRL	0.33	mg/kg wet							
Nitrobenzene	BRL	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	BRL	0.33	mg/kg wet							
N-Nitrosodiphenylamine	BRL	0.33	mg/kg wet							
Pentachlorophenol	BRL	0.33	mg/kg wet							
Phenanthrene	BRL	0.33	mg/kg wet							
Phenol	BRL	0.33	mg/kg wet							
Pyrene	BRL	0.33	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	2.51		mg/kg wet	3.323		75	37-131			
Surrogate: 2-Fluorobiphenyl	1.51		mg/kg wet	1.662		91	47-130			
Surrogate: 2-Fluorophenol	2.72		mg/kg wet	3.323		82	44-117			
Surrogate: Nitrobenzene-d5	1.64		mg/kg wet	1.662		99	45-121			
Surrogate: Phenol-d5	2.85		mg/kg wet	3.323		86	37-127			
Surrogate: Terphenyl-d14	0.905		mg/kg wet	1.662		54	38-135			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2G0076 - 3550C MS										
LCS (P2G0076-BS1)										
				Prepared: 07/05/12 Analyzed: 07/09/12						
1,2,4-Trichlorobenzene	1.14	0.33	mg/kg wet	1.661		69	54-110			
1,2-Dichlorobenzene	1.11	0.33	mg/kg wet	1.661		67	53-107			
1,3-Dichlorobenzene	1.08	0.33	mg/kg wet	1.661		65	52-108			
1,4-Dichlorobenzene	1.11	0.33	mg/kg wet	1.661		67	52-108			
2,4,5-Trichlorophenol	1.31	0.33	mg/kg wet	1.661		79	62-124			
2,4,6-Trichlorophenol	1.35	0.33	mg/kg wet	1.661		82	62-120			
2,4-Dichlorophenol	1.33	0.33	mg/kg wet	1.661		80	58-113			
2,4-Dimethylphenol	1.30	0.33	mg/kg wet	1.661		78	59-110			
2,4-Dinitrophenol	1.60	0.33	mg/kg wet	1.661		96	29-134			
2,4-Dinitrotoluene	1.64	0.33	mg/kg wet	1.661		99	63-137			
2,6-Dinitrotoluene	1.60	0.33	mg/kg wet	1.661		96	59-134			
2-Chloronaphthalene	1.38	0.33	mg/kg wet	1.661		83	41-147			
2-Chlorophenol	1.19	0.33	mg/kg wet	1.661		71	55-108			
2-Methylnaphthalene	1.25	0.33	mg/kg wet	1.661		75	57-116			
2-Methylphenol	1.46	0.33	mg/kg wet	1.661		88	56-111			
2-Nitroaniline	1.80	0.33	mg/kg wet	1.661		109	62-125			
2-Nitrophenol	1.37	0.33	mg/kg wet	1.661		82	58-112			
3,3'-Dichlorobenzidine	1.59	0.33	mg/kg wet	1.661		96	51-161			
3/4-Methylphenol	1.45	0.33	mg/kg wet	1.661		87	56-111			
3-Nitroaniline	1.40	0.33	mg/kg wet	1.661		84	65-136			
4,6-Dinitro-2-methylphenol	1.78	0.33	mg/kg wet	1.661		107	46-148			
4-Bromophenyl phenyl ether	1.45	0.33	mg/kg wet	1.661		87	58-137			
4-Chloro-3-methylphenol	1.47	0.33	mg/kg wet	1.661		88	60-118			
4-Chloroaniline	1.28	0.33	mg/kg wet	1.661		77	53-144			
4-Chlorophenyl phenyl ether	1.44	0.33	mg/kg wet	1.661		87	59-131			
4-Nitroaniline	1.48	0.33	mg/kg wet	1.661		89	62-143			
4-Nitrophenol	1.93	0.33	mg/kg wet	1.661		116	48-148			
Acenaphthene	1.27	0.33	mg/kg wet	1.661		76	62-118			
Acenaphthylene	1.28	0.33	mg/kg wet	1.661		77	64-116			
Aniline	1.53	0.33	mg/kg wet	1.661		92	24-190			
Anthracene	1.82	0.33	mg/kg wet	1.661		109	71-132			
Azobenzene	1.68	0.33	mg/kg wet	1.661		101	56-125			
Benzo(a)anthracene	1.41	0.33	mg/kg wet	1.661		85	71-129			
Benzo(a)pyrene	1.50	0.33	mg/kg wet	1.661		90	74-129			
Benzo(b)fluoranthene	1.35	0.33	mg/kg wet	1.661		81	63-138			
Benzo(g,h,i)perylene	1.71	0.33	mg/kg wet	1.661		103	41-154			
Benzo(k)fluoranthene	1.29	0.33	mg/kg wet	1.661		78	62-145			
Benzoic Acid	0.746	0.33	mg/kg wet	1.661		45	10-83			
Benzyl alcohol	1.42	0.33	mg/kg wet	1.661		85	55-112			
bis(2-Chloroethoxy)methane	1.42	0.33	mg/kg wet	1.661		86	52-118			
Bis(2-Chloroethyl)ether	1.40	0.33	mg/kg wet	1.661		84	50-116			
Bis(2-chloroisopropyl)ether	1.46	0.33	mg/kg wet	1.661		88	48-119			
Bis(2-Ethylhexyl)phthalate	1.62	0.33	mg/kg wet	1.661		97	62-135			
Butyl benzyl phthalate	1.46	0.33	mg/kg wet	1.661		88	62-133			
Chrysene	1.42	0.33	mg/kg wet	1.661		86	72-129			
Dibenzo(a,h)anthracene	1.70	0.33	mg/kg wet	1.661		102	41-158			

