Brownfields Assessment Grant Profile

City of Atlanta Planning and Community Development

Grant ID: 69601211.

Cooperative Agreement #: BF00D12413

More Details on Grant Awarded

Brownfields Grant Fact Sheet

This profile provides a summary of basic grant information and the accomplishments reported to the US EPA by a Brownfields Help*Human Exposure Under Control*Abandoned, idled, or under used industrial and commercial facilities/sites where expansion or redevelopment is complicated by real or perceived environmental contamination. They can be in urban, suburban, or rural areas. EPA's Brownfields initiative helps communities mitigate potential health risks and restore the economic viability of such areas or properties. grant recipient.

Legal Notices

On this page:

- Profile Information
- Cooperative Agreement Contact
- Properties Addressed By This Cooperative Agreement
- Assessment Activities

- Cleanup Activities
- Institutional & Engineering Controls
- Redevelopment and Other Leveraged Accomplishments

Profile Information

Recipient Name	**City of Atlanta Planning and Community Development**
Cooperative Agreement #	**BF00D12413**
State	**GA**
Cooperative Agreement Type	**Assessment**
Announcement Year	**FY13**
Award Date	**09/26/2013**
Initial Project Period	**10/01/2013 to 09/30/2016**
Current POP End Date	
Status	**Open**
Funding Source	**Regionally Funded**
Total Funded	**$400,000.00**
Funding Type	**Hazardous**

Cooperative Agreement Contact

Primary Contact Name	**Brian Gross**
Primary Contact Email	**Gross.Brian@epa.gov**
Primary Contact Phone	**(404) 562-8604**

Properties Addressed By This Cooperative Agreement

Go

Property Name	Address	Property Page Link
1055 Arden Ave	1055 Arden Avenue SW Atlanta, GA 30310-4110	Open
1071 and 1085 Donald Lee Hollowell	1085 Donald Lee Hollowell ATLANTA, GA 30318	Open
1195 Sylvan Road	1195 Sylvan Road ATLANTA, GA 30310	Open
1345 Mayson Turner Road	1345 Mayson Turner RD NW Atlanta, GA 30314-2027	Open
1385 Ralph D Abernathy Trailhead	1385 Ralph D Abernathy Blvd SW ATLANTA, GA 30310	Open
1490 Boone	1490 Joseph E Boone Blvd ATLANTA, GA 30314	Open
2011 Bolton Road	2011 Bolton Road ATLANTA, GA 30318	Open
386 Elm	386 Elm Street Atlanta, GA 30318-5713	Open
787 Windsor	787 Windsor Street ATLANTA, GA 30315	Open
Bearings Bike Shop	982 Murphy Avenue SW Atlanta, GA 30310-2835	Open
Lifecycle Building Center	1116 Murphy Avenue SW ATLANTA, GA 30310	Open
Oakland City MARTA	1400 Lee Street ATLANTA, GA 30310	Open

Assessment Activities

Property Name	EPA Funding	Completion Date	Activity	Leveraged Funding
1055 Arden Ave	$7,000.00	07/14/2016	Phase I Environmental Assessment	$0.00
1055 Arden Ave	$71,880.00	07/14/2016	Phase II Environmental Assessment	$0.00
1071 and 1085 Donald Lee Hollowell	$6,000.00	05/29/2015	Phase I Environmental Assessment	$0.00
1071 and 1085 Donald Lee Hollowell	$66,160.00	09/30/2015	Phase II Environmental Assessment	$0.00
1195 Sylvan Road	$3,000.00	04/20/2015	Phase I Environmental Assessment	$0.00
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1385 Ralph D Abernathy Trailhead	$109,748.00	11/30/2015	Phase II Environmental Assessment	$0.00
1490 Boone	$3,000.00	10/22/2015	Phase I Environmental Assessment	$0.00
2011 Bolton Road	$2,750.00	10/01/2015	Phase I Environmental Assessment	$0.00
386 Elm	$3,000.00	08/25/2015	Phase I Environmental Assessment	$0.00
787 Windsor	$3,000.00	06/30/2015	Phase I Environmental Assessment	$0.00
Bearings Bike Shop	$12,000.00	09/14/2016	Phase I Environmental Assessment	$0.00

Property Name	EPA Funding	Completion Date	Activity	Leveraged Funding
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Lifecycle Building Center	$247,920.00	08/28/2015	Phase II Environmental Assessment	$0.00
Lifecycle Building Center	$58,008.00	12/31/2015	Supplemental Assessment	$0.00
Oakland City MARTA	$3,000.00	09/28/2015	Phase I Environmental Assessment	$0.00

EPA Assessment Funding: $681,614.00
Leveraged Funding: $0.00
Total Funding: $681,614.00
NOTE: Funding marked for deletion not included in totals

Cleanup Activities

Property Name	EPA Funding	Is Cleanup Required?	Completion Date	Leveraged Funding
1345 Mayson Turner Road	$0.00	No		$0.00
386 Elm	$0.00	No		$0.00
Lifecycle Building Center	$0.00	Yes		$240,000.00

Cleanup Jobs Leveraged:

Costshare Funding:
Leveraged Funding: $240,000.00
Total Funding: $240,000.00
NOTE: Funding marked for deletion not included in totals

Institutional & Engineering Controls

Property Name	Are ICs Required?	IC In Place	Are ECs Required?	EC In Place
1055 Arden Ave				
1071 and 1085 Donald Lee Hollowell		No		No
1195 Sylvan Road		No		No
1345 Mayson Turner Road	No	No	No	
1385 Ralph D Abernathy Trailhead				Yes
1490 Boone	No	No	No	No
2011 Bolton Road		No		No
386 Elm	No		No	
787 Windsor		No		No
Bearings Bike Shop	No		No	
Lifecycle Building Center		No		No
Oakland City MARTA	No		No	No

Redevelopment and Other Leveraged Accomplishments

Property Name	Start Date	Completion Date	Leveraged Funding	Acres Of Greenspace Created	Redevelopment Jobs Leveraged
1055 Arden Ave	01/03/2017		$600,000.00		
1071 and 1085 Donald Lee Hollowell	05/22/2015		$70,000.00		
1195 Sylvan Road	08/16/2018		$350,000.00		
1345 Mayson Turner Road	12/22/2016	06/01/2017	$700,000.00		
1385 Ralph D Abernathy Trailhead	06/05/2015		$145,000.00		
1490 Boone	05/11/2016		$6,000.00		
2011 Bolton Road	12/01/2015	01/01/2019	$6,300,000.00		25
386 Elm	06/01/2015	10/01/2015	$0.00		
787 Windsor	09/24/2015	07/01/2016	$150,000.00		15
Bearings Bike Shop	06/02/2017		$2,860,000.00		10
Lifecycle Building Center	09/28/2016		$3,500,000.00		10

Redevelopment Jobs Leveraged: 60
Leveraged Funding: $14,681,000.00
NOTE: Funding marked for deletion not included in totals

Date Last updated: Data on this page was last refreshed on

Contact Us to ask a question, provide feedback, or report a problem.

LAST UPDATED ON FEBRUARY 8, 2017

ECHO
Enforcement and Compliance History Online

Detailed Facility Report

Facility Summary

1055 ARDEN AVE

1055 ARDEN AVENUE SW, ATLANTA, GA 30310

FRS (Facility Registry Service) ID: 110070261923
EPA Region: 04
Latitude: 33.71703
Longitude: -84.42277
Locational Data Source: FRS
Industries:
Indian Country: N

Enforcement and Compliance Summary

Statute	Insp (5 Years)	Date of Last Inspection	Compliance Status	Qtrs with NC (Noncompliance) (of 12)	Qtrs with Significant Violation	Informal Enforcement Actions (5 years)	Formal Enforcement Actions (5 years)	Penalties from Formal Enforcement Actions (5 years)	EPA Cases (5 years)	Penalties from EPA Cases (5 years)
CWA	--	--	**No Violation Identified**	0	0	--	--	--	--	--

Regulatory Information

Clean Air Act (CAA): No Information
Clean Water Act (CWA): Minor, Permit Effective (GAR1891AA)
Resource Conservation and Recovery Act (RCRA): No Information
Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information
Greenhouse Gas Emissions (eGGRT): No Information
Toxic Releases (TRI): No Information
Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Known Data Problems

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110070261923					N	33.71703	-84.42277
ICIS-NPDES	CWA	GAR1891AA	Minor: General Permit Covered Facility	Effective	Construction Stormwater	07/31/2023	N	33.717121	-84.423221

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110070261923	1055 ARDEN AVE	1055 ARDEN AVENUE SW, ATLANTA, GA 30310	Fulton County
ICIS-NPDES	CWA	GAR1891AA	1055 ARDEN	1055 ARDEN AVE SW, ATLANTA, GA 30310	

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
No data records returned			

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
No data records returned			

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description
No data records returned		

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
No data records returned			

Enforcement and Compliance

Compliance Monitoring History (5 years)

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
No data records returned							

Entries in italics are not counted in EPA compliance monitoring strategies or annual results.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	GAR1891AA	No	06/30/2021	0	11/19/2021

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12	QTR 13+
CWA (Source ID: GAR1891AA)		07/01-09/30/18	10/01-12/31/18	01/01-03/31/19	04/01-06/30/19	07/01-09/30/19	10/01-12/31/19	01/01-03/31/20	04/01-06/30/20	07/01-09/30/20	10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-11/19/21
	Facility-Level Status	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**No Violation Identified**	**Undetermined**
	Quarterly Noncompliance Report History													

Informal Enforcement Actions (5 Years)

Statute	System	Source ID	Type of Action	Lead Agency	Date
No data records returned					

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions (5 Years)

Statute	System	Law/Section	Source ID	Action Type	Case No.	Lead Agency	Case Name	Issued/Filed Date	Settlements/Actions	Settlement/Action Date	Federal Penalty Assessed	State/Local Penalty Assessed	Penalty Amount Collected	SEP Cost	Comp Action Cost
No data records returned															

Environmental Conditions

Watershed(s)

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
030701030101	Headwaters South River		No	No		Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Aquatic Life	Fish Consumption Use	Recreation Use	Other Use
No data records returned										

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	Yes	8-Hour Ozone (2015)	Yes	1-Hour Ozone (1979); 8-Hour Ozone (2008)
Lead	No		No	

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Particulate Matter	No		Yes	PM-2.5 (1997)
Carbon Monoxide	No		No	
Sulfur Dioxide	No		No	

Pollutants

Toxics Release Inventory History of Reported Chemicals Released in Pounds per Year at Site

TRI Facility ID	Year	Total Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Releases to Land	Total On-site Releases	Total Off-site Transfers
No data records returned								

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name
No data records returned

Community

EJSCREEN EJ Indexes

Eleven primary environmental justice (EJ) indexes of EJSCREEN, EPA's screening tool for EJ concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. The index values below are for the Census block group in which the facility is located. Note that use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJSCREEN provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the EJSCREEN home page.

Census Block Group EJ Indexes (percentile)	
Particulate Matter (PM 2.5)	74.9
Ozone	73.6
NATA Diesel PM	79.7
NATA Air Toxics Cancer Risk	79.3
NATA Respiratory Hazard Index (HI)	78.6
Traffic Proximity	69.9
Lead Paint Indicator	89
National Priority List (NPL) Site Proximity	63.8
Risk Management Plan (RMP) Site Proximity	93.2
Hazardous Waste Proximity	76.3

Number of EJ Indexes Above 80th Percentile
2

View EJSCREEN Report

Census Block Group EJ Indexes (percentile)	
Wastewater Discharge Proximity	73.4

Demographic Profile of Surrounding Area (1 Mile)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2010 U.S. Census and 2014 - 2018 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary.