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Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2070026
 Time Submitted: 7/2/2012 1:50:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2G0076 - 3550C MS										
LCS (P2G0076-BS1)										
				Prepared: 07/05/12 Analyzed: 07/09/12						
Dibenzofuran	1.29	0.33	mg/kg wet	1.661		78	64-115			
Diethyl phthalate	1.47	0.33	mg/kg wet	1.661		89	73-120			
Dimethyl phthalate	1.39	0.33	mg/kg wet	1.661		83	71-115			
Di-n-butyl phthalate	1.37	0.33	mg/kg wet	1.661		82	68-127			
Di-n-octyl phthalate	1.47	0.33	mg/kg wet	1.661		88	53-150			
Fluoranthene	1.33	0.33	mg/kg wet	1.661		80	64-136			
Fluorene	1.26	0.33	mg/kg wet	1.661		76	67-120			
Hexachlorobenzene	1.35	0.33	mg/kg wet	1.661		81	63-134			
Hexachlorobutadiene	1.12	0.33	mg/kg wet	1.661		68	55-112			
Hexachlorocyclopentadiene	1.15	0.33	mg/kg wet	1.661		69	43-135			
Hexachloroethane	1.17	0.33	mg/kg wet	1.661		71	49-113			
Indeno(1,2,3-cd)pyrene	1.70	0.33	mg/kg wet	1.661		102	40-160			
Isophorone	1.62	0.33	mg/kg wet	1.661		97	55-118			
Naphthalene	1.22	0.33	mg/kg wet	1.661		73	62-111			
Nitrobenzene	1.60	0.33	mg/kg wet	1.661		97	50-116			
N-Nitroso-di-n-propylamine	1.63	0.33	mg/kg wet	1.661		98	53-113			
N-Nitrosodiphenylamine	1.51	0.33	mg/kg wet	1.661		91	76-144			
Pentachlorophenol	1.67	0.33	mg/kg wet	1.661		101	36-145			
Phenanthrene	1.48	0.33	mg/kg wet	1.661		89	72-123			
Phenol	1.41	0.33	mg/kg wet	1.661		85	56-108			
Pyrene	1.30	0.33	mg/kg wet	1.661		78	51-141			
Surrogate: 2,4,6-Tribromophenol	2.57		mg/kg wet	3.321		77	37-131			
Surrogate: 2-Fluorobiphenyl	1.42		mg/kg wet	1.661		85	47-130			
Surrogate: 2-Fluorophenol	2.68		mg/kg wet	3.321		81	44-117			
Surrogate: Nitrobenzene-d5	1.57		mg/kg wet	1.661		94	45-121			
Surrogate: Phenol-d5	2.66		mg/kg wet	3.321		80	37-127			
Surrogate: Terphenyl-d14	1.17		mg/kg wet	1.661		71	38-135			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2G0076 - 3550C MS										
LCS Dup (P2G0076-BSD1)										
				Prepared: 07/05/12 Analyzed: 07/09/12						
1,2,4-Trichlorobenzene	1.17	0.33	mg/kg wet	1.666		70	54-110	2	200	
1,2-Dichlorobenzene	1.07	0.33	mg/kg wet	1.666		64	53-107	4	200	
1,3-Dichlorobenzene	1.00	0.33	mg/kg wet	1.666		60	52-108	7	200	
1,4-Dichlorobenzene	1.03	0.33	mg/kg wet	1.666		62	52-108	7	200	
2,4,5-Trichlorophenol	1.47	0.33	mg/kg wet	1.666		88	62-124	11	200	
2,4,6-Trichlorophenol	1.42	0.33	mg/kg wet	1.666		85	62-120	4	200	
2,4-Dichlorophenol	1.37	0.33	mg/kg wet	1.666		82	58-113	3	200	
2,4-Dimethylphenol	1.34	0.33	mg/kg wet	1.666		81	59-110	3	200	
2,4-Dinitrophenol	1.79	0.33	mg/kg wet	1.666		108	29-134	12	200	
2,4-Dinitrotoluene	1.76	0.33	mg/kg wet	1.666		106	63-137	7	200	
2,6-Dinitrotoluene	1.72	0.33	mg/kg wet	1.666		104	59-134	7	200	
2-Chloronaphthalene	1.42	0.33	mg/kg wet	1.666		85	41-147	3	200	
2-Chlorophenol	1.15	0.33	mg/kg wet	1.666		69	55-108	3	200	
2-Methylnaphthalene	1.32	0.33	mg/kg wet	1.666		79	57-116	6	200	
2-Methylphenol	1.49	0.33	mg/kg wet	1.666		89	56-111	2	200	
2-Nitroaniline	1.98	0.33	mg/kg wet	1.666		119	62-125	9	200	
2-Nitrophenol	1.41	0.33	mg/kg wet	1.666		84	58-112	3	200	
3,3'-Dichlorobenzidine	2.01	0.33	mg/kg wet	1.666		121	51-161	23	200	
3/4-Methylphenol	1.49	0.33	mg/kg wet	1.666		89	56-111	2	200	
3-Nitroaniline	1.51	0.33	mg/kg wet	1.666		90	65-136	7	200	
4,6-Dinitro-2-methylphenol	2.01	0.33	mg/kg wet	1.666		120	46-148	12	200	
4-Bromophenyl phenyl ether	1.52	0.33	mg/kg wet	1.666		91	58-137	5	200	
4-Chloro-3-methylphenol	1.58	0.33	mg/kg wet	1.666		95	60-118	8	200	
4-Chloroaniline	1.36	0.33	mg/kg wet	1.666		81	53-144	5	200	
4-Chlorophenyl phenyl ether	1.52	0.33	mg/kg wet	1.666		91	59-131	6	200	
4-Nitroaniline	1.71	0.33	mg/kg wet	1.666		102	62-143	15	200	
4-Nitrophenol	2.25	0.33	mg/kg wet	1.666		135	48-148	15	200	
Acenaphthene	1.29	0.33	mg/kg wet	1.666		77	62-118	2	200	
Acenaphthylene	1.33	0.33	mg/kg wet	1.666		80	64-116	3	200	
Aniline	1.66	0.33	mg/kg wet	1.666		100	24-190	8	200	
Anthracene	1.82	0.33	mg/kg wet	1.666		109	71-132	0.1	200	
Azobenzene	1.76	0.33	mg/kg wet	1.666		106	56-125	5	200	
Benzo(a)anthracene	1.53	0.33	mg/kg wet	1.666		92	71-129	8	200	
Benzo(a)pyrene	1.57	0.33	mg/kg wet	1.666		94	74-129	5	200	
Benzo(b)fluoranthene	1.34	0.33	mg/kg wet	1.666		81	63-138	0.4	200	
Benzo(g,h,i)perylene	2.02	0.33	mg/kg wet	1.666		121	41-154	17	200	
Benzo(k)fluoranthene	1.37	0.33	mg/kg wet	1.666		82	62-145	6	200	
Benzoic Acid	0.724	0.33	mg/kg wet	1.666		43	10-83	3	200	
Benzyl alcohol	1.46	0.33	mg/kg wet	1.666		88	55-112	3	200	
bis(2-Chloroethoxy)methane	1.46	0.33	mg/kg wet	1.666		88	52-118	3	200	
Bis(2-Chloroethyl)ether	1.40	0.33	mg/kg wet	1.666		84	50-116	0.06	200	
Bis(2-chloroisopropyl)ether	1.49	0.33	mg/kg wet	1.666		89	48-119	2	200	
Bis(2-Ethylhexyl)phthalate	1.73	0.33	mg/kg wet	1.666		104	62-135	7	200	
Butyl benzyl phthalate	1.52	0.33	mg/kg wet	1.666		91	62-133	4	200	
Chrysene	1.52	0.33	mg/kg wet	1.666		91	72-129	7	200	
Dibenzo(a,h)anthracene	1.99	0.33	mg/kg wet	1.666		119	41-158	16	200	

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Hart & Hickman (Raleigh)
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 Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2070026
 Time Submitted: 7/2/2012 1:50:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2G0076 - 3550C MS										
LCS Dup (P2G0076-BSD1)										
				Prepared: 07/05/12 Analyzed: 07/09/12						
Dibenzofuran	1.32	0.33	mg/kg wet	1.666		79	64-115	2	200	
Diethyl phthalate	1.58	0.33	mg/kg wet	1.666		95	73-120	7	200	
Dimethyl phthalate	1.52	0.33	mg/kg wet	1.666		91	71-115	9	200	
Di-n-butyl phthalate	1.47	0.33	mg/kg wet	1.666		88	68-127	7	200	
Di-n-octyl phthalate	1.34	0.33	mg/kg wet	1.666		80	53-150	9	200	
Fluoranthene	1.45	0.33	mg/kg wet	1.666		87	64-136	9	200	
Fluorene	1.30	0.33	mg/kg wet	1.666		78	67-120	4	200	
Hexachlorobenzene	1.40	0.33	mg/kg wet	1.666		84	63-134	3	200	
Hexachlorobutadiene	1.11	0.33	mg/kg wet	1.666		67	55-112	1	200	
Hexachlorocyclopentadiene	1.19	0.33	mg/kg wet	1.666		71	43-135	3	200	
Hexachloroethane	1.13	0.33	mg/kg wet	1.666		68	49-113	4	200	
Indeno(1,2,3-cd)pyrene	2.06	0.33	mg/kg wet	1.666		124	40-160	19	200	
Isophorone	1.73	0.33	mg/kg wet	1.666		104	55-118	7	200	
Naphthalene	1.20	0.33	mg/kg wet	1.666		72	62-111	1	200	
Nitrobenzene	1.62	0.33	mg/kg wet	1.666		97	50-116	1	200	
N-Nitroso-di-n-propylamine	1.70	0.33	mg/kg wet	1.666		102	53-113	4	200	
N-Nitrosodiphenylamine	1.55	0.33	mg/kg wet	1.666		93	76-144	2	200	
Pentachlorophenol	1.84	0.33	mg/kg wet	1.666		110	36-145	9	200	
Phenanthrene	1.56	0.33	mg/kg wet	1.666		94	72-123	5	200	
Phenol	1.38	0.33	mg/kg wet	1.666		83	56-108	3	200	
Pyrene	1.29	0.33	mg/kg wet	1.666		77	51-141	1	200	
Surrogate: 2,4,6-Tribromophenol	2.72		mg/kg wet	3.331		82	37-131			
Surrogate: 2-Fluorobiphenyl	1.43		mg/kg wet	1.666		86	47-130			
Surrogate: 2-Fluorophenol	2.52		mg/kg wet	3.331		76	44-117			
Surrogate: Nitrobenzene-d5	1.62		mg/kg wet	1.666		97	45-121			
Surrogate: Phenol-d5	2.62		mg/kg wet	3.331		79	37-127			
Surrogate: Terphenyl-d14	1.19		mg/kg wet	1.666		72	38-135			



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Project: 725 S. Elm St.

Prism Work Order: 2070026
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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2G0076 - 3550C MS										
Matrix Spike (P2G0076-MS3)	Source: 2070026-01			Prepared: 07/05/12		Analyzed: 07/11/12				
1,2,4-Trichlorobenzene	BRL	7.8	mg/kg dry	1.965	BRL		25-104			
1,2-Dichlorobenzene	BRL	7.8	mg/kg dry	1.965	BRL		22-103			
1,3-Dichlorobenzene	BRL	7.8	mg/kg dry	1.965	BRL		18-101			
1,4-Dichlorobenzene	BRL	7.8	mg/kg dry	1.965	BRL		14-108			
2,4,5-Trichlorophenol	BRL	7.8	mg/kg dry	1.965	BRL		45-121			
2,4,6-Trichlorophenol	BRL	7.8	mg/kg dry	1.965	BRL		44-115			
2,4-Dichlorophenol	BRL	7.8	mg/kg dry	1.965	BRL		26-120			
2,4-Dimethylphenol	BRL	7.8	mg/kg dry	1.965	BRL		33-113			
2,4-Dinitrophenol	4.25	7.8	mg/kg dry	1.965	BRL	216	14-148			
2,4-Dinitrotoluene	1.74	7.8	mg/kg dry	1.965	BRL	89	49-134			
2,6-Dinitrotoluene	1.95	7.8	mg/kg dry	1.965	BRL	99	44-131			
2-Chloronaphthalene	BRL	7.8	mg/kg dry	1.965	BRL		38-112			
2-Chlorophenol	BRL	7.8	mg/kg dry	1.965	BRL		26-108			
2-Methylnaphthalene	BRL	7.8	mg/kg dry	1.965	BRL		12-128			
2-Methylphenol	BRL	7.8	mg/kg dry	1.965	BRL		26-116			
2-Nitroaniline	1.85	7.8	mg/kg dry	1.965	BRL	94	45-135			
2-Nitrophenol	BRL	7.8	mg/kg dry	1.965	BRL		20-119			
3,3'-Dichlorobenzidine	BRL	7.8	mg/kg dry	1.965	BRL		10-191			
3/4-Methylphenol	BRL	7.8	mg/kg dry	1.965	BRL		28-116			
3-Nitroaniline	BRL	7.8	mg/kg dry	1.965	BRL		45-135			
4,6-Dinitro-2-methylphenol	BRL	7.8	mg/kg dry	1.965	BRL		30-148			
4-Bromophenyl phenyl ether	2.17	7.8	mg/kg dry	1.965	BRL	110	43-126			
4-Chloro-3-methylphenol	BRL	7.8	mg/kg dry	1.965	BRL		41-120			
4-Chloroaniline	BRL	7.8	mg/kg dry	1.965	BRL		35-115			
4-Chlorophenyl phenyl ether	BRL	7.8	mg/kg dry	1.965	BRL		45-123			
4-Nitroaniline	BRL	7.8	mg/kg dry	1.965	BRL		45-135			
4-Nitrophenol	BRL	7.8	mg/kg dry	1.965	BRL		33-136			
Acenaphthene	BRL	7.8	mg/kg dry	1.965	BRL		46-115			
Acenaphthylene	BRL	7.8	mg/kg dry	1.965	BRL		40-125			
Aniline	BRL	7.8	mg/kg dry	1.965	BRL		20-150			
Anthracene	2.15	7.8	mg/kg dry	1.965	BRL	110	56-127			
Azobenzene	2.11	7.8	mg/kg dry	1.965	BRL	108	49-123			
Benzo(a)anthracene	1.87	7.8	mg/kg dry	1.965	BRL	95	50-134			
Benzo(a)pyrene	1.70	7.8	mg/kg dry	1.965	BRL	86	59-129			
Benzo(b)fluoranthene	1.68	7.8	mg/kg dry	1.965	BRL	86	46-141			
Benzo(g,h,i)perylene	BRL	7.8	mg/kg dry	1.965	BRL		47-136			
Benzo(k)fluoranthene	BRL	7.8	mg/kg dry	1.965	BRL		36-151			
Benzoic Acid	6.29	7.8	mg/kg dry	1.965	BRL	320	10-122			
Benzyl alcohol	BRL	7.8	mg/kg dry	1.965	BRL		29-112			
bis(2-Chloroethoxy)methane	BRL	7.8	mg/kg dry	1.965	BRL		31-119			
Bis(2-Chloroethyl)ether	BRL	7.8	mg/kg dry	1.965	BRL		23-111			
Bis(2-chloroisopropyl)ether	BRL	7.8	mg/kg dry	1.965	BRL		22-109			
Bis(2-Ethylhexyl)phthalate	1.89	7.8	mg/kg dry	1.965	BRL	96	45-153			
Butyl benzyl phthalate	1.88	7.8	mg/kg dry	1.965	BRL	96	43-156			
Chrysene	1.98	7.8	mg/kg dry	1.965	BRL	101	46-140			
Dibenzo(a,h)anthracene	BRL	7.8	mg/kg dry	1.965	BRL		43-141			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2G0076 - 3550C MS										
Matrix Spike (P2G0076-MS3)										
			Source: 2070026-01		Prepared: 07/05/12		Analyzed: 07/11/12			
Dibenzofuran	BRL	7.8	mg/kg dry	1.965	BRL		45-121			
Diethyl phthalate	2.00	7.8	mg/kg dry	1.965	BRL	102	53-128			
Dimethyl phthalate	2.11	7.8	mg/kg dry	1.965	BRL	108	54-123			
Di-n-butyl phthalate	2.22	7.8	mg/kg dry	1.965	BRL	113	44-137			
Di-n-octyl phthalate	BRL	7.8	mg/kg dry	1.965	BRL		45-151			
Fluoranthene	BRL	7.8	mg/kg dry	1.965	BRL		37-140			
Fluorene	2.03	7.8	mg/kg dry	1.965	BRL	103	49-119			
Hexachlorobenzene	1.95	7.8	mg/kg dry	1.965	BRL	99	47-128			
Hexachlorobutadiene	BRL	7.8	mg/kg dry	1.965	BRL		24-107			
Hexachlorocyclopentadiene	BRL	7.8	mg/kg dry	1.965	BRL		20-121			
Hexachloroethane	BRL	7.8	mg/kg dry	1.965	BRL		17-102			
Indeno(1,2,3-cd)pyrene	BRL	7.8	mg/kg dry	1.965	BRL		27-156			
Isophorone	BRL	7.8	mg/kg dry	1.965	BRL		22-130			
Naphthalene	BRL	7.8	mg/kg dry	1.965	BRL		27-111			
Nitrobenzene	BRL	7.8	mg/kg dry	1.965	BRL		23-120			
N-Nitroso-di-n-propylamine	BRL	7.8	mg/kg dry	1.965	BRL		27-120			
N-Nitrosodiphenylamine	2.28	7.8	mg/kg dry	1.965	BRL	116	46-153			
Pentachlorophenol	0.660	7.8	mg/kg dry	1.965	BRL	34	36-155			
Phenanthrene	2.19	7.8	mg/kg dry	1.965	BRL	111	48-137			
Phenol	BRL	7.8	mg/kg dry	1.965	BRL		23-115			
Pyrene	BRL	7.8	mg/kg dry	1.965	BRL		43-146			
Surrogate: 2,4,6-Tribromophenol	1.33		mg/kg dry	1.965		68	37-131			
Surrogate: 2-Fluorobiphenyl	1.20		mg/kg dry	0.9825		122	47-130			
Surrogate: 2-Fluorophenol	1.22		mg/kg dry	1.965		62	44-117			
Surrogate: Nitrobenzene-d5	0.786		mg/kg dry	0.9825		80	45-121			
Surrogate: Phenol-d5	1.72		mg/kg dry	1.965		88	37-127			
Surrogate: Terphenyl-d14	0.849		mg/kg dry	0.9825		86	38-135			

Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2070026
 Time Submitted: 7/2/2012 1:50:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2G0076 - 3550C MS										
Matrix Spike Dup (P2G0076-MSD3)		Source: 2070026-01			Prepared: 07/05/12		Analyzed: 07/11/12			
1,2,4-Trichlorobenzene	BRL	7.8	mg/kg dry	1.978	BRL		25-104		46	
1,2-Dichlorobenzene	BRL	7.8	mg/kg dry	1.978	BRL		22-103		49	
1,3-Dichlorobenzene	BRL	7.8	mg/kg dry	1.978	BRL		18-101		55	
1,4-Dichlorobenzene	BRL	7.8	mg/kg dry	1.978	BRL		14-108		50	
2,4,5-Trichlorophenol	2.21	7.8	mg/kg dry	1.978	BRL	112	45-121		35	
2,4,6-Trichlorophenol	BRL	7.8	mg/kg dry	1.978	BRL		44-115		35	
2,4-Dichlorophenol	BRL	7.8	mg/kg dry	1.978	BRL		26-120		45	
2,4-Dimethylphenol	BRL	7.8	mg/kg dry	1.978	BRL		33-113		47	
2,4-Dinitrophenol	4.33	7.8	mg/kg dry	1.978	BRL	219	14-148	2	39	
2,4-Dinitrotoluene	2.35	7.8	mg/kg dry	1.978	BRL	119	49-134	30	28	
2,6-Dinitrotoluene	2.44	7.8	mg/kg dry	1.978	BRL	124	44-131	23	31	
2-Chloronaphthalene	BRL	7.8	mg/kg dry	1.978	BRL		38-112		37	
2-Chlorophenol	BRL	7.8	mg/kg dry	1.978	BRL		26-108		51	
2-Methylnaphthalene	BRL	7.8	mg/kg dry	1.978	BRL		12-128		48	
2-Methylphenol	BRL	7.8	mg/kg dry	1.978	BRL		26-116		48	
2-Nitroaniline	2.11	7.8	mg/kg dry	1.978	BRL	107	45-135	13	60	
2-Nitrophenol	BRL	7.8	mg/kg dry	1.978	BRL		20-119		44	
3,3'-Dichlorobenzidine	1.59	7.8	mg/kg dry	1.978	BRL	80	10-191		35	
3/4-Methylphenol	BRL	7.8	mg/kg dry	1.978	BRL		28-116		45	
3-Nitroaniline	BRL	7.8	mg/kg dry	1.978	BRL		45-135		60	
4,6-Dinitro-2-methylphenol	BRL	7.8	mg/kg dry	1.978	BRL		30-148		27	
4-Bromophenyl phenyl ether	2.74	7.8	mg/kg dry	1.978	BRL	138	43-126	23	26	
4-Chloro-3-methylphenol	BRL	7.8	mg/kg dry	1.978	BRL		41-120		35	
4-Chloroaniline	BRL	7.8	mg/kg dry	1.978	BRL		35-115		41	
4-Chlorophenyl phenyl ether	2.58	7.8	mg/kg dry	1.978	BRL	130	45-123		30	
4-Nitroaniline	BRL	7.8	mg/kg dry	1.978	BRL		45-135		60	
4-Nitrophenol	1.23	7.8	mg/kg dry	1.978	BRL	62	33-136		31	
Acenaphthene	2.61	7.8	mg/kg dry	1.978	BRL	132	46-115		35	
Acenaphthylene	BRL	7.8	mg/kg dry	1.978	BRL		40-125		35	
Aniline	BRL	7.8	mg/kg dry	1.978	BRL		20-150		60	
Anthracene	2.71	7.8	mg/kg dry	1.978	BRL	137	56-127	23	26	
Azobenzene	2.60	7.8	mg/kg dry	1.978	BRL	132	49-123	21	30	
Benzo(a)anthracene	2.31	7.8	mg/kg dry	1.978	BRL	117	50-134	21	25	
Benzo(a)pyrene	2.02	7.8	mg/kg dry	1.978	BRL	102	59-129	17	22	
Benzo(b)fluoranthene	2.08	7.8	mg/kg dry	1.978	BRL	105	46-141	21	33	
Benzo(g,h,i)perylene	BRL	7.8	mg/kg dry	1.978	BRL		47-136		26	
Benzo(k)fluoranthene	BRL	7.8	mg/kg dry	1.978	BRL		36-151		38	
Benzoic Acid	6.31	7.8	mg/kg dry	1.978	BRL	319	10-122	0.4	60	
Benzyl alcohol	BRL	7.8	mg/kg dry	1.978	BRL		29-112		43	
bis(2-Chloroethoxy)methane	BRL	7.8	mg/kg dry	1.978	BRL		31-119		46	
Bis(2-Chloroethyl)ether	BRL	7.8	mg/kg dry	1.978	BRL		23-111		54	
Bis(2-chloroisopropyl)ether	BRL	7.8	mg/kg dry	1.978	BRL		22-109		50	
Bis(2-Ethylhexyl)phthalate	2.29	7.8	mg/kg dry	1.978	BRL	116	45-153	19	26	
Butyl benzyl phthalate	2.53	7.8	mg/kg dry	1.978	BRL	128	43-156	30	22	
Chrysene	2.41	7.8	mg/kg dry	1.978	BRL	122	46-140	20	32	
Dibenzo(a,h)anthracene	BRL	7.8	mg/kg dry	1.978	BRL		43-141		25	