General Statistics	
Total Persons (U.S. Census)	9,907
Population Density	3,157/sq.mi.
Percent People of Color	90%
Households in Area	4,024
Housing Units in Area	4,894
Total Persons (ACS (American Community Survey))	11,562
Households on Public Assistance	119
Persons With Low Income	6,552
Percent With Low Income	57%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	33.71703
Center Longitude	-84.42277
Land Area	100%
Water Area	0%

Income Breakdown - Households (%)	
Less than $15,000	962 (23.9%)
$15,000 - $25,000	658 (16.35%)
$25,000 - $50,000	1,025 (25.47%)
$50,000 - $75,000	559 (13.89%)
Greater than $75,000	821 (20.4%)

Age Breakdown - Persons (%)	
Children 5 years and younger	748 (8%)
Minors 17 years and younger	2,588 (26%)
Adults 18 years and older	7,319 (74%)
Seniors 65 years and older	1,018 (10%)

Race Breakdown - Persons (%)	
White	933 (9%)
African-American	8,605 (87%)
Hispanic-Origin	203 (2%)
Asian/Pacific Islander	116 (1%)
American Indian	16 (0%)
Other/Multiracial	237 (2%)

Education Level (Persons 25 & older) - Persons (%)	
Less than 9th Grade	462 (6.16%)
9th through 12th Grade	1,107 (14.75%)
High School Diploma	2,063 (27.5%)
Some College/2-year	2,449 (32.64%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,416 (18.87%)

Property Details for 1055 Arden Ave

On this page:

- Profile Information
- Property Location
- Property Progress
- CAs Associated with this Property
- Assessment Activities at this Property
- Contaminants and Media
- Cleanup Activities
- Institutional & Engineering Controls
- Redevelopment and Other Leveraged Accomplishments
- Additional Property Attributes

Legal Notices

Profile Information

Property Alias	**1055 Arden Warehouse**
Property Owner	**Private**
ACRES Property ID	**227210**
Property Address	**1055 Arden Avenue SW Atlanta, GA 30310-4110**
Size	**1.7**
Parcel Numbers	**14-012000040234**

Latitude/Longitude	**33.7173399 / -84.422492**
Congressional District	**5**
Property Contact	**Warren, Camilla** **warren.camilla@epa.gov** **404-562-8519**

Property Location

Property Progress

Assessment	✖
Clean Up	✖
Institutional Controls in Place	

Engineering Controls in Place

Ready for Anticipated Use

Redevelopment Underway

CAs Associated with this Property

CA Name	CA #	State	Type	Announcement Year
City of Atlanta Planning & Community Development	TR95494612	GA	Area-Wide Planning	2010
City of Atlanta Planning and Community Development	BF00D12413	GA	Assessment	2013

Assessment Activities at this Property

Activity	EPA Funding	Start Date	Completion Date	CA	Accomplishment Counted?	Counted When?
Phase I Environmental Assessment	$3,500.00	05/02/2016	07/14/2016	City of Atlanta Planning and Community Development	N	

Activity	EPA Funding	Start Date	Completion Date	CA	Accomplishment Counted?	Counted When?
Phase I Environmental Assessment	$3,500.00	05/02/2016	07/14/2016	City of Atlanta Planning and Community Development	N	
Phase II Environmental Assessment	$35,940.00	05/02/2016	07/14/2016	City of Atlanta Planning and Community Development	Y	FY20
Phase II Environmental Assessment	$35,940.00	05/02/2016	07/14/2016	City of Atlanta Planning and Community Development	Y	FY20

Is Cleanup Necessary? **No**
EPA Assessment Funding: **$78,880.00**
Leveraged Funding:
Total Funding: **$78,880.00**

Contaminants and Media

Contaminant Found

Asbestos
Other Contaminants

Remediating Action for Contaminants

NOT Cleaned up
NOT Cleaned up

Media Affected

Building Materials

Remediating Action for Media

NOT Cleaned up

Cleanup Activities

There are no current cleanup activities.

Cleanup/Treatment Implemented:
Cleanup/Treatement Categories: **60**
Addl Cleanup/Treatment info:
Address of Data Source:

Institutional and Engineering Controls

Indicate whether Institutional Controls are required

Categories of Controls

Additional Institutional Controls Information

Address of Data Source (URL if available)

Are Institutional Controls in Place

Date Institutional Controls were put in place

Indicate whether Engineering Controls are required

Categories of Controls

Additional Engineering controls information

Address of Data Source (URL if available)

Indicate whether Engineering Controls are in place

Date Engineering Controls were put in place

Redevelopment and Other Leveraged Accomplishments

Start Date	Leveraged Funding	CA	Completion Date
01/03/2017	$600,000.00	City of Atlanta Planning and Community Development	

Number of Redevelopment Jobs Leveraged: **60**
Actual Acreage of Greenspace Created: **$14,681,000.00**
Leveraged Funding: **$14,681,000.00**

Additional Property Attributes

Property Highlights

This former industrial warehouse is currently vacant and underutilized. In 2007, the City rezoned the property from heavy industrial to mixed residential commercial for a proposed multi-story, multi-family development. The development never happened. However, in an effort to support a renewed interest in redeveloping the site, the City's Brownfield Program conducted a Phase I and Limited Phase II Environmental Site Assessments (ESA) in 2016. The ESAs covered surveying asbestos building materials and testing both soil and groundwater contamination concerns within the 3 industrial buildings and parking lot. Around the same time as the City's ESAs were wrapping up, a $23 million, 162-unit affordable housing development for seniors was breaking ground next door. This project has an estimated $35 million economic impacted and opened in the fall of 2018. Like the Arden brownfield property, the Gateway Capitol View Senior Living Complex was rezoned from heavy industrial to mixed use in the mid-2000s. With convenient access to MARTA and proximity to other growth areas in the Capitol View and Sylvan Hills neighborhoods, the Arden brownfield property is posed for redevelopment. The $600,000 purchase price of the property in early 2017 may be an indication that redevelopment is not too far away. It was identified as a brownfield in the 2010 City of Atlanta-U.S. EPA Brownfield Area Wide Planning study.

Former Use: Industrial warehouse.

Predominant Past Usage	**Industry (1.7)**
What types of funding are being used on this property?	**Hazardous**
State and Tribal Program Information	
Date No Further Action Letter Received	
Date Letter/Signed Report Received from a Qualified Professional	
Other Cleanup Documentation	

LAST UPDATED ON FEBRUARY 8, 2017

Brownfields Revolving Loan Fund Pilot Profile

City of Atlanta Planning and Community Development
Grant ID: 69601211
Cooperative Agreement #: BF00D12413

More Details on Grant Awarded

Brownfields Pilot Fact Sheet

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- Cooperative Agreement Contact
- Revolving Loan Fund Key Measures
- Properties Addressed By This Cooperative Agreement
- Assessment Activities
- Cleanup Activities
- Institutional & Engineering Controls
- Redevelopment and Other Leveraged Accomplishments

Profile Information

Recipient Name	**City of Atlanta Planning and Community Development**
Cooperative Agreement #	**BF00D12413**
State	**GA**
Cooperative Agreement Type	**Assessment**
Announcement Year	**FY13**
Award Date	**09/26/2013**
Initial Project Period	**10/01/2013 to 09/30/2016**
Current POP End Date	
Status	**Open**
Funding Source	**Regionally Funded**
Total Funded	**$400,000.00**
Funding Type	**Hazardous**

Cooperative Agreement Contact

Primary Contact Name	**Brian Gross**
Primary Contact Email	**Gross.Brian@epa.gov**
Primary Contact Phone	**(404) 562-8604**

Properties Addressed By This Cooperative Agreement

Property Name	Property Address	Property Profile Link
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1385 Ralph D Abernathy Trailhead	1385 Ralph D Abernathy Blvd SW ATLANTA, GA 30310	Open
1490 Boone	1490 Joseph E Boone Blvd ATLANTA, GA 30314	Open
2011 Bolton Road	2011 Bolton Road ATLANTA, GA 30318	Open
386 Elm	386 Elm Street Atlanta, GA 30318-5713	Open
787 Windsor	787 Windsor Street ATLANTA, GA 30315	Open
Bearings Bike Shop	982 Murphy Avenue SW Atlanta, GA 30310-2835	Open
Lifecycle Building Center	1116 Murphy Avenue SW ATLANTA, GA 30310	Open
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1055 Arden Ave	$71,880.00	07/14/2016	Phase II Environmental Assessment	$0.00
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1071 and 1085 Donald Lee Hollowell	$66,160.00	09/30/2015	Phase II Environmental Assessment	$0.00
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1385 Ralph D Abernathy Trailhead	$109,748.00	11/30/2015	Phase II Environmental Assessment	$0.00
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2011 Bolton Road	$2,750.00	10/01/2015	Phase I Environmental Assessment	$0.00
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Oakland City MARTA	$3,000.00	09/28/2015	Phase I Environmental Assessment	$0.00

EPA Assessment Funding: $681,614.00
Leveraged Funding: $0.00
Total Funding: $681,614.00
NOTE: Funding marked for deletion not included in totals

Cleanup Activities

Property Name	EPA Funding	Is Cleanup Required?	Completion Date	Leveraged Funding
1345 Mayson Turner Road	$0.00	No		$0.00
386 Elm	$0.00	No		$0.00
Lifecycle Building Center	$0.00	Yes		$240,000.00

Cleanup Jobs Leveraged:

Costshare Funding:
Leveraged Funding: $240,000.00
Total Funding: $240,000.00
NOTE: Funding marked for deletion not included in totals

Institutional & Engineering Controls

Property Name	Are ICs Required?	IC In Place	Are ECs Required?	EC In Place
1055 Arden Ave				
1071 and 1085 Donald Lee Hollowell		No		No
1195 Sylvan Road		No		No
1345 Mayson Turner Road	No	No	No	
1385 Ralph D Abernathy Trailhead				Yes
1490 Boone	No	No	No	No
2011 Bolton Road		No		No
386 Elm	No		No	
787 Windsor		No		No
Bearings Bike Shop	No		No	
Lifecycle Building Center		No		No
Oakland City MARTA	No		No	No

Redevelopment and Other Leveraged Accomplishments

Property Name	Start Date	Completion Date	Leveraged Funding	Acres Of Greenspace Created	Redevelopment Jobs Leveraged
1055 Arden Ave	01/03/2017		$600,000.00		
1071 and 1085 Donald Lee Hollowell	05/22/2015		$70,000.00		
1195 Sylvan Road	08/16/2018		$350,000.00		
1345 Mayson Turner Road	12/22/2016	06/01/2017	$700,000.00		
1385 Ralph D Abernathy Trailhead	06/05/2015		$145,000.00		
1490 Boone	05/11/2016		$6,000.00		
2011 Bolton Road	12/01/2015	01/01/2019	$6,300,000.00		25
386 Elm	06/01/2015	10/01/2015	$0.00		
787 Windsor	09/24/2015	07/01/2016	$150,000.00		15
Bearings Bike Shop	06/02/2017		$2,860,000.00		10
Lifecycle Building Center	09/28/2016		$3,500,000.00		10

Redevelopment Jobs Leveraged: 60
Leveraged Funding: $14,681,000.00
NOTE: Funding marked for deletion not included in totals

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LAST UPDATED ON FEBRUARY 8, 2017

Limited PHASE II ASSESSMENT

Warehouse Property 1055 Arden Avenue, SW Atlanta, Georgia

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Shaping the Future

Document Information

Prepared for	City of Atlanta, Brownfields Program
	Jessica Lavandier, Brownfields Project Manager
Project Name	Limited Phase II Assessment, Warehouse Property-1055 Arden Avenue, SW, Atlanta, Georgia
Project Number	Z0700000118
Project Manager	Gregg Stephens, P.G.
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Prepared for:

Jessica Lavandier-City of Atlanta

Brownfield Program Manager

55 Trinity Avenue, SW, Suite 3350, Atlanta, Georgia 30303-0331

Conducted Under EPA Brownfields Cooperative Agreement No. BF 00D12413-0

Prepared by:

Cardno, Inc.

2000 1st Drive, Suite 220

Marietta, Georgia 30062

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Executive Summary

The Site consists of a developed property located at 1055 Arden Avenue, SW in Atlanta, Georgia. The property is developed with:

- The site property consists of a ±1.72-acre developed parcel of land located on the northwest corner Arden Avenue, SW, and Division Place, SW in Atlanta, Fulton County, Georgia.
- Approximately two-thirds of the property contains vacant warehouse structures. Asphalt paving is throughout the remainder of the site

As part of a proposed residential development in 2007, which included the adjoining property to the west, a Prospective Purchaser Corrective Action Plan (PPCAP) was prepared by One Consulting Group for Capitol View Properties I, LLC. One Consulting Group performed soil and groundwater sampling on the site on April 23, 2007 as part of the PPCAP. Three (3) temporary groundwater monitoring wells were installed in the parking lot on the southwestern portion of the site, and soil samples were collected along the western property boundary. Groundwater analytical results detected the presence of tetrachloroethylene at 41 micrograms per liter (ug/l). Resource Conservation Recovery Act (RCRA) metals were identified in collected soil samples. Arsenic was detected at concentrations ranging from below detection limits (BDL) to 28.9 milligrams per kilogram (mg/kg). Cadmium was detected at concentrations ranging from 41.4 mg/kg to 137 mg/kg. Lead was detected at concentrations ranging from 173 to 400 mg/kg.

Subsurface Investigation

The Limited Phase II investigation conducted by Cardno, Inc., as the consultant of record for the City of Atlanta's EPA Brownfields Assessment grant, included the installation of ten (10) temporary soil borings/monitoring wells (designated SB/MW-01 thru SB/MW-10) as depicted in Figure 2. These temporary borings/wells were installed using direct-push technology (DPT). Soil and groundwater samples were collected from each boring for laboratory analyses of volatile organic compounds (VOCs) by EPA Method 8260B, semi-volatile organic compounds (SVOCs) by EPA Method 8270B, and Resource Conservation & Recovery Act (RCRA) 8 metals by EPA Method 6010C/7471B. Upon completion of soil sampling in each boring, temporary monitoring wells (designated MW-1 thru MW 10) were installed. Groundwater samples were collected from each temporary monitoring wells and submitted for laboratory analyses of VOCs, SVOCs, and RCRA metals.

Soil and groundwater concentrations are regulated under Chapter 391-3-19 of the GA EPD Hazardous Sites Response Act (HSRA). Specifically, the action levels for soil are presented in GA EPD *Soil Concentrations that Trigger Notification* (NCs). Similarly, the action levels for groundwater are presented in the GA EPD HSRA *Media Target Concentrations for Groundwater* (TCs). Soil samples indicated the presence of RCRA metals (Arsenic, Barium, Cadmium, Chromium, Lead and Mercury). However, these metal concentrations in soil were reported below the HSRA NCs. Acetone and 2-Butanone were also reported from soil samples collected at the site; however, the concentrations were below the HSRA NCs. Barium was detected in groundwater samples collected at the site. The concentrations of Barium in groundwater were reported below the HSRA TCs.

Asbestos Containing Material

Cardno, Inc. working with a subconsultant conducted an Asbestos Containing Material survey as part of the Limited Phase II Assessment. Analysis of bulk samples collected from the Buildings 1, 2, and 3, of the 1055 Arden Avenue site indicated that asbestos is present in quantities of 1% or greater in the following building components:

Building 1 (largest of the three buildings):

- 2’ x 4’ Lay-in Ceiling Tile: Approximately 5,900 square feet was observed in the receiving office, first floor offices and 2nd floor offices.
- 9” x 9” Tan Floor Tile and Mastic: Approximately 2,000 square feet was observed in the receiving office and first floor offices.
- 1’ x 1’ Grey Floor Tile and Mastic: Approximately 1,000 square feet was observed in the Northwest 2nd Floor office areas.
- 1’ x 1’ Tan Floor Tile and Mastic: Approximately 1,000 square feet was observed in the Southeast 2nd Floor office areas.
- 1’ x 1’ Grey Floor Tile and Mastic: Approximately 1,000 square feet was observed in the Southeast 1st Floor office areas.

Building 2 (middle building):

- Roofing Systems (flashings, mastics and field): Approximately 5,760 square feet of roofing materials assumed as ACM.

Building 3 (building on the end, smallest of the three):

- 1’ x 1’ Tan Floor Tile and Mastic over 9” x 9” Green Floor Tile and Mastic: Approximately 150 square feet was observed in the Main Office area.

- 9” x 9” Green Floor Tile and Mastic: Approximately 150 square feet was observed in the shop office area.
- Cement Flash Block: Approximately fourteen (14) electrical panels observed in the shop area.
- Roofing Systems (flashings, mastics and field): Approximately 5,576 square feet of roofing materials assumed as ACM.

A building owner is required under OSHA regulation to communicate information regarding the location of Asbestos Containing Material (ACM) to outside contractors, tenants and employees who occupy areas containing ACM. Subcontractors and employees working within the structures at the site should be made aware of the locations of the ACM and the possibility of concealed ACM that could be found during renovation/demolition activities in accordance with the rules and regulations of the Georgia Environmental Protection Division (EPD). In addition, a long-term maintenance plan may be required if the ACM is left in place. Proper notice must be provided to employees, tenants, contractors etc. working within these areas.

1 Introduction and Background

The site property consists of a ±1.72-acre developed parcel of land located on the northwest corner Arden Avenue, SW, and Division Place, SW in Atlanta, Fulton County, Georgia which is identified by Tax Parcel Identification Number 14 012000040234. The property is addressed as 1055 Arden Avenue, SW and is currently developed with three, industrial office warehouse, currently vacant. Approximately two-thirds of the property contains vacant warehouse structures. Asphalt paving is throughout the remainder of the site currently. The site is zoned for Mixed Residential Commercial use (MRC-3). A copy of the Tax records and zoning documentation are provided in **Appendix A**. A Site Vicinity Map is presented as **Figure 1**.

As part of a proposed property development, which included the adjoining property to the west, a Prospective Purchaser Corrective Action Plan (PPCAP) was prepared by One Consulting Group for Capitol View Properties I, LLC. Based on information contained in the PPCAP, dated September 19, 2007, historic information (city directories, Sanborn Fire Insurance Maps) were reviewed for indications of previous hazardous material use on the Property. The use of the Property was reviewed in five year intervals dating back to its vacancy and/or undeveloped state in 1955. It appears to have been largely undeveloped with nearby small residences from 1910 until approximately 1955. The Property appears in the 1955 and later historic directories, identified as the Holcombe Armature Company, an automotive motor and generator repair facility. Available historical reports are included in **Appendix B**.

The Property is listed on the Facility Index System (FINDS) database as a TRIS (Toxic Release Inventory System) facility. The TRIS is a publicly available EPA database that contains information on specific toxic chemical releases and other waste management activities reported annually by certain covered indust1y sectors as well as federal facilities. Available regulatory information indicates no recorded releases associated with this listing and, therefore it is considered administrative in nature. Furthermore, the site is not listed on any federal or state databases as either a small (SQG) or large quantity generator (LQG) of hazardous waste.

Historical information indicated the property to the west and adjacent to the site (1374 Murphy Avenue SW) has been occupied by several industrial facilities including machinery manufacturers and chemical companies. Ellison Pioneer Heddle and Reed, located at 1374 Murphy Avenue SW, was listed as an SQG. Electroplating operations were reported at this facility with an electroplating bath located on the southeast corner of this property.

One Consulting Group performed soil and groundwater sampling on the site on April 23, 2007 as part of the PPCAP. Three (3) temporary groundwater monitoring wells were installed in the parking lot on the southwestern portion of the site, and soil samples were collected along the western property boundary. Groundwater analytical results detected the presence of tetrachloroethylene at 41 micrograms per liter

(ug/l). Resource Conservation Recovery Act (RCRA) metals were identified in collected soil samples. Arsenic was detected at concentrations ranging from below detection limits (BDL) to 28.9 milligrams per kilogram (mg/kg). Cadmium was detected at concentrations ranging from 41.4 mg/kg to 137 mg/kg. Lead was detected at concentrations ranging from 173 to 400 mg/kg.

2 Limited Phase II Assessment

2.1 Soil Assessment

Cardno's investigation included the installation of ten (10) soil borings (SB-01 thru SB-10) at the site. Specifically, soil borings (designated SB-1 through SB-6) were placed along the southern and western boundary to provide the most effective area of coverage in evaluating off-site (Ellison Pioneer Heddle and Reed) environmental concerns. Additionally, soil boring (designated SB-7 through SB-10) were place inside building 1 and 3 and along the northern portion of the site to provide the most effective area of coverage in evaluating on-site (Holcombe Armature Company) environmental concerns.

The justification for soil sample collection depth was based on the nature of the contaminant of concern. Specifically, shallow soil samples (1-3 feet) were collected to evaluate metal contaminants, which migrate slowly in soil, associated with historic operations as an automotive motor and generator repair facility. Deeper soil samples (6-15 feet) were collected to evaluate impact from petroleum/solvents, which migrate more rapid in soils, as well as potential impact to groundwater.

These borings were installed by GeoLab, a Georgia-licensed drilling firm, using a truck-mounted drill rig and direct push technology (DPT). Soil samples were collected from each boring location for laboratory analyses of volatile organic compounds (VOCs) by EPA Method 8260B, semi-volatile organic compounds (SVOCs) by EPA Method 8270D and Resource Conservation & Recovery Act (RCRA) 8 metals by EPA Method 6010C and mercury by EPA Method 7471B. Soil samples were collected in accordance with the Site-Specific Quality Assurance Project Plan (SSQAPP) developed for the site.

The DPT soil borings (SB-01 through SB-10) were advanced to depths ranging from twenty (20) feet to thirty (30) feet below ground surface (BGS) and were terminated after encountering the unconfined water table. Soil samples were collected continuously from the ground surface to approximately ten (15) feet BGS. Groundwater was encountered in all borings at varying depths. Soils were field screened in each boring for the presence of organic vapors using an organic vapor analyzer (OVA). A portion of soil was collected at each sample interval and placed directly into a new, zip-style plastic bag. The pre-labeled bag was then allowed to rest at ambient room temperature (out of direct sunlight) for a minimum of fifteen (15) minutes. The OVA probe was then inserted into each bag and the maximum organic vapor measurement was recorded. To assess the surface impact of historically identified metals at the property, a surface soil sample, ranging in depth from one (1) to three (3) feet BGS, was collected for analysis at each location. Deeper soil sample intervals were selected based on the highest OVA reading. If no OVA

readings were reported, the deeper soil samples were collected above the surficial water table in the interval most likely for contaminants to occur. The soil laboratory reports are provided in the **Appendix C**. Soil Boring Logs are provided in **Appendix D**. The Soil Analytical Data is presented in **Table 1**.