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Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2070026
 Time Submitted: 7/2/2012 1:50:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2G0076 - 3550C MS										
Matrix Spike Dup (P2G0076-MSD3)										
Source: 2070026-01 Prepared: 07/05/12 Analyzed: 07/11/12										
Dibenzofuran	2.57	7.8	mg/kg dry	1.978	BRL	130	45-121		36	
Diethyl phthalate	2.63	7.8	mg/kg dry	1.978	BRL	133	53-128	28	20	
Dimethyl phthalate	2.50	7.8	mg/kg dry	1.978	BRL	126	54-123	17	24	
Di-n-butyl phthalate	2.82	7.8	mg/kg dry	1.978	BRL	143	44-137	24	33	
Di-n-octyl phthalate	1.88	7.8	mg/kg dry	1.978	BRL	95	45-151		25	
Fluoranthene	BRL	7.8	mg/kg dry	1.978	BRL		37-140		35	
Fluorene	2.56	7.8	mg/kg dry	1.978	BRL	130	49-119	23	31	
Hexachlorobenzene	2.44	7.8	mg/kg dry	1.978	BRL	124	47-128	23	23	
Hexachlorobutadiene	BRL	7.8	mg/kg dry	1.978	BRL		24-107		50	
Hexachlorocyclopentadiene	BRL	7.8	mg/kg dry	1.978	BRL		20-121		50	
Hexachloroethane	BRL	7.8	mg/kg dry	1.978	BRL		17-102		50	
Indeno(1,2,3-cd)pyrene	BRL	7.8	mg/kg dry	1.978	BRL		27-156		35	
Isophorone	BRL	7.8	mg/kg dry	1.978	BRL		22-130		37	
Naphthalene	BRL	7.8	mg/kg dry	1.978	BRL		27-111		51	
Nitrobenzene	BRL	7.8	mg/kg dry	1.978	BRL		23-120		43	
N-Nitroso-di-n-propylamine	BRL	7.8	mg/kg dry	1.978	BRL		27-120		47	
N-Nitrosodiphenylamine	2.83	7.8	mg/kg dry	1.978	BRL	143	46-153	22	29	
Pentachlorophenol	0.831	7.8	mg/kg dry	1.978	BRL	42	36-155	23	31	
Phenanthrene	2.72	7.8	mg/kg dry	1.978	BRL	138	48-137	22	32	
Phenol	BRL	7.8	mg/kg dry	1.978	BRL		23-115		56	
Pyrene	2.79	7.8	mg/kg dry	1.978	BRL	141	43-146		31	
Surrogate: 2,4,6-Tribromophenol	1.88		mg/kg dry	1.978		95	37-131			
Surrogate: 2-Fluorobiphenyl	1.07		mg/kg dry	0.9890		108	47-130			
Surrogate: 2-Fluorophenol	1.81		mg/kg dry	1.978		92	44-117			
Surrogate: Nitrobenzene-d5	0.665		mg/kg dry	0.9890		67	45-121			
Surrogate: Phenol-d5	1.99		mg/kg dry	1.978		100	37-127			
Surrogate: Terphenyl-d14	1.20		mg/kg dry	0.9890		122	38-135			

Hart & Hickman (Raleigh)
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 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2070026
 Time Submitted: 7/2/2012 1:50:00PM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2G0058 - MADEP VPH (S)										
Blank (P2G0058-BLK1)										
Prepared: 07/03/12 Analyzed: 07/05/12										
C5-C8 Aliphatics	BRL	5.0	mg/kg wet							
C9-C12 Aliphatics	BRL	5.0	mg/kg wet							
C9-C10 Aromatics	BRL	5.0	mg/kg wet							
Surrogate: 2,5-Dibromotoluene (PID)	9.58		mg/kg wet	10.67		90	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	9.54		mg/kg wet	10.67		89	70-130			
LCS (P2G0058-BS1)										
Prepared: 07/03/12 Analyzed: 07/05/12										
C5-C8 Aliphatics	30.7	5.0	mg/kg wet	32.00		96	70-130			
C9-C10 Aromatics	10.9	5.0	mg/kg wet	10.67		102	70-130			
C9-C12 Aliphatic	35.6	5.0	mg/kg wet	32.00		111	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	9.87		mg/kg wet	10.67		93	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	9.78		mg/kg wet	10.67		92	70-130			
LCS Dup (P2G0058-BSD1)										
Prepared: 07/03/12 Analyzed: 07/05/12										
C5-C8 Aliphatics	28.8	5.0	mg/kg wet	32.00		90	70-130	6	200	
C9-C10 Aromatics	10.4	5.0	mg/kg wet	10.67		98	70-130	4	200	
C9-C12 Aliphatic	34.8	5.0	mg/kg wet	32.00		109	70-130	2	200	
Surrogate: 2,5-Dibromotoluene (PID)	9.64		mg/kg wet	10.67		90	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	9.57		mg/kg wet	10.67		90	70-130			

Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2070026
 Time Submitted: 7/2/2012 1:50:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2G0097 - MADEP EPH (S)										
Blank (P2G0097-BLK1)										
Prepared: 07/06/12 Analyzed: 07/10/12										
C9-C18 Aliphatics	BRL	10	mg/kg wet							
C19-C36 Aliphatics	BRL	10	mg/kg wet							
C11-C22 Aromatics	BRL	10	mg/kg wet							
Surrogate: 1-Chlorooctadecane	1.17		mg/kg wet	1.996		59	40-140			
Surrogate: o-Terphenyl	1.04		mg/kg wet	1.996		52	40-140			
Surrogate: 2-Fluorobiphenyl	2.85		mg/kg wet	3.992		71	40-140			
Surrogate: 2-Bromonaphthalene	2.26		mg/kg wet	3.992		57	40-140			
LCS (P2G0097-BS1)										
Prepared: 07/06/12 Analyzed: 07/10/12										
C9-C18 Aliphatics	29.9	9.8	mg/kg wet	58.77		51	40-140			
C19-C36 Aliphatics	54.4	9.8	mg/kg wet	78.35		69	40-140			
C11-C22 Aromatics	109	9.8	mg/kg wet	166.5		65	40-140			
Surrogate: 1-Chlorooctadecane	1.24		mg/kg wet	1.959		63	40-140			
Surrogate: o-Terphenyl	1.17		mg/kg wet	1.959		60	40-140			
Surrogate: 2-Fluorobiphenyl	3.69		mg/kg wet	3.918		94	40-140			
Surrogate: 2-Bromonaphthalene	3.60		mg/kg wet	3.918		92	40-140			
LCS Dup (P2G0097-BSD1)										
Prepared: 07/06/12 Analyzed: 07/10/12										
C9-C18 Aliphatics	29.3	10	mg/kg wet	59.76		49	40-140	2	50	
C19-C36 Aliphatics	49.1	10	mg/kg wet	79.68		62	40-140	10	50	
C11-C22 Aromatics	96.6	10	mg/kg wet	169.3		57	40-140	12	50	
Surrogate: 1-Chlorooctadecane	1.16		mg/kg wet	1.992		58	40-140			
Surrogate: o-Terphenyl	1.10		mg/kg wet	1.992		55	40-140			
Surrogate: 2-Fluorobiphenyl	3.19		mg/kg wet	3.984		80	40-140			
Surrogate: 2-Bromonaphthalene	2.96		mg/kg wet	3.984		74	40-140			
Matrix Spike (P2G0097-MS1)										
Source: 2070026-01 Prepared: 07/06/12 Analyzed: 07/10/12										
C9-C18 Aliphatics	39.9	12	mg/kg dry	70.00	BRL	57	40-140			
C19-C36 Aliphatics	71.0	12	mg/kg dry	93.33	BRL	76	40-140			
C11-C22 Aromatics	110	12	mg/kg dry	198.3	BRL	56	40-140			
Surrogate: 1-Chlorooctadecane	1.81		mg/kg dry	2.333		78	40-140			
Surrogate: o-Terphenyl	1.37		mg/kg dry	2.333		59	40-140			
Surrogate: 2-Fluorobiphenyl	3.75		mg/kg dry	4.667		80	40-140			
Surrogate: 2-Bromonaphthalene	3.65		mg/kg dry	4.667		78	40-140			