2.2 Groundwater Assessment

The Limited Phase II investigation included the installation of ten (10) temporary monitoring wells (designated MW/SB-01 thru MW/SB-10) as depicted in Figure 2. Upon completion of soil sampling in each boring, new, decontaminated 1-inch diameter, flush-threaded, PVC well casing and screen (0.010" machine slotted) sections were installed through the interior of the DPT rods and a silica sandpack material was applied to the annulus of the well screen. Sandpack material was applied to a minimum of two (2) feet above each well screen and bentonite seals were placed above the sandpack.

Following completion, well development consisted of aggressive groundwater removal in each well using a peristaltic pump and dedicated polyethylene tubing. The intent of the well development was to remove suspended fines and materials resulting from the soil boring activities and to encourage formation groundwater to enter the well screens. The temporary monitoring wells were pumped dry after only one well volume. Following well development and recharge, groundwater samples were collected from the wells using a peristaltic pump and new, decontaminated tubing under "low-flow" protocol. Groundwater samples were submitted for analyses of VOCs by EPA Method 8260B, SVOCs by EPA Method 8270D and RCRA 8 metals by EPA Method 6010C and mercury by EPA Method 7470A. Groundwater samples were collected in accordance with the Site-Specific Quality Assurance Project Plan (SSQAPP) developed for the site. Subsequent to groundwater sample analysis, the temporary groundwater wells were abandon in accordance with the Georgia EPD Manual for Groundwater Monitoring, dated September 1991. The Groundwater Analytical Data is presented in **Table 2**.

2.3 Site Specific Hydrogeology

The Property lies on the United States Geological Survey (USGS) 7.5-Minute Series Topographic Map of the Southwest Atlanta, Georgia dated 1997. Based on available information, the elevation of the Property is approximately 1,030 feet above mean sea level (AMSL). Topography of the Property slopes to the northwest (Figure 1). Review of the Ground Water Pollution Susceptibility Map of Georgia, Hydrologic Atlas 20 further indicates that the Property is within the low groundwater pollution susceptibility area.

Following completion of sampling activities, the top of casing of all ten (10) temporary monitoring wells were surveyed against an arbitrary datum of 100 feet for calculation of top of well casing elevations. These elevations were then used to prepare a potentiometric surface map for the site. A Potentiometric Surface Map-June 2, 2016 is provided as Figure 3. Groundwater elevation data for the Property indicates

that groundwater flow is toward the northwest beneath the site. **Table 3** summarizes the Groundwater Elevation Data.

2.4 Asbestos Containing Material (ACM)

The facility is constructed as three separate buildings:

Building. 1 (largest of the three buildings): pre-fabricated metal siding, steel beam and bar-joists, constructed 1966, with 16,860 SF.

Building. 2 (middle building): Warehouse two-story building, constructed of poured concrete floors, bar joist and concrete masonry unit (CMU) block systems constructed 1958, 5,760 SF.

Building. 3 (building on the end, smallest of the three): Warehouse/Shop one-story constructed of poured concrete floors, bar joist and concrete masonry unit (CMU) block systems, constructed 1930 5,576 SF.

Forty-one (41) bulk samples were collected from the buildings and sixty-two (62) samples were analyzed by Polarized Light Microscopy (PLM) based on seventeen (17) homogeneous areas and the distinct number of layers (materials) associated with each bulk sample. For example, floor tile and associated mastic are collected as one bulk sample but are analyzed as two distinct materials by the asbestos laboratory, as required by to the Occupational Safety and Health Administration (OSHA). The materials that were sampled included, spray-applied insulation, 2’ x 4’ lay-in ceiling tiles, 2’ x 2’ lay-in ceiling tiles, floor tile and mastics, vinyl cove-base and mastic, stair tread and mastic, flash blocks, wire insulation, drywall and associated joint compound, and window glazing. The Asbestos Inspection Report is provided in Appendix E. Analysis of bulk samples collected from the Buildings 1, 2, and 3, of the 1055 Arden Avenue site indicated **asbestos is present in quantities of 1% or greater i**n the following building components:

Building. 1:

- 2’ x 4’ Lay-in Ceiling Tile: Approximately 5,900 square feet was observed in the receiving office, first floor offices and 2nd floor offices.
- 9” x 9” Tan Floor Tile and Mastic: Approximately 2,000 square feet was observed in the receiving office and first floor offices.
- 1’ x 1’ Grey Floor Tile and Mastic: Approximately 1,000 square feet was observed in the Northwest 2nd Floor office areas.

- 1’ x 1’ Tan Floor Tile and Mastic: Approximately 1,000 square feet was observed in the Southeast 2nd Floor office areas.
- 1’ x 1’ Grey Floor Tile and Mastic: Approximately 1,000 square feet was observed in the Southeast 1st Floor office areas.

Building. 2:

- Roofing Systems (flashings, mastics and field): Approximately 5,760 square feet of roofing materials assumed as ACM.

Building. 3:

- 1’ x 1’ Tan Floor Tile and Mastic over 9” x 9” Green Floor Tile and Mastic: Approximately 150 square feet was observed in the Main Office area.
- 9” x 9” Green Floor Tile and Mastic: Approximately 150 square feet was observed in the shop office area.
- Cement Flash Block: Approximately fourteen (14) electrical panels observed in the shop area.
- Roofing Systems (flashings, mastics and field): Approximately 5,576 square feet of roofing materials assumed as ACM.

.

3 Conclusions and Recommendations

3.1 Conclusions

The following conclusions are based on Cardno's Limited Phase II Assessment at the site:

- Approximate groundwater flow beneath the site is the northwest.
- Soil concentrations are regulated under Chapter 391-3-19 of the GA EPD Hazardous Sites Response Act (HSRA) *Soil Concentrations that Trigger Notification* (NCs). Soil samples indicated the presence of RCRA metals (Arsenic, Barium, Cadmium, Chromium, Lead and Mercury). However, these metal concentrations in soil were reported below the HSRA NCs. Acetone and 2-Butanone were also reported from soil samples collected at the site; however, the concentrations were below the HSRA NCs.
- Groundwater concentrations are regulated under Chapter 391-3-19 of the GA EPD HSRA *Media Target Concentrations for Groundwater* (TCs). Barium was detected in groundwater samples collected at the site. The concentrations of Barium in groundwater were reported below the HSRA TCs.
- Analysis of bulk samples collected from the Buildings 1, 2, and 3, of the 1055 Arden Avenue site indicated asbestos is present in quantities of 1% or greater.

3.2 Recommendations

Based on the soil and groundwater results collected as part of Cardno's Limited Phase II assessment, no additional evaluation is necessary at this time.

ACMs identified at the site, are regulated by State and Federal regulations and should be removed by a licensed asbestos abatement contractor for proper disposition if there are plans to disturb the material through demolition or renovation/construction related activities.

A building owner is required under OSHA regulation to communicate information regarding the location of ACM to outside contractors, tenants and employees who occupy areas containing ACM. Subcontractors and employees, working within the structures at the site, should be made aware of the locations of the ACM and the possibility of concealed ACM that could be found during renovation/demolition activities in accordance with the rules and regulations of the Georgia Environmental Protection Division (GEPD). In addition, a long-term maintenance plan may be required if the ACM is left in place. Proper notice must be provide to employees, tenants, contractors etc. working within these areas.

4 Certification Statement

I certify I have directed and supervised the fieldwork and preparation of this plan, in accordance with State Rules and Regulations. As a Registered Professional Geologist, I certify that I am a qualified groundwater professional. All of the information and laboratory data in this plan/report and all of the attachments are true, accurate, complete and in accordance with applicable State Rules and Regulations.

Gregg Stephens, PG
Senior Project Manager
Georgia No. 1421

7/14/16
Date

Limited Phase II Assessment, Warehouse Property-1055 Arden Ave., SW, Atlanta, Georgia

Tables

TABLE 1
Soil Analytical Data
Warehouse Property
1055 Arden Avenue
Atlanta, Fulton County, Georgia

Sample I.D.	SB-01 (1-3')	SB-01 (6')	SB-02 (1-3')	SB-02 (8')	SB-03 (1-3')	SB-03 (10')	SB-04 (1-3')	SB-04 (12)	SB-05 (1-3')	SB-05 (12')	SB-06 (1-3')	SB-06 (12')	SB-07 (1-3')	SB-07 (15')	SB-08 (1-3')	SB-08 (6')	SB-09 (1-3')	SB-09 (12')	SB-10 (1-3')	SB-10 (12')	HSRA Notification Concentrations[1]
Sample Matrix	**soil**	**soil**	**soil**	**soil**	**soil**	**soil**	**soil**	**soil**	**soil**	**soil**	**soil**	**soil**	**soil**	**soil**	**soil**	**soil**	**soil**	**soil**	**soil**	**soil**	**Soil**
Units	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Sample Date	6/1/16	6/1/16	6/1/16	6/1/16	6/1/16	6/1/16	6/1/16	6/1/16	6/1/16	6/1/16	6/1/16	6/1/16	6/1/16	6/1/16	6/1/16	6/1/16	6/2/16	6/2/16	6/2/16	6/2/16	
Arsenic	<6.19	NS	<7.39	NS	<5.64	NS	<6.66	NS	**16.5**	NS	<5.76	NS	<5.87	NS	<5.43	NS	<6.44	NS	<6.45	NS	41
Barium	**84.5**	NS	**13.5**	NS	**37.3**	NS	**30.1**	NS	**97.5**	NS	**58.2**	NS	**133**	NS	**59.2**	NS	**156**	NS	**379**	NS	500
Cadmium	<6.19	NS	<7.39	NS	<5.64	NS	**29.2**	NS	<5.94	NS	**25**	NS	<5.87	NS	**23**	NS	<6.44	NS	<6.45	NS	39
Chromium	**59.4**	NS	**19.2**	NS	**45.8**	NS	**37.6**	NS	**32.7**	NS	**55**	NS	**72.5**	NS	**24.4**	NS	**56**	NS	**65.5**	NS	1200
Lead	**18.5**	NS	**16.3**	NS	**29.2**	NS	**13.9**	NS	**80.2**	NS	**25.6**	NS	31.5	NS	**34.9**	NS	**91.3**	NS	**30.6**	NS	400
Mercury	<0.146	NS	<0.160	NS	**0.14**	NS	<0.138	NS	<0.121	NS	<0.105	NS	<0.104	NS	<0.111	NS	<0.118	NS	<0.153	NS	17
Selenium	<6.19	NS	<7.39	NS	<5.64	NS	<6.66	NS	<5.94	NS	<5.76	NS	<5.87	NS	<5.43	NS	<6.44	NS	<6.45	NS	36
Silver	<6.19	NS	<7.39	NS	<5.64	NS	<6.66	NS	<5.94	NS	<5.76	NS	<5.87	NS	<5.43	NS	<6.44	NS	<6.45	NS	10
2-Butanone (MEK)	**0.0303**	**0.0391**	**0.0548**	**0.0192**	**0.058**	**0.0241**	**0.0241**	**0.0521**	**0.0321**	**0.0514**	**0.0279**	**0.0297**	**0.0342**	<0.0133	<0.0143	**0.0368**	**0.0319**	<0.0114	**0.0387**	**0.0217**	0.79
Acetone	<0.0864	<0.0903	**0.195**	**0.0542**	**0.149**	<0.0549	**0.098**	**0.212**	**0.145**	<0.0960	**0.0555**	<0.0827	<0.0632	<0.0667	**0.217**	**0.33**	**0.3**	<0.0569	**0.0785**	<0.0608	2.74