Hart & Hickman (Raleigh)
Attn: Timothy Klotz
3334 Hillsborough St.
Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2070026
Time Submitted: 7/2/2012 1:50:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P2G0097 - MADEP EPH (S)

Matrix Spike Dup (P2G0097-MSD1)	Source: 2070026-01			Prepared: 07/06/12		Analyzed: 07/10/12				
C9-C18 Aliphatics	35.1	12	mg/kg dry	70.34	BRL	50	40-140	13	50	
C19-C36 Aliphatics	62.3	12	mg/kg dry	93.79	BRL	66	40-140	13	50	
C11-C22 Aromatics	128	12	mg/kg dry	199.3	BRL	64	40-140	15	50	
Surrogate: 1-Chlorooctadecane	1.50		mg/kg dry	2.345		64	40-140			
Surrogate: o-Terphenyl	1.49		mg/kg dry	2.345		63	40-140			
Surrogate: 2-Fluorobiphenyl	4.19		mg/kg dry	4.690		89	40-140			
Surrogate: 2-Bromonaphthalene	4.08		mg/kg dry	4.690		87	40-140			



Hart & Hickman (Raleigh)
 Attn: Timothy Klotz
 3334 Hillsborough St.
 Raleigh, NC 27607

Project: 725 S. Elm St.

Prism Work Order: 2070026
 Time Submitted: 7/2/2012 1:50:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P2G0052 - NO PREP

Blank (P2G0052-BLK1) Prepared & Analyzed: 07/03/12

% Solids	100	0.100	% by Weight							
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Duplicate (P2G0052-DUP1) Source: 2070026-01 Prepared & Analyzed: 07/03/12

% Solids	81.8	0.100	% by Weight		84.2			3	20	
----------	------	-------	-------------	--	------	--	--	---	----	--

Sample Extraction Data

Prep Method: MADEP EPH (S)

Lab Number	Batch	Initial	Final	Date/Time
2070026-01	P2G0097	10.03 g	2 mL	07/06/12 10:00
2070026-01	P2G0097	10.03 g	2 mL	07/06/12 10:00
2070026-02	P2G0097	10.12 g	2 mL	07/06/12 10:00
2070026-02	P2G0097	10.12 g	2 mL	07/06/12 10:00
2070026-03	P2G0097	10.13 g	2 mL	07/06/12 10:00
2070026-03	P2G0097	10.13 g	2 mL	07/06/12 10:00

Prep Method: 3550C MS

Lab Number	Batch	Initial	Final	Date/Time
2070026-01	P2G0076	30.09 g	1 mL	07/05/12 10:00
2070026-02	P2G0076	30.07 g	1 mL	07/05/12 10:00
2070026-03	P2G0076	30.12 g	1 mL	07/05/12 10:00

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
2070026-01	P2G0089	6.46 g	5 mL	07/05/12 13:30
2070026-02	P2G0089	7.02 g	5 mL	07/05/12 13:30
2070026-03	P2G0089	6.65 g	5 mL	07/05/12 13:30

Prep Method: MADEP VPH (S)

Lab Number	Batch	Initial	Final	Date/Time
2070026-01	P2G0058	15 g	16 mL	07/03/12 15:22
2070026-02	P2G0058	15 g	16 mL	07/03/12 15:22
2070026-03	P2G0058	6.072 g	5 mL	07/03/12 15:22

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CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____
 Project Name: 725 S. Elm St.
 Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
 *Please ATTACH any project specific reporting Level II provisions and/or QC Requirements
 Invoice To: H+H
 Address: _____

LAB USE ONLY			
	YES	NO	N/A
Samples INTACT upon arrival?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received ON WET ICE? Temp <u>5.0</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER PRESERVATIVES indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received WITHIN HOLDING TIMES?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CUSTODY SEALS INTACT?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOLATILES rec'd W/OUT HEADSPACE?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PROPER CONTAINERS used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Full Service Analytical & Environmental Solutions
 449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
 Client Company Name: Hart + Hickman
 Report To/Contact Name: T. Klotz, L. Moretz
 Reporting Address: 3334 Hillsborough St. Raleigh NC 27607
 Phone: 919-847-4241 Fax (Yes) (No): _____
 Site Location Name: 725 S. Elm St.
 Site Location Physical Address: Greensboro NC

Purchase Order No./Billing Reference GRN-011
 Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
 6-9 Days Standard 10 days
 Samples received after 15:00 will be processed next business day.
 Turnaround time is based on business days, excluding weekends and holidays.
 (SEE REVERSE SIDE FOR RUSH TURNAROUND FEES)

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
 Certification: NELAC _____ USACE _____ FL _____ NC _____
 SC _____ OTHER _____ N/A _____
 Water Chlorinated: YES _____ NO _____
 Sample Iced Upon Collection: YES _____ NO _____

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED				REMARKS	SUB LAB CERT. ID NO.	PRISM LAB ID NO.	
				*TYPE SEE BELOW	NO.	SIZE		VOCs by 8200	SVOCs by 8210	VOCs by 8210	VOCs by 8210				VOCs by 8210
SS-11	6-29-12	1045	Soil	G	8	40mL, 4oz	Meth. Sod. Bic.	X							φ1
SS-11 MS/MSD	6-29-12	1045	Soil	G	8	40mL, 4oz	Meth. Sod. Bic.	X							φ1
SS-12	6-29-12	1020	Soil	G	8	40mL, 4oz	Meth. Sod. Bic.	X							φ2
SS-DVP 3	6-29-12	—	Soil	G	8	40mL, 4oz	Meth. Sod. Bic.	X							φ3

Sampler's Signature [Signature] Sampled By (Print Name) Timothy Klotz Affiliation H+H
 Relinquished By: (Signature) [Signature] Received By: (Signature) [Signature] Date 6/29/12 Military/Hours 16:45
 Relinquished By: (Signature) [Signature] Received By: (Signature) [Signature] Date 7/2/12 Military/Hours 13:50
 Relinquished By: (Signature) [Signature] Received For Prism Laboratories By: [Signature] Date 7-2-12 Military/Hours 1350
 Method of Shipment: Fed Ex UPS Hand-delivered Prism Field Service Other
 Log-in Group No. 24774260

PRESS DOWN FIRMLY - 3 COPIES

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

- NPDES: NC SC
- UST: NC SC
- GROUNDWATER: NC SC
- DRINKING WATER: NC SC
- SOLID WASTE: NC SC
- RCRA: NC SC
- CERCLA: NC SC
- LANDFILL: NC SC
- OTHER: NC SC

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS
 ORIGINAL

Appendix E

NCDENR Limited Site Assessment Risk Classification and Land Use Form

Limited Site Assessment Risk Classification and Land Use Form

Part I – Groundwater/Surface Water/Vapor Impacts

High Risk

- 1. Has the release contaminated any water supply well including any well used for non-drinking purposes? **NO**
- 2. Is a water supply well used for drinking water located within 1,000 feet of the source area of the release? **NO**
- 3. Is a water supply well not used for drinking water (e.g., irrigation, washing cars, industrial cooling water, filling swimming pools) located within 250 feet of the source area of the release? **NO**
- 4. Does groundwater within 500 feet of the source area of the release have the potential for future use (there is no other source of water supply other than the groundwater)? **NO**
- 5. Do vapors from the release pose a threat of explosion because of accumulation of the vapors in a confined space or pose any other serious threat to public health, public safety or the environment? **NO**
If yes, describe.

- 6. Are there any other factors that would cause the release to pose an imminent danger to public health, public safety, or the environment? **NO**
If yes, describe.

Intermediate Risk

- 7. Is a surface water body located within 500 feet of the source area of the release? **NO**

If **YES**, does the maximum groundwater contaminant concentration exceed the surface water quality standards and criteria found in 15A NCAC 2B .0200 by a factor of 10? **N/A**
- 8. Is the source area of the release located within an approved or planned wellhead protection area as defined in 42 USC 300h-7(e)? **NO**
If yes, describe.

- 9. Is the release located in the Coastal Plain physiographic region as designated on a map entitled “Geology of North Carolina” published by the Department in 1985? **NO**

If **YES**, is the source area of the release located in an area in which there is recharge to an unconfined or semi-confined deeper aquifer that is being used or may be used as a source of drinking water? **N/A**
If **YES**, describe.

- 10. Do the levels of groundwater contamination for any contaminant exceed the gross contamination levels (see Table 9) established by the Department? **NO**

Part II - Land Use

Property Containing Source Area of Release

The questions below pertain to the property containing the source area of the release.

- 1. Does the property contain one or more primary or secondary residences (permanent or temporary)? **NO**
Describe.
_____The site is currently a vacant lot._____

2. Does the property contain a school, daycare center, hospital, playground, park, recreation area, church, nursing home, or other place of public assembly? **NO**
Describe.