NOTES:

Analyses performed by Xenco Laboratories

[1] Chapter 391-3-19 GEPD Rules for Hazardous Site Response

NA - Not Applicable. No standard exists for this compound

NS - Not Sampled

ND - Not Detected

--- Data Not Available

25 Indicates detection of compound greater than laboratory detection limits

TABLE 2
Groundwater Analytical Data
Warehouse Property
1055 Arden Avenue
Atlanta, Fulton County, Georgia

Sample I.D.	**MW-01**	**MW-02**	**MW-03**	**MW-04**	**MW-05**	**MW-06**	**MW-07**	**MW-08**	**MW-09**	**MW-10**	**HSRA Media Target Concentrations[1]**
Sample Matrix	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Water**
Units	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Sample Date	6/2/16	6/2/16	6/2/16	6/2/16	6/2/16	6/2/16	6/2/16	6/2/16	6/2/16	6/2/16	
Arsenic	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.01
Barium	<0.050	**0.0632**	<0.050	**0.064**	**0.0501**	**0.167**	**0.0806**	<0.050	**0.0546**	**0.132**	2
Cadmium	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.005
Chromium	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.1
Lead	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.015
Mercury	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.002
Selenium	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.05
Silver	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.1
2-Butanone (MEK)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	2
Acetone	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	4

NOTES:

Analyses performed by Xenco Laboratories

[1] Chapter 391-3-19 GEPD Rules for Hazardous Site Response

NA - Not Applicable. No standard exists for this compound

ND - Not Detected

--- Data Not Available

25 Indicates detection of compound greater than laboratory detection limits

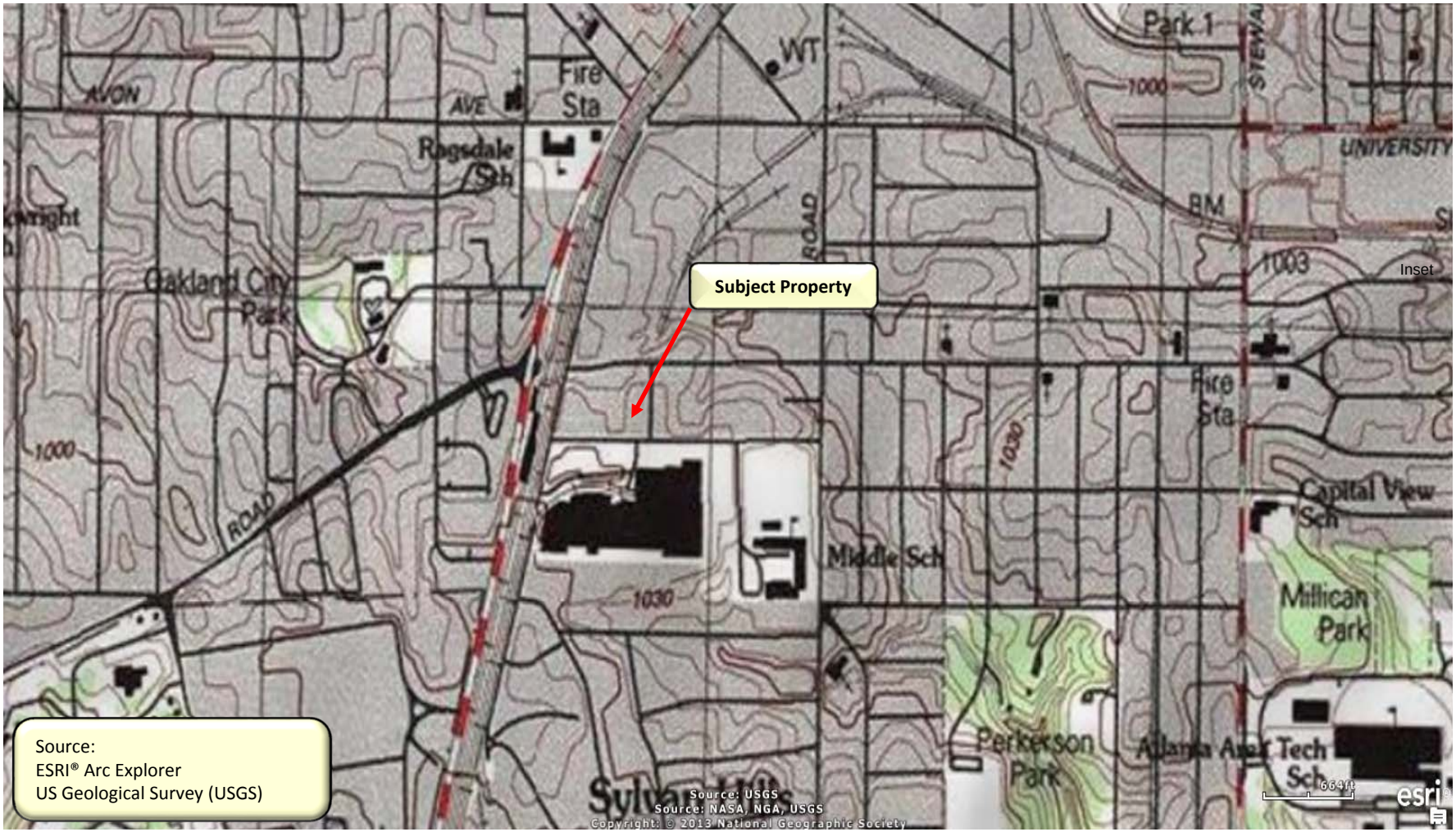
TABLE 3
Groundwater Elevation Data
Warehouse Property
1055 Arden Avenue, SW.
Atlanta, Fulton County, Georgia

Well Number	Date of Measurement	Top of Casing (ft)	Screened Interval (ft)	Depth to Water (ft)	Groundwater Elev. (ft)
MW-01	6/2/2016	103.30	5-20	10.15	93.15
MW-02	6/2/2016	107.96	8-23	12.95	95.01
MW-03	6/2/2016	114.95	10-25	16.25	98.70
MW-04	6/2/2016	121.37	10-25	19.50	101.87
MW-05	6/2/2016	121.14	10-25	18.95	102.19
MW-06	6/2/2016	120.91	10-25	18.60	102.31
MW-07	6/2/2016	125.25	15-30	19.10	106.15
MW-08	6/2/2016	103.51	5-20	10.90	92.61
MW-09	6/2/2016	126.89	15-30	23.75	103.14
MW-10	6/2/2016	124.56	15-30	21.35	103.21

NOTES: Wells surveyed to an arbitary datum 100.00 ft amsl

Limited Phase II Assessment, Warehouse Property-1055 Arden Ave., SW, Atlanta, Georgia

Figures

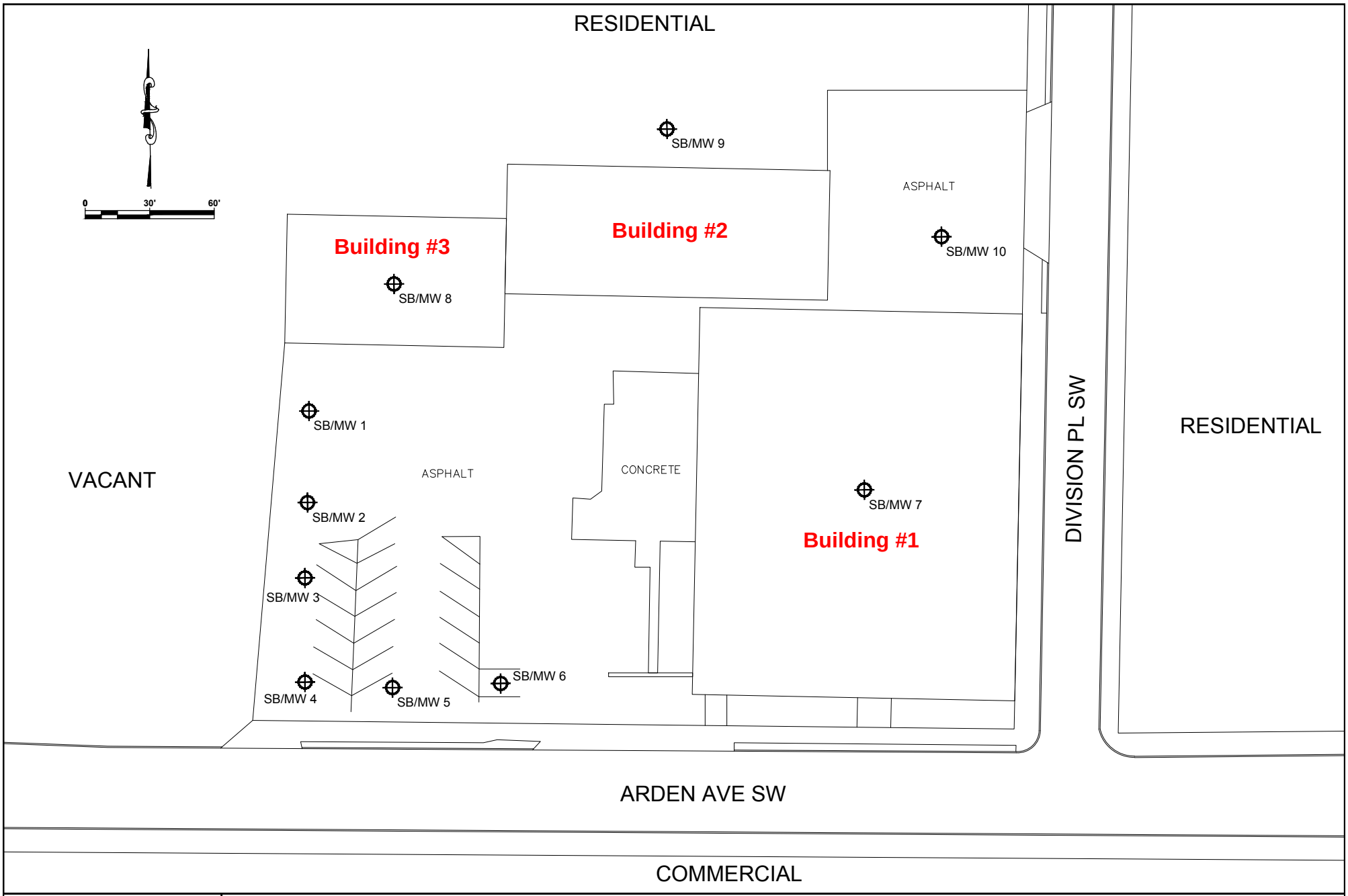


Cardno
Shaping the Future

1”=1,200’

Warehouse Property
1055 Arden Avenue, SW.
Atlanta, Georgia
Parcel ID No. 14 0120 0004 0234
EPA Cooperative Agreement #00-D12413-0

Figure 1
USGS/Site Vicinity Map



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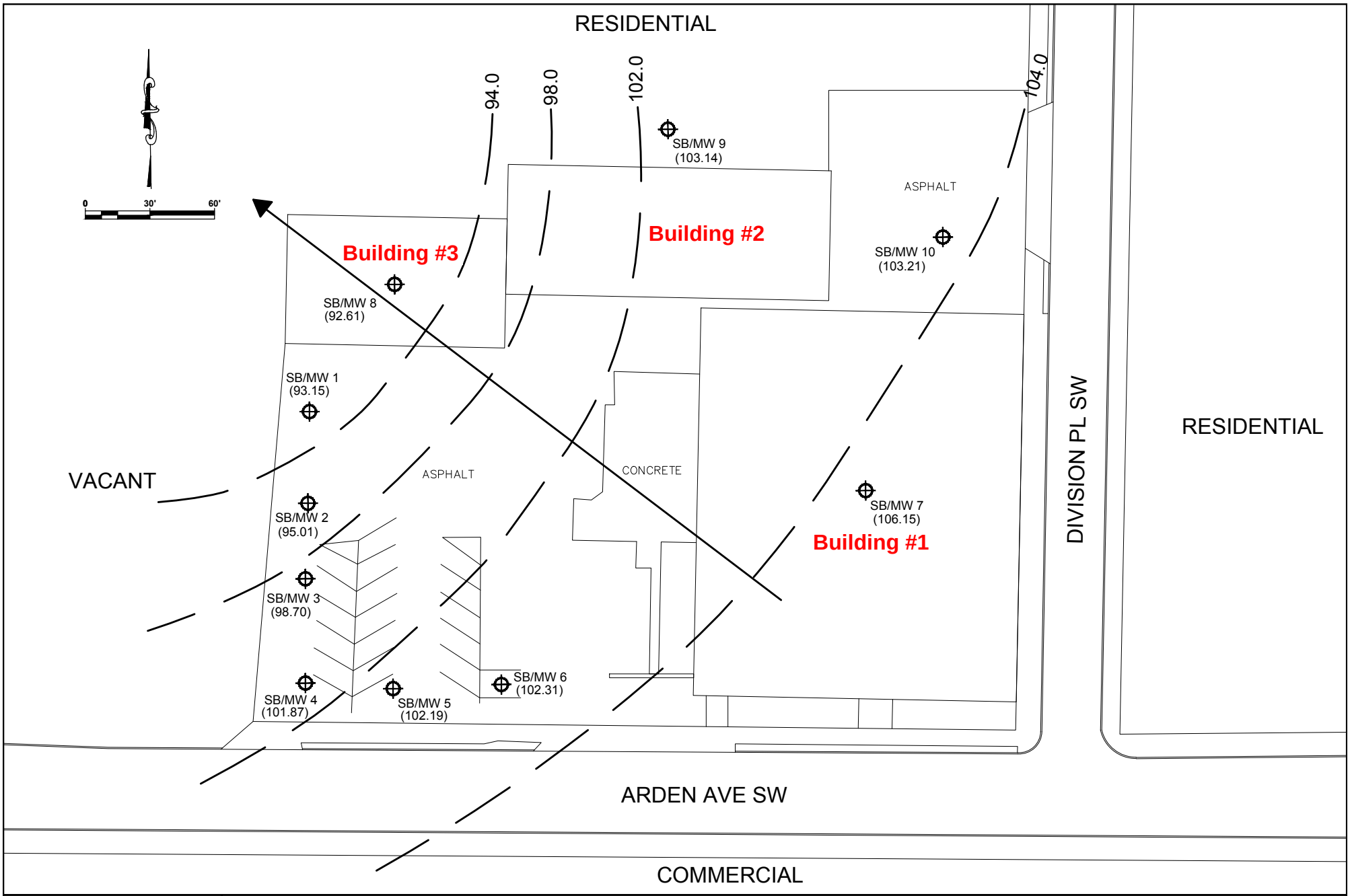
Shaping the Future

1055 Arden Avenue SW
Atlanta, Georgia
EPA Cooperative
Agreement #00-d12413-0

Figure 2
Monitoring Well
Location Map



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1055 Arden Avenue SW
Atlanta, Georgia
EPA Cooperative
Agreement #00-d12413-0

LEGEND

(92.10) Groundwater Elevation (ft)

Groundwater Contour (ft)

Groundwater Flow Direction

Figure 3
Potentiometric Surface Map
June 2, 2016

Limited Phase II Assessment, Warehouse Property-1055 Arden Ave., SW, Atlanta, Georgia

APPENDIX A

ZONING DOCUMENTATION

CITY OF ATLANTA

DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT
55 Trinity Avenue, S.W. SUITE 3350 – ATLANTA, GEORGIA 30303-0308
404-330-6145 – FAX: 404-658-7491
www.atlantaga.gov

SHIRLEY FRANKLIN
MAYOR

STEVE COVER
Commissioner

ALICE WAKEFIELD
Director, Bureau of Planning

MEMORANDUM

TO: Zoning Review Board

FROM: Charletta Wilson Jacks, Zoning Administrator

SUBJECT: **Z-07-47 for 1055 Arden Avenue, S.W.**

DATE: July 5 , 2007 ***(deferred June 7, 2007)***

The applicant seeks to rezone property from the I-2 (Heavy Industrial) and R-4 (Single Family Residential) districts to the MRC-3 (Mixed Residential Commercial - Sector 3) district for the development of a mixed-use residential and commercial/retail project.

This application was deferred from the June 7, 2007 ZRB meeting in order to provide additional time for the applicant to revise the proposed development.

FINDINGS OF FACT:

- property location: The subject property is located on the northwest corner of the intersection of Arden Avenue and Division Place in the Capitol View neighborhood of NPU-X. The site is also within three-quarters of a mile of the proposed BeltLine and within the BeltLine tax allocation district.

- property size and physical features: The subject property consists of 1.730 acres and is developed with a large brick and metal industrial building and a smaller two-story concrete block industrial building which is connected to one-story concrete block building. Approximately one-half of the subject property is a paved asphalt parking area, which also provides access to the loading docks of the industrial buildings. The topography is relatively level throughout the site. There are no trees present on the subject site.

- CDP land use map designation: Mixed Use.

- current/past use of property: The buildings on the subject property are currently vacant, but were previously utilized for industrial and warehousing uses.

- surrounding zoning/land uses: The Kraft Foods/Nabisco processing plant is located directly south of the subject site, and is zoned I-1 (Light Industrial). A large single family residential neighborhood is located to the north and to the east of the subject property, with the parcels predominantly zoned R-4 (Single Family Residential). I-2 (Heavy Industrial) and C-1 (Community Business) zonings are found further north.

- transportation system: Arden Avenue and Division place are local streets. To the west of the subject site lies Murphy Avenue, which is a north/south collector street, as is Dill Avenue, located to the north. MARTA bus routes serve the area, and Marta Rail stations are located on Lee Street, less than a mile from the subject site. Sidewalks are present along Arden Avenue and Division Place, as well as on the majority of the streets in the vicinity of the subject site.

PROPOSAL

The applicant proposes to develop 205,000 square feet of residential space and 45,250 square feet of commercial/retail space in three interconnected buildings on the subject property, ranging from 5 to 12 stories in height. Approximately 195 residential units and 28 live/work units are to be constructed. The buildings will surround a multi-story parking deck, with open space being provided on the top level. Construction of the buildings will be phased, with the final 12-story building being constructed in approximately 10 years. The applicant's proposed development standards are as follows:

Building	Phase	Residential Square Footage	Commercial square footage	Stories
A	I	37,500	12,000	5
B	II	40,000	7,500	7
C	III	127,500	26,250	12

Proposed F.A.R.(based on Net Land Area)	0.67 non-residential (up to 4.0 permitted) 2.71 residential (up to 3.2 permitted)
Total F.A.R.	3.38 (up to 7.2 permitted)
Open Space	TOS – none required UOS – 33,875 square feet (32,200 square feet required)
Lot Coverage	not stated (85% permitted)
Parking	455 spaces (406 spaces required), with an additional 4 loading spaces
Bicycle Parking	not stated (21 required)

CONCLUSIONS:

(1) **Compatibility with comprehensive development plan (CDP); timing of development:** The proposed rezoning for the subject property is compatible with the 2004-2019 Comprehensive Development Plan for NPU-X, as well as the Beltline Redevelopment Plan.

This area of the City is included in the Oakland City/Lakewood LCI Study, and the requested rezoning and subsequent redevelopment of the subject site would assist in the implementation of many of the priorities outlined in the study.

There are no public projects or programs with which the timing of the project would conflict.

(2) **Availability of and effect of public facilities and services; referral to other agencies:** Location of the site and surrounding uses indicate there are public facilities and services available to the subject property.

The capacity of the sewer system to accommodate the proposed development would be reviewed by the Department of Watershed Management after the developer would apply for a building permit. During this review, tie-in to specific sewer lines would be determined, as well as any necessary improvements to the sewer line that would lie within boundaries of the development site.

There has been no indication from review agencies and departments that there would not be adequate public facilities and services at the subject location.

(3) **Availability of other land suitable for proposed use; environmental effect on balance of land uses:** The zoning regulations indicate that this consideration is optional. In this case, Staff is of the opinion that since the proposed zoning classification is compatible with the suggestion of the 2004-2019 CDP that a review of other suitable land would not be required.

(4) **Effect on character of the neighborhood:** The development would have a positive effect on the surrounding neighborhood area by replacing the currently vacant older industrial buildings with a new mixed use development that would bring new residents and retail opportunities to the area.

(5) **Suitability of proposed land use:** No land use amendment is required.

(6) **Effect on adjacent property:** The development should not have any negative impact on adjacent property as the surrounding parcels are currently a variety of industrial, commercial, and single family residential uses. However, since the heights of the proposed 7 and 12-story buildings might possibly have an adverse affect on the smaller scale single family residential uses located adjacent to the north property line, Staff notes that the required 20-foot transitional yard and transitional height plane will mitigate this situation.

(7) **Economic use of current zoning:** The subject property has economic use as currently zoned.

STAFF RECOMMENDATION: APPROVAL, conditioned upon the following:

1. No more than a total of 3 buildings shall be allowed to be constructed on the subject property.

2. A Certificate of Occupancy must be obtained for the 2 smaller buildings to be constructed in Phases I & II before a Building Permit will be allowed to be issued for the remaining largest building, projected for construction in Phase III.

3. The largest of the 3 buildings, projected for construction in Phase III, shall not exceed 12 stories in height.

4. A Transitional height plane shall be required and shall be measured from the northern property line of the subject property.

cc: Steve Cover, Commissioner, DPCD
Alice Wakefield, Director, Bureau of Planning

SITE PLAN SUMMARY OF CALCULATIONS:

1055 Arden Avenue SW

(.a.k.a 1099 Division Place SW)

Land Lot 120, 14th District Fulton County Georgia

NPU-X
Council District 12 Hon. Joyce Sheperd
Capitol View Neighborhood/ Sylvan Hills
Oakland City LCI, Beltline Overlay

Zoning Classification:
Existing: **I-1** (INDUSTRIAL DISTRICT)
Proposed: **MRC-3** (MIXED-USE DISTRICT) Quality of Life
Current Land Use: MIXED USE

Net Land Area: 1.72 Acre SF/ 74,923.20 SF
Gross Land Area: (est.) 90,625.00 SF
395,000 GSF
290,000 SF Residential/ 105,000 SF Commercial and Live Work

Floor Area Ratio: 1.15 Commercial/3.2 Commercial
4.35 Total FAR based on Gross Land Area
7.2 Maximum Allowed Total F.A.R.
4.0 Commercial/ 3.2 Residential

Open Space Provided/ Required
225 Feet Maximum Height

310 Residential Units/ 28 Live Work Units

Parking Spaces Provided: 455 + 4 loading spaces

20 foot buffer on northern property line
15 foot minimum setback on all street frontages