3. Does the property contain a commercial (e.g., retail, warehouse, office/business space, etc.) or industrial (e.g., manufacturing, utilities, industrial research and development, chemical/petroleum bulk storage, etc.) enterprise, an inactive commercial or industrial enterprise, or is the land undeveloped? **YES**
Describe.
_____ The site is currently a vacant lot.
Do children visit the property? **YES**
Explain.
_____ The site is currently a vacant lot, so children could potential visit the site.
Is access to the property reliably restricted consistent with its use (e.g., by fences, security personnel or both)? **NO**
Explain.
_____ There are no mechanisms currently in place to restrict access to the site.

4. Do pavement, buildings, or other structures cap the contaminated soil? **NO**
Describe.

- If yes, what mechanisms are in place or can be put into place to ensure that the contaminated soil will remain capped in the foreseeable future?

5. What is the zoning status of the property?
_____ The site is classified as CD-CB (central business district)

6. Is the use of the property likely to change in the next 20 years? **YES**
Explain.
_____ The site is planned for redevelopment as a commercial property.

Property Surrounding Source Area of Release

The questions below pertain to the area within 1,500 feet of the source area of the release (excludes property containing source area of the release):

1. What is the distance from the source area of the release to the **nearest** primary or secondary residence (permanent or temporary)?
_____ The nearest residence is located approximately 425 feet southeast of the site.
2. What is the distance from the source area of the release to the **nearest** school, daycare center, hospital, playground, park, recreation area, church, nursing home or other place of public assembly?
_____ Healthserve Community Health Clinic is located approximately 775 ft west of the site.
3. What is the zoning status of properties in the surrounding area?
_____ The properties surrounding the site are classified as CD-CB (central business district).

4. Briefly characterize the use and activities of the land in the surrounding area.
_____ A vacant building is located west of the site. Vacant lots are located north, east, and south of the site.

Appendix F
Receptor Survey Forms

Receptor Survey

A release of petroleum product or other regulated material has occurred within 1500 feet of the property receiving this survey. This survey is being conducted as part of the investigation of the release as required by the State of North Carolina in Title 15A North Carolina Administrative Code 2L.0405.

Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 620 S. Elm St.
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water / Water Supply Well / Stream Intake / Other
 (please explain below) water meter observed

Is there a water supply well on this property? Yes/ No If "No" disregard remaining questions and return survey
Not observed

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

Please return completed survey to **Hart & Hickman, PC** by _____ using one of the following methods:

1. Fax to 919-847-4261
2. Mail to Hart & Hickman, PC 3334 Hillsborough Street, Raleigh, NC 27607
3. Telephone 919-847-4241
4. E-mail to tklotz@harthickman.com

If you have any questions, please contact the consultant above or the NC DENR, Division of Waste Management, UST Section Raleigh Regional Office at (919) 791-4200

Receptor Survey

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey _____

Address of property receiving survey _____

629 S. Elm

City Greensboro

County Guilford

What is the source of drinking water for this property? Public Water Water Supply Well/ Stream Intake/ Other
 (please explain below) Water meter observed

Is there a water supply well on this property? Yes No Not observed If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well _____

How many water supply wells are on this property? _____

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____

Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)? _____

How deep is the well(s)? _____

Date well was installed? _____

What is the casing depth of the well(s)? _____

What is the screen interval of the well(s)? _____

Additional water supply well information: _____

(This part to be completed by Responsible Party or their representative)

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey

631 S. Elm St.

City Greensboro

County Guilford

What is the source of drinking water for this property? Public Water Water Supply Well/ Stream Intake/ Other
 (please explain below) Water meter observed

Is there a water supply well on this property? Yes No If "No" disregard remaining questions and return survey

Not observed

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____

Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)?

Date well was installed?

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey

633 S. Elm

City Greensboro

County Guilford

What is the source of drinking water for this property? **Public Water/ Water Supply Well/ Stream Intake/ Other**
 (please explain below) N/A - Parking lot

Is there a water supply well on this property? Yes No Not observed If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) **Drinking** _____ **Irrigation** _____ **Swimming Pool** _____
Water Livestock _____ **Other (specify)** _____ **Well not used** _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)?

Date well was installed?

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 635 S. Elm
 City Greensboro County Guilford

What is the source of drinking water for this property? **Public Water/ Water Supply Well/ Stream Intake/ Other**
 (please explain below) N/A - Parking lot

Is there a water supply well on this property? Yes/ No Not observed If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) **Drinking** _____ **Irrigation** _____ **Swimming Pool** _____
Water Livestock _____ **Other (specify)** _____ **Well not used** _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

Please return completed survey to **Hart & Hickman, PC** by _____ using one of the following methods:

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 700 S. Elm St.
 City Greensboro County Guilford

What is the source of drinking water for this property? **Public Water/ Water Supply Well/ Stream Intake/ Other**
 (please explain below) N/A - vacant lot

Is there a water supply well on this property? Yes/ No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) **Drinking** _____ **Irrigation** _____ **Swimming Pool** _____
Water Livestock _____ **Other (specify)** _____ **Well not used** _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
(The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 702-714 S. Elm St.
City Greensboro County Guilford

What is the source of drinking water for this property? Public Water/ Water Supply Well/ Stream Intake/ Other (please explain below)
NA - vacant lot

Is there a water supply well on this property? Yes No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking Irrigation Swimming Pool
Water Livestock Other (specify) Well not used

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 724 S. Elm
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water Water Supply Well/ Stream Intake/ Other
 (please explain below) Water meter observed
Vacant Building

Is there a water supply well on this property? Yes/ No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking Irrigation Swimming Pool
 Water Livestock Other (specify) Well not used

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
(The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 727 S. Elm St.
City Greensboro County Guilford

What is the source of drinking water for this property? Public Water/ Water Supply Well/ Stream Intake/ Other (please explain below) NA - vacant lot

Is there a water supply well on this property? Yes No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

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Receptor Survey

A release of petroleum product or other regulated material has occurred within 1500 feet of the property receiving this survey. This survey is being conducted as part of the investigation of the release as required by the State of North Carolina in Title 15A North Carolina Administrative Code 2L.0405.

Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 728 S. Elm St.
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water/ Water Supply Well/ Stream Intake/ Other
 (please explain below) NA - Vacant lot

Is there a water supply well on this property? Yes No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 730 S. Elm St.
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water/ Water Supply Well/ Stream Intake/ Other
 (please explain below) NA - vacant lot

Is there a water supply well on this property? Yes No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

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Receptor Survey

A release of petroleum product or other regulated material has occurred within 1500 feet of the property receiving this survey. This survey is being conducted as part of the investigation of the release as required by the State of North Carolina in Title 15A North Carolina Administrative Code 2L.0405.

Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey _____

Address of property receiving survey 734 S. Elm St.

City Greensboro County Guilford

What is the source of drinking water for this property? Public Water / Water Supply Well / Stream Intake / Other
 (please explain below) NA - vacant building + lot

Is there a water supply well on this property? Yes No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well _____

How many water supply wells are on this property? _____

What is the well(s) used for? (check all that apply) Drinking Irrigation Swimming Pool
 Water Livestock Other (specify) _____ Well not used

How many residents are connected to the well(s) (list addresses)? _____

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)? _____

What is the screen interval of the well(s)? _____

Additional water supply well information: _____

(This part to be completed by Responsible Party or their representative)

Please return completed survey to **Hart & Hickman, PC** by _____ using one of the following methods:

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Receptor Survey

A release of petroleum product or other regulated material has occurred within 1500 feet of the property receiving this survey. This survey is being conducted as part of the investigation of the release as required by the State of North Carolina in Title 15A North Carolina Administrative Code 2L.0405.

Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 741 S. Elm St.
 City Greensboro County Guilford

What is the source of drinking water for this property? **Public Water/ Water Supply Well/ Stream Intake/ Other**
 (please explain below) NA - vacant lot

Is there a water supply well on this property? Yes/ No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) **Drinking** _____ **Irrigation** _____ **Swimming Pool** _____
Water Livestock _____ **Other (specify)** _____ **Well not used** _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

Please return completed survey to **Hart & Hickman, PC** by _____ using one of the following methods:

1. Fax to 919-847-4261
2. Mail to Hart & Hickman, PC 3334 Hillsborough Street, Raleigh, NC 27607
3. Telephone 919-847-4241
4. E-mail to tklotz@harthickman.com

If you have any questions, please contact the consultant above or the NC DENR, Division of Waste Management, UST Section Raleigh Regional Office at (919) 791-4200

Receptor Survey

A release of petroleum product or other regulated material has occurred within 1500 feet of the property receiving this survey. This survey is being conducted as part of the investigation of the release as required by the State of North Carolina in Title 15A North Carolina Administrative Code 2L.0405.

Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 801 S. Elm St.
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water / Water Supply Well/ Stream Intake/ Other
 (please explain below) Water meter observed

Is there a water supply well on this property? Yes No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 811 S. Elm St.
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water / Water Supply Well / Stream Intake / Other
 (please explain below) Water meter observed

Is there a water supply well on this property? Yes No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking Irrigation Swimming Pool
 Water Livestock Other (specify) Well not used

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)? _____

What is the screen interval of the well(s)? _____

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 816 S. Elm St.
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water / Water Supply Well / Stream Intake / Other
 (please explain below) water meter observed

Is there a water supply well on this property? Yes No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking Irrigation Swimming Pool
 Water Livestock Other (specify) Well not used

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 107 W. Bragg St.
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water/ Water Supply Well/ Stream Intake/ Other (please explain below) NA - vacant lot

Is there a water supply well on this property? Yes No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey

108-110 E. Bragg st.