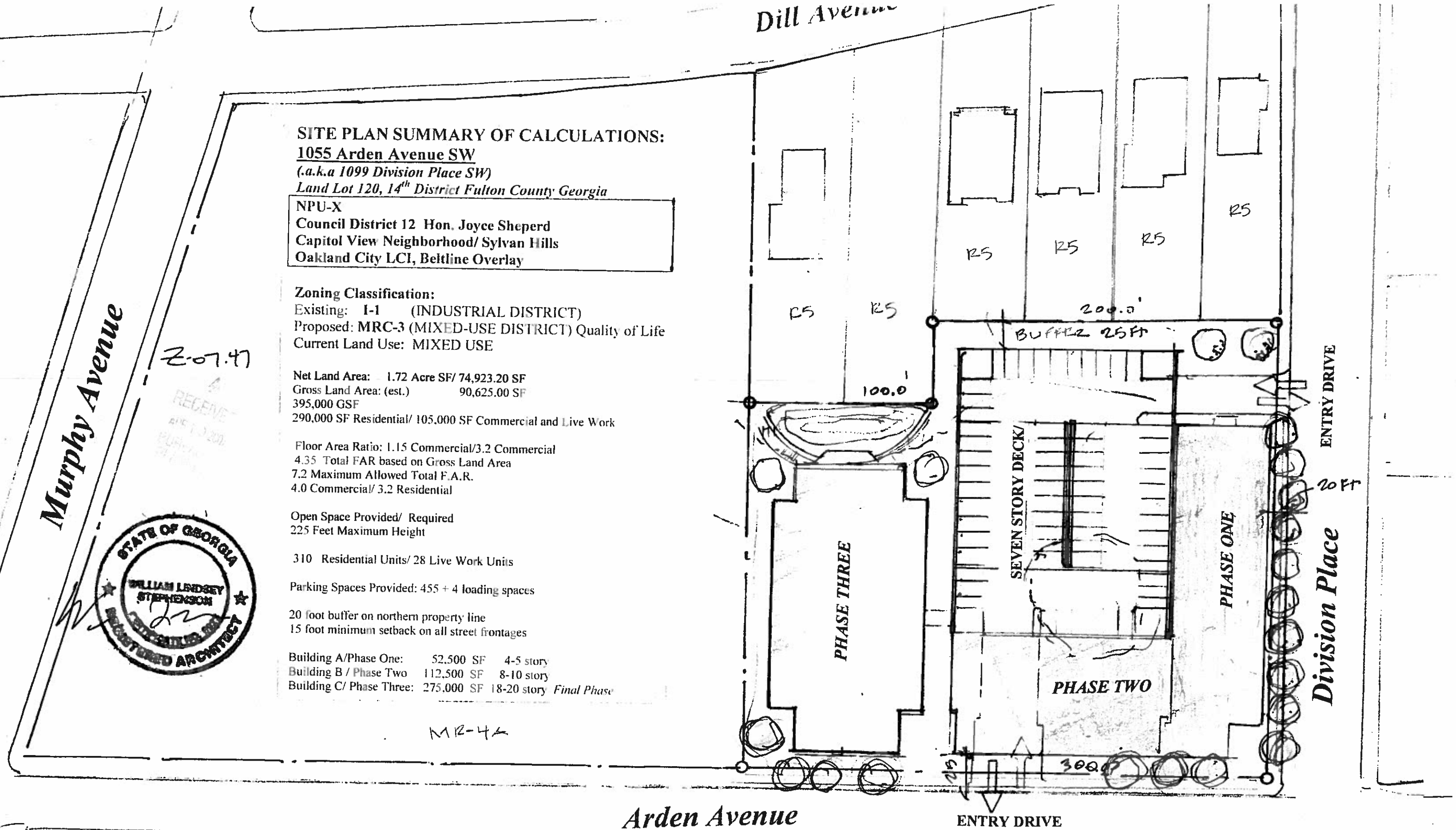
Building A/Phase One: 52,500 SF 4-5 story
Building B / Phase Two 112,500 SF 8-10 story
Building C/ Phase Three: 275,000 SF 18-20 story *Final Phase*

MR-4A

Z-07-47

RECEIVED

STATE OF GEORGIA
WILLIAM LINDSEY STEPHENSON
REGISTERED ARCHITECT



MARTA Entry

I hereby certify that I am familiar with the Zoning Ordinance of the City of Atlanta, as amended. I further certify that to the best of my knowledge and ability, these plans are accurate and comply with the district and general regulations of the City of Atlanta.

SITE PLAN: 1055 ARDEN AVENUE

Scale: 1'=50'-0" **APRIL 10, 2007**

Ground Floor Level

NORTH

Limited Phase II Assessment, Warehouse Property-1055 Arden Ave., SW, Atlanta, Georgia

APPENDIX B

PREVIOUS REPORTS

September 19, 2007

Georgia Department of Natural Resources
Environmental Protection Division
Hazardous Waste Management Branch
2 Martin Luther King Jr. Drive SE
Suite 1154, East Tower
Atlanta, Georgia 30334

Attention: Madeleine Kellam

Subject: **Prospective Purchaser Corrective Action Plan Addendum**
Capitol View Properties I - 1374 Murphy Avenue SW
Holcombe Armature
1055-1079 Arden Avenue SW
Atlanta, Fulton County, Georgia 30310
One Group Project #A7052

Madeleine:

One Consulting Group, Inc. (One Group) respectfully submits this Prospective Purchaser Corrective Action Plan Addendum pursuant to Section 12-8-200 of the Hazardous Site Reuse and Redevelopment Act on behalf of our client, Capitol View Properties I, LLC, a Georgia limited liability company.

The purpose of this addendum is to add a southern adjacent parcel, impacted by the existing release at 1374 Murphy Avenue SW, to the original, approved Prospective Purchaser Corrective Action Plan dated December 19, 2006.

Thank you for the opportunity to be of service. If you have any questions, please do not hesitate to contact call at (404) 815-8005.

Sincerely,
One Consulting Group, Inc.

Berkley J. Tracy, P.G.
Author/Project Geologist

Robert Brawner, CHMM
Reviewer/Principal

Cc: Andrea Rimer, Troutman Sanders LLP

P.O. Box 54382 | Atlanta, GA 30308
phone 404.815.8005 | fax 404.815.8002

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APPENDIX B - ENVIRONMENTAL FILE REVIEW
APPENDIX C - FIGURES
APPENDIX D - TABLES
APPENDIX E - LABORATORY RESULTS

P.O. Box 54382 | Atlanta, GA 30308
phone 404.815.8005 | fax 404.815.8002

1.0 BACKGROUND

1.1 GENERAL PROPERTY INFORMATION

1055-1079 Arden Avenue SW (the Property) is situated on the north side of Arden Avenue SW between Murphy Avenue SW and Division Place in Atlanta, Fulton County, Georgia. The Property occupies a 1.72 acre parcel consisting of three buildings totaling approximately 26,760 square feet. The Property is currently occupied by a lease tenant, Kraft Food Global, Inc., and is used for inventory warehousing only. Historically, the Property was occupied by "Holcombe Armature Company", a manufacturer of armatures (a component of an electromagnetic device) and related devices.

According to the Fulton County Tax Assessor's office, the Property is currently owned by Holcombe Properties, LLC. It is identified as tax parcel #14-0120-0004-0234 and was purchased from Elizabeth W. Holcombe on December 14, 2006. According to information provided by Johanna Sistrunk of the Fulton Tax Assessor's office, there are currently no environmental liens or land use restrictions on the Property. Copies of the legal description and survey are provided in Appendix A.

The Property can be accessed from Arden Avenue to the south or Division Place to the east. An asphalt-paved parking area, covering approximately one third of the entire parcel, is located on the southwestern portion of the Property. It is illuminated by wall-mounted and pole-mounted lamps. The majority of the Property is enclosed with a chain link fence.

Historically, the Property has been surrounded by industrial facilities, including chemical companies, dry cleaners, and manufacturing facilities. Residential neighborhoods have historically existed to the east since the early 1900s. This area has recently witnessed urban redevelopment with a transition to residential and light commercial land uses. The following describes the current surrounding property usage:

North – Single-family residential development then Dill Avenue;
South – Arden Avenue then Kraft Foods Global, Inc.'s Atlanta Bakery;
East – Division Place then single-family residential development;
West – Vacant lot then Murphy Avenue.

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phone 404.815.8005 | fax 404.815.8002

1.2 HISTORIC REVIEW

Historic information (city directories, Sanborn Fire Insurance Maps) were reviewed for indications of previous hazardous material use on the Property. The use of the Property was reviewed in five year intervals dating back to its vacancy and/or undeveloped state in 1955. It appears to have been largely undeveloped with nearby small residences from 1910 until approximately 1955. The Pioneer Heddle and Reed Company is the first documented, industrial facility developed adjacent to the south of the Property in the late 1930s. The surrounding area then becomes increasingly developed with industrial facilities until the early 1980s.

The Property appears in the 1955 and later historic directories, identified as the "Holcombe Armature Company." Over the years, several addresses, 1055 through 1079 Arden SW, were associated with the subject property parcel. No environmental hazards were identified in association with the subject property from the historic review.

Dating back to the early 1900s, the surrounding area is listed as predominantly residentially developed eastward along Dill and Arden Avenues. The Property and immediate vicinity are industrially developed dating back to the 1920s, due to their close proximity to an active railway. In the 1920s, manufacturing and industrial facilities initiate development to the north and south of the Property. Currently, two active industrial facilities are located to the north and south of the Property at 1314 and 1400 Murphy Avenue SW, respectively.

Adjacent, adjoining and nearby property listings identified as having environmental concerns are included in the following table:

Adjacent, Adjoining and Nearby Historic Directory Review

Years	Identified Property	Environmental Concern
1930-1980	1488 Murphy Avenue: Approximately 900 feet south of the subject property.	Operated as a commercial laundry and dry cleaning facility under the names: ABC Linen Service Co., Domestic Laundry and Dry Cleaners, and Domestic Laundry.
1935-1991	1314 Murphy Avenue: nearby property to the north across Dill Avenue.	Operated as a chemical, paint and solvent manufacturing facility under the names: Murphy McGhean Rohco Inc. (Chemical Plant); McClean Chemical Company; Schoelle Corporation (chemicals); Valspor Corporation (paint manufacturing), Minnesota Paints; Cooledge Paint Store (Office and Plant); and Dowman Dozier Manufacturing.
1935-1985	1374 Murphy Avenue SW: west adjacent property.	Operated as Pioneer, Heddle and Reed Company, Inc., a manufacturer of textile machinery and supplies.
1940-present	1400 Murphy Avenue SW: the adjoining property to the south across Arden Avenue SW.	Operated as the National Biscuit Company then NABISCO. A large, wholesale food manufacturing facility.

1940-1960	1378 Murphy Avenue SW: 300 feet to the west of the subject property potentially on either side of Murphy Avenue's intersection with Arden Street.	Operated as Frank G. North (chemical manufacturer).
1960s	1080 Dill Avenue: nearby parcel approximately 300 feet to the northwest of the subject property.	Operated as Permacel Adhesives.
1961-1972	1090 Dill Avenue: nearby parcel approximately 200 feet to the northwest of the subject property.	Operated as Kenitex Chemical, Inc. (manufacturers)
1965-1980	1358 Murphy Avenue SW: 300 feet to the northwest of the subject property.	Operated as Durkee Atwood Belting and Howard Brothers Manufacturing.
1965-1975	1084 Dill Avenue SW: 200 feet to the northwest of the subject property.	Operated as the Bolden Die Company.
1970-1980	1080 Dill Avenue SW; 200 feet to the northwest of the subject property.	Operated as the Fort Worth Steel and Machinery Corporation.

Based on the historic review, the adjacent, adjoining, and nearby parcels appear to have been occupied by industrial and commercial facilities that could create issues of environmental concern.

Documentation of historic information has been submitted under previous cover in the initial Potential Purchaser Corrective Action Plan.

1.3 ENVIRONMENTAL FILE REVIEW

The Property is listed on the FINDS database as a TRIS (Toxic Release Inventory System) facility. The Toxics Release Inventory (TRI) is a publicly available EPA database that contains information on specific toxic chemical releases and other waste management activities reported annually by certain covered industry sectors as well as federal facilities. This inventory was established under the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA), and expanded under the Pollution Prevention Act of 1990 (PPA), which requires facilities to use their best readily available data to calculate their releases and other waste management estimates. If facilities do not have actual monitoring data, submitted values are derived from various estimation techniques.

TRI facilities are required to report on their release of toxic chemicals into air, water, land and underground injection, and the quantities of toxic chemicals managed as waste. Reports must be submitted on or before July 1 of each year and must cover activities that occurred at the facility during the previous year. Manufacturing facilities, metal mines, coal mines, electric utilities, petroleum and chemical wholesalers, commercial hazardous waste treatment facilities, solvent recyclers, and federal facilities (and facilities added in 1998) that have the equivalent of 10 or more full-time employees and meet the established thresholds for manufacture, processing or "otherwise use" of listed chemicals must report their releases and other waste management quantities (including quantities transferred off-site for further waste management).

Available regulatory information indicates no recorded releases associated with this listing and, therefore it is considered administrative in nature. Further, the Property is not listed on any federal or state databases as either an small or large quantity generator of hazardous waste. Copies of available regulatory information are included in Appendix B.

Adjacent Property (1374 Murphy Avenue SW)

A Phase I Environmental Site Assessment and Potential Purchaser Corrective Action Plan prepared for the west, adjacent property, 1374 Murphy Avenue SW, were provided for review during this assessment. These reports were prepared by One Consulting Group, Inc. in association with the purchase and Brownfield application for this property. They document the following conclusions with regards to this property

The review of aerial photographs, historical city directories, interviews, and historical maps determined that 1374 Murphy Avenue SW has been occupied by several industrial facilities including machinery manufacturers and chemical companies. It is listed as an SQG facility under EPA ID#GAD003295177 under the name "Ellison Pioneer Heddle and Reed at 1374 Murphy Avenue SW." The following waste codes were produced at this property: D002 (corrosive), D003 (reactive), and F006-F009 (hazardous wastes associated with electroplating operations where cyanides were used in the process.) It is reported a plating bath was localized on the southeast corner of this property.

Soil cadmium concentrations exceeding the applicable notification concentrations of 39 parts per million (ppm) were identified in site soils in 2005. The apparent source of cadmium in soils is the plating bath located in the former building on its southeast corner. This building and the plating bath structure were apparently demolished in 2002. Following the discovery of cadmium in soils, extensive remedial activities and confirmation sampling were performed and cadmium impacted soils exceeding the applicable notification concentration were removed from this site. These activities have been reviewed by EPD, which determined in a letter dated December 23, 2005, that "the site did not have a release exceeding a reportable quantity or pose a danger to human health or the environment at the time of listing the site on the HSI" and delisted the site from the Hazardous Sites Inventory. According to documents submitted to EPD by the subject property owner, cadmium concentrations between 1 ppm and 39 ppm remain present in this site's southeast portion.

Volatile organic compounds (VOCs), specifically tetrachloroethylene, trichloroethylene, 1,1 Dichloroethene, 1,2 Dichloroethane and methylene chloride were discovered in the groundwater above reporting concentrations. These concentrations have been reviewed by EPD, which determined "the site did not have a release exceeding a reportable quantity or pose a danger to human health or the environment at the time of listing the site on the HSI."

Capitol View Properties I, LLC purchased this adjacent property as a Brownfield site in January 2007. A copy of the Georgia Brownfield program acceptance letter for this property is included in Appendix G.

P.O. Box 54382 | Atlanta, GA 30308
phone 404.815.8005 | fax 404.815.8002

1.4 PROPOSED PROPERTY USE

Following the purchase of the Property, the prospective purchaser, Capitol View Properties I, LLC, plans to redevelop the property for residential purposes.

P.O. Box 54382 | Atlanta, GA 30308
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2.0 ENVIRONMENTAL INVESTIGATION

2.1 SITE SPECIFIC HYDROLOGY

The Property is located in a lower pollution susceptibility area as defined by the Groundwater Pollution Susceptibility Map of Georgia, Georgia Geologic Survey Hydrologic Atlas 20. Based on surface topography and groundwater assessments performed on the adjacent western property, groundwater flow direction is likely to the north. A topographic map of the Property and the surrounding area is included in Appendix C.

Drinking water supplies have not been identified within a three-mile radius of the Property. The nearest downgradient, surface water is an unnamed tributary of the South River which is 2,500 feet southeast of the subject property.

2.2 SURFICIAL SOIL SAMPLING

Surficial soil sampling was performed on April 23, 2007, and soil samples were obtained at depths of zero to six inches below ground surface (bgs) on the western property boundary. These locations were selected to discover impact from stormwater sediment wash emanating from the adjacent, western property. This adjacent parcel resides at a higher elevation and discharges stormwater to the Property.

Soil samples were obtained using both hand equipment. Once obtained, soil samples were field preserved, containerized, labeled, placed on ice (when required) and transported under standard Chain of Custody protocols. Soil samples were analyzed for RCRA 8 Metals EPA Method 6010B.

Soil sampling locations are presented in Figure 3 of Appendix C.

2.3 GROUNDWATER SAMPLING

One Group personnel mobilized to the site on April 23, 2007 and advanced three soil borings, SB-1 through SB-3, to groundwater with a hollow-stem auger drill rig. These locations were selected to best represent shallow groundwater quality in areas suspected of impact from historical and western adjacent environmental concerns. Each soil boring was completed as a temporary Type II monitoring well, TMW-1 through TMW-3, with screened interval, sand filter pack, and bentonite seal.

Groundwater was encountered in all of the temporary monitoring wells at depths ranging from approximately 13 to 19 feet bgs. Groundwater samples were obtained from each temporary monitoring well using dedicated, disposable bailers on April 27, 2007. The groundwater samples were field preserved, labeled, placed on ice and transported under standard Chain of Custody protocols. All groundwater samples were analyzed for Volatile Organic Compounds (VOCs) EPA Method 8260B. Analytical Environmental Services, Inc. performed the analysis at their laboratory in Norcross, Georgia.

The locations of the temporary monitoring wells, TMW-1 through TMW-3, are presented in Figure 4 of Appendix C.

2.4 LABORATORY ANALYTICAL RESULTS

The following section presents the results of all soil and groundwater analytical testing performed at the property, to date.

Soil

Soil constituents exceeding Hazardous Site Response Act (HSRA) Notification Concentrations and HSRA Type I risk reduction standards (NCs) include:

- Cadmium;
- Lead;

Additional soil constituents detected above laboratory detection limits, below NCs, but above HSRA Type I risk reduction standards include:

- Arsenic;

Remaining metals were not discovered above NCs or HSRA Type I risk reduction standards. The metal concentrations, exceeding applicable threshold values discovered in site soils, are believed to emanate from the western adjacent, topographically upgradient property.

Groundwater

Groundwater constituents detected at concentrations exceeding their respective USEPA maximum contaminant levels (MCLs) include:

- Tetrachloroethylene;

Additional groundwater constituents detected above laboratory detection limits but below MCLs, where applicable, include:

- 1,1 Dichloroethylene;
- Methyl Tert-butyl Ether.

Soil analytical results are presented in Figure 3 of Appendix C and are summarized in Table 1 of Appendix D. Groundwater analytical results are presented in Figure 4 of Appendix D and are summarized in Table 2 of Appendix D. The laboratory analytical reports are provided in their entirety in Appendix E.

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phone 404.815.8005 | fax 404.815.8002

3.0 QUALIFICATION OF SITE AND PROSPECTIVE PURCHASER

We understand that the Hazardous Site Reuse and Redevelopment Act has set forth certain criteria in order to qualify for the Brownfield Limitation of Liability. Based on our understanding of the site, we conclude that both the Property and the purchaser meet the Act's requirements as summarized below.

The Property:

1. Has had a pre-existing release;
2. Does not have liens filed under subsection (e) of Code Section 12-8-96 against it;
3. Is not listed on the Federal National Priority List
4. Is not undergoing response activities by an order of the U.S. Environmental Protection Agency;
5. Is not a hazardous waste facility as defined in Code Section 12-8-62.

The prospective purchaser, Capitol View Properties I, LLC:

1. Is not a person who has contributed or is contributing to a release at the property;
2. Is not related to, or is otherwise affiliated with, the current owner of the Property or any person who has contributed or is contributing to a release at the site;
3. Has not found evidence of liens filed under subsection (e) of Code Section 12-8-96 against the property;
4. Is not in violation of any order, judgment, statute, rule or regulation subject to the enforcement authority of the director.

The Property and prospective purchaser meet the criteria.

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4.0 CORRECTIVE ACTION PLAN

We propose the following items for the Corrective Action Plan:

- Site soils that exceed the applicable Hazardous Site Response Act (HSRA) residential, Type I or II Soil Risk Reduction Standards (SRRS) will be excavated and removed from the site. Such corrective action will be conducted on any regulated substances that have already been identified at the Property, and any regulated substances that are detected during either the completion of additional site investigation activities or development of the Property. Should alternative risk reduction standards or remedial methods be sought, an amendment or addendum to this Corrective Action Plan will be submitted to EPD for approval.

- Identified, impacted soil areas will be excavated to the limits determined by excavation delineation sampling by the applicant's consultant. Soil samples will be taken in intervals of 25 feet on excavation sides and 100 square feet on the bottom of the excavation area. Excavated material that requires off-site disposal will be placed directly into roll-off boxes or onto covered asphalt pavement with appropriate cover and erosion control. The extent of excavation of impacted soil areas will be confirmed through verification sampling. Soil verification samples will be analyzed by a qualified laboratory.

- The excavation, handling, transport, and disposal of the source material will be performed by methods that: (i) prevent contamination of the surrounding environment (soil, water, air), (ii) are in accordance with federal, state, and local laws, and (iii) protect personnel in the excavation area and adjacent areas.

- Disposal characterization samples of the excavated material will be collected and analyzed by a qualified laboratory in accordance with the selected permitted disposal facility's requirements. The excavated impacted soil will be transported in compliance with all applicable regulations for transporting such waste and disposed at a pre-approved disposal facility permitted to accept the designated waste.

- The work will be performed in compliance with applicable OSHA regulations, and in accordance with a project specific Health, Safety, and Emergency Response Plan.

5.0 SCHEDULE

Corrective action will be conducted in coordination with the planned redevelopment of the Property. Based on the current development schedule, we anticipate that corrective action at the Property will be completed within two years of the prospective purchaser's acquisition of the Property.

P.O. Box 54382 | Atlanta, GA 30308
phone 404.815.8005 | fax 404.815.8002

6.0 PREPARATION OF CSR

Capitol View Properties I, LLC will submit a Compliance Status Report (CSR), certifying compliance with applicable risk reduction standards within six months of completion of the assessment and corrective action previously outlined and receipt of confirmation sample results. The written report will be submitted in accordance with applicable EPD requirements and consist of information in the format required for submission to the EPD.

7.0 CERTIFICATION STATEMENT

I certify that this report and all attachments were prepared under my direction in accordance with a system designed to assure that qualified personnel properly evaluated the information submitted. Based on my inquiry of the person or persons who prepared the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Robert Brawner, CHMM
One Consulting Group

20 Sep 2007
Date