City Greensboro

County Guilford

What is the source of drinking water for this property? Public Water / Water Supply Well / Stream Intake / Other
 (please explain below) Water meter observed

Is there a water supply well on this property? No ^{Not observed} If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____

Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)?

Date well was installed?

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 116 E Bragg St.
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water Water Supply Well/ Stream Intake/ Other
 (please explain below) water meter observed

Is there a water supply well on this property? Yes/ No Not observed If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 118 E. Bragg St.
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water/ Water Supply Well/ Stream Intake/ Other (please explain below) N/A - Yard for adjoining property

Is there a water supply well on this property? Yes/ No Not observed If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 507 Arlington St.
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water Water Supply Well/ Stream Intake/ Other
 (please explain below) Water Meter observed

NOT observed

Is there a water supply well on this property? Yes No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 508 Arlington St
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water/ Water Supply Well/ Stream Intake/ Other (please explain below) N/A - cell tower

Is there a water supply well on this property? Yes No Not observed If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey _____

Address of property receiving survey 518 Arlington St.
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water/ Water Supply Well/ Stream Intake/ Other
 (please explain below) NA - vacant lot

Is there a water supply well on this property? Yes/ No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well _____

How many water supply wells are on this property? _____

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)? _____

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)? _____

What is the screen interval of the well(s)? _____

Additional water supply well information: _____

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Incident Number:	Incident Name: 725 S. Elm Street UST site <small>(The above information to be completed by Responsible Party or their representative)</small>
Please Provide the Following Information (to the best of your knowledge)	
Name and telephone number of person completing the survey	
Address of property receiving survey <u>520 Arlington St.</u>	
City Greensboro	County Guilford
What is the source of drinking water for this property? Public Water/ Water Supply Well/ Stream Intake/ Other (please explain below) <u>NA - vacant lot</u>	
Is there a water supply well on this property? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If "No" disregard remaining questions and return survey	
Name and address of owner(s) of the property with water supply well	
How many water supply wells are on this property?	
What is the well(s) used for? (check all that apply) Drinking <input type="checkbox"/> Irrigation <input type="checkbox"/> Swimming Pool <input type="checkbox"/> Water Livestock <input type="checkbox"/> Other (specify) <input type="checkbox"/> Well not used <input type="checkbox"/>	
How many residents are connected to the well(s) (list addresses)?	
How deep is the well(s)?	
Date well was installed?	
What is the casing depth of the well(s)?	
What is the screen interval of the well(s)?	
Additional water supply well information:	
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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 524 Arlington St.
 City Greensboro County Guilford

What is the source of drinking water for this property? **Public Water/ Water Supply Well/ Stream Intake/ Other**
 (please explain below) NA - vacant lot

Is there a water supply well on this property? Yes No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) **Drinking** _____ **Irrigation** _____ **Swimming Pool** _____
Water Livestock _____ **Other (specify)** _____ **Well not used** _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 604 Arlington St.
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water / Water Supply Well / Stream Intake / Other
 (please explain below) Water meter observed

Is there a water supply well on this property? Yes No Not observed
 If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey

612 Arlington

City Greensboro

County Guilford

What is the source of drinking water for this property? Public Water / Water Supply Well / Stream Intake / Other
 (please explain below) Water meter observed

Is there a water supply well on this property? Yes No Not observed If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)?

Date well was installed?

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What is the screen interval of the well(s)?

Additional water supply well information:

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 121 W. Lee St.
 City Greensboro County Guilford

What is the source of drinking water for this property? **Public Water/ Water Supply Well/ Stream Intake/ Other**
 (please explain below) N/A - Vacant lot

Is there a water supply well on this property? Yes No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) **Drinking** _____ **Irrigation** _____ **Swimming Pool** _____
Water Livestock _____ **Other (specify)** _____ **Well not used** _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 123 W. Lee St.
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water/ Water Supply Well/ Stream Intake/ Other
 (please explain below) N/A - Vacant lot

Is there a water supply well on this property? Yes No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

Please return completed survey to **Hart & Hickman, PC** by _____ using one of the following methods:

1. Fax to 919-847-4261
2. Mail to Hart & Hickman, PC 3334 Hillsborough Street, Raleigh, NC 27607
3. Telephone 919-847-4241
4. E-mail to tklotz@harthickman.com

If you have any questions, please contact the consultant above or the NC DENR, Division of Waste Management, UST Section Raleigh Regional Office at (919) 791-4200

Receptor Survey

A release of petroleum product or other regulated material has occurred within 1500 feet of the property receiving this survey. This survey is being conducted as part of the investigation of the release as required by the State of North Carolina in Title 15A North Carolina Administrative Code 2L.0405.

Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 125 W. Lee St.
 City Greensboro County Guilford

What is the source of drinking water for this property? **Public Water/ Water Supply Well/ Stream Intake/ Other**
 (please explain below) NA - Vacant lot

Is there a water supply well on this property? Yes/ No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) **Drinking** _____ **Irrigation** _____ **Swimming Pool** _____
Water Livestock _____ **Other (specify)** _____ **Well not used** _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 104 E. Lee St
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water/ Water Supply Well/ Stream Intake/ Other
 (please explain below) NA - vacant lot

Is there a water supply well on this property? Yes/ No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 111/113 E. Lee St
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water / Water Supply Well/ Stream Intake/ Other
 (please explain below) Water Meter observed

Is there a water supply well on this property? Yes No Not observed If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

Please return completed survey to **Hart & Hickman, PC** by _____ using one of the following methods:

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2. Mail to Hart & Hickman, PC 3334 Hillsborough Street, Raleigh, NC 27607
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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 117 E. Lee St.
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water Water Supply Well/ Stream Intake/ Other
 (please explain below) Water meter observed
Vacant lot

Is there a water supply well on this property? Yes/ No not observed If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

Please return completed survey to **Hart & Hickman, PC** by _____ using one of the following methods:

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 123 E. Lee St.
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water / Water Supply Well / Stream Intake / Other
 (please explain below) water meter observed

Is there a water supply well on this property? Yes/ No Not observed If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

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<p>A release of petroleum product or other regulated material has occurred within 1500 feet of the property receiving this survey. This survey is being conducted as part of the investigation of the release as required by the State of North Carolina in Title 15A North Carolina Administrative Code 2L.0405.</p>	
<p>Incident Number:</p>	<p>Incident Name: 725 S. Elm Street UST site</p>
<p>(The above information to be completed by Responsible Party or their representative)</p>	
<p>Please Provide the Following Information (to the best of your knowledge)</p>	
<p>Name and telephone number of person completing the survey</p>	
<p>Address of property receiving survey <u>124 E. Lee St.</u></p>	
<p>City Greensboro</p>	<p>County Guilford</p>
<p>What is the source of drinking water for this property? Public Water/ Water Supply Well/ Stream Intake/ Other (please explain below) <u>N/A - vacant lot</u></p>	
<p>Is there a water supply well on this property? Yes/<input checked="" type="radio"/> No If "No" disregard remaining questions and return survey</p>	
<p>Name and address of owner(s) of the property with water supply well</p>	
<p>How many water supply wells are on this property?</p>	
<p>What is the well(s) used for? (check all that apply) Drinking <input type="checkbox"/> Irrigation <input type="checkbox"/> Swimming Pool <input type="checkbox"/> Water Livestock <input type="checkbox"/> Other (specify) <input type="checkbox"/> Well not used <input type="checkbox"/></p>	
<p>How many residents are connected to the well(s) (list addresses)?</p>	
<p>How deep is the well(s)?</p>	
<p>Date well was installed?</p>	
<p>What is the casing depth of the well(s)?</p>	
<p>What is the screen interval of the well(s)?</p>	
<p>Additional water supply well information:</p>	
<p>(This part to be completed by Responsible Party or their representative)</p>	
<p>Please return completed survey to Hart & Hickman, PC by _____ using one of the following methods:</p>	
<p>1. Fax to 919-847-4261</p>	
<p>2. Mail to Hart & Hickman, PC 3334 Hillsborough Street, Raleigh, NC 27607</p>	
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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 200 E. Lee St.
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water/ Water Supply Well/ Stream Intake/ Other
 (please explain below) N/A - Lot under construction

Is there a water supply well on this property? Yes No Not observed
 If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey _____

Address of property receiving survey 224 E. Lee St.
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water/ Water Supply Well/ Stream Intake/ Other (please explain below)
NA - Vacant lot

Is there a water supply well on this property? Yes No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well _____

How many water supply wells are on this property? _____

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)? _____

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)? _____

What is the screen interval of the well(s)? _____

Additional water supply well information: _____

(This part to be completed by Responsible Party or their representative)

Please return completed survey to **Hart & Hickman, PC** by _____ using one of the following methods:

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 1005 S. Eugene St.
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water / Water Supply Well / Stream Intake / Other
 (please explain below) Public water meter observed
Vacant Building

Is there a water supply well on this property? Yes/ No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

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Incident Number: _____ **Incident Name:** 725 S. Elm Street UST site
 (The above information to be completed by Responsible Party or their representative)

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey

Address of property receiving survey 1015 S. Eugen St.
 City Greensboro County Guilford

What is the source of drinking water for this property? Public Water/ Water Supply Well/ Stream Intake/ Other
 (please explain below) NA - Vacant lot

Is there a water supply well on this property? Yes No If "No" disregard remaining questions and return survey

Name and address of owner(s) of the property with water supply well

How many water supply wells are on this property?

What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____
 Water Livestock _____ Other (specify) _____ Well not used _____

How many residents are connected to the well(s) (list addresses)?

How deep is the well(s)? _____ Date well was installed? _____

What is the casing depth of the well(s)?

What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

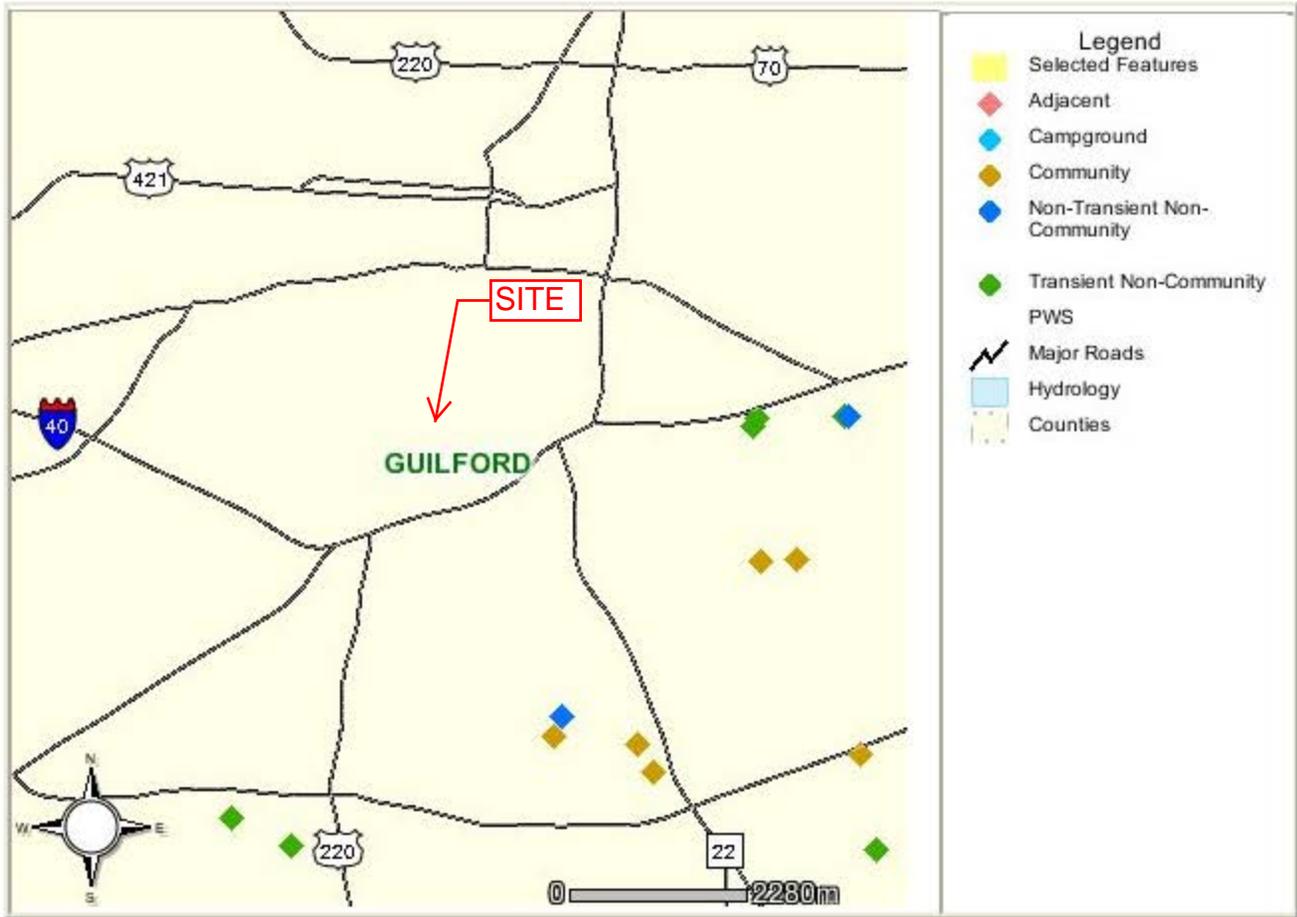
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Appendix G

NCDENR ArcIMS Viewer Wellhead Protection Area Map



Appendix H

Monitoring Well Abandonment and Construction Records

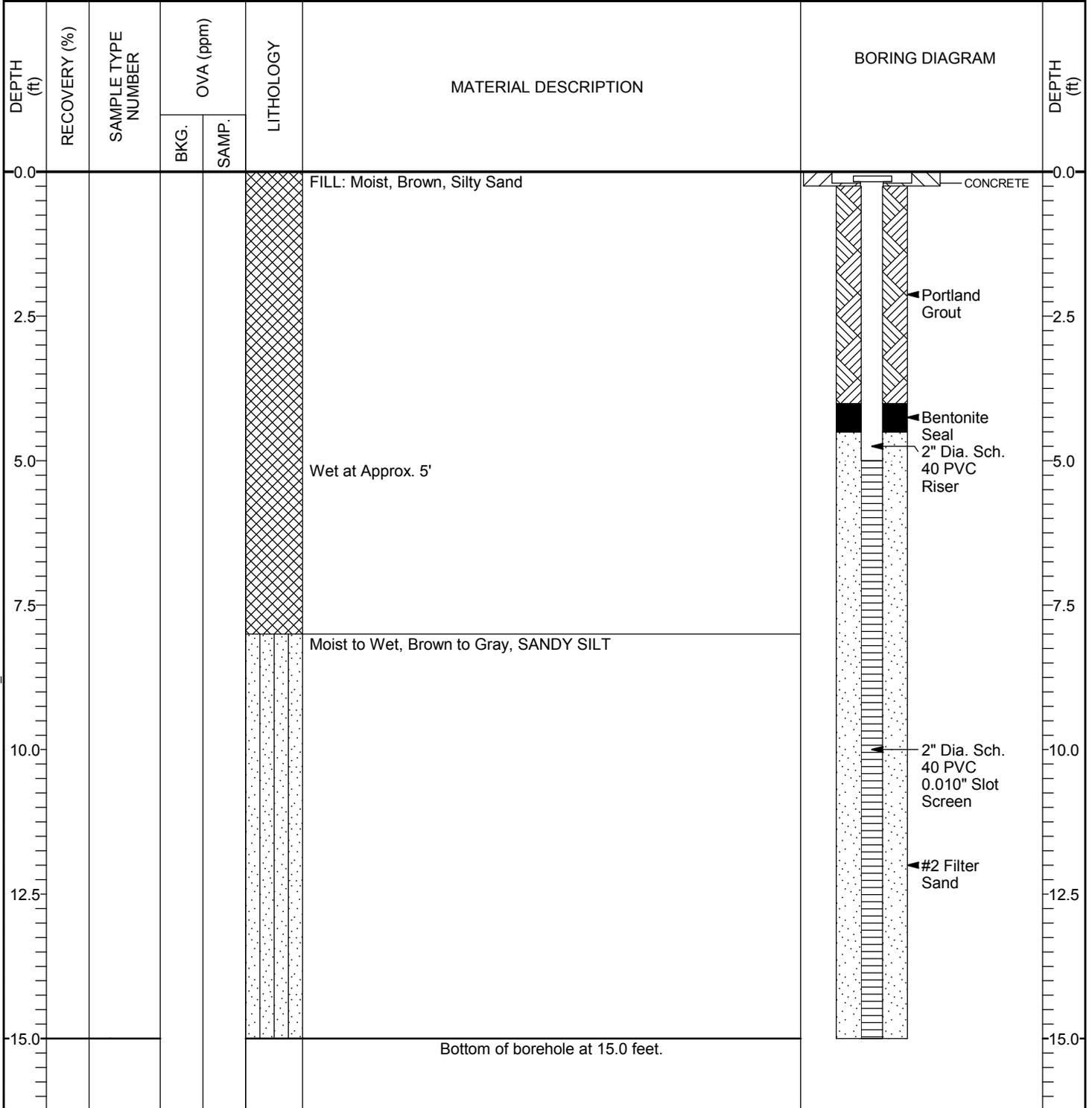


BORING NUMBER MW-1A

2923 South Tryon Street-Suite 100
 Charlotte, North Carolina 28203
 704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
 Raleigh, North Carolina 27607
 919-847-4241(p) 919-847-4261(f)

PROJECT: 725 S. Elm Street Site
JOB NUMBER: GRN-011
LOCATION: Greensboro, NC



BORING LOG - HART HICKMAN.GDT - 7/26/12 14:08 - S:\AAA-MASTER GINT PROJECTS\GRN-011_725 S ELM.GPJ

DRILLING CONTRACTOR: SAEDACCO
DRILL RIG/ METHOD: Gus Pech / HSA
SAMPLING METHOD: Auger Cuttings
LOGGED BY: TAK
DRAWN BY: TAK

BORING STARTED: 7/13/12
BORING COMPLETED: 7/13/12
TOTAL DEPTH: 15 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks: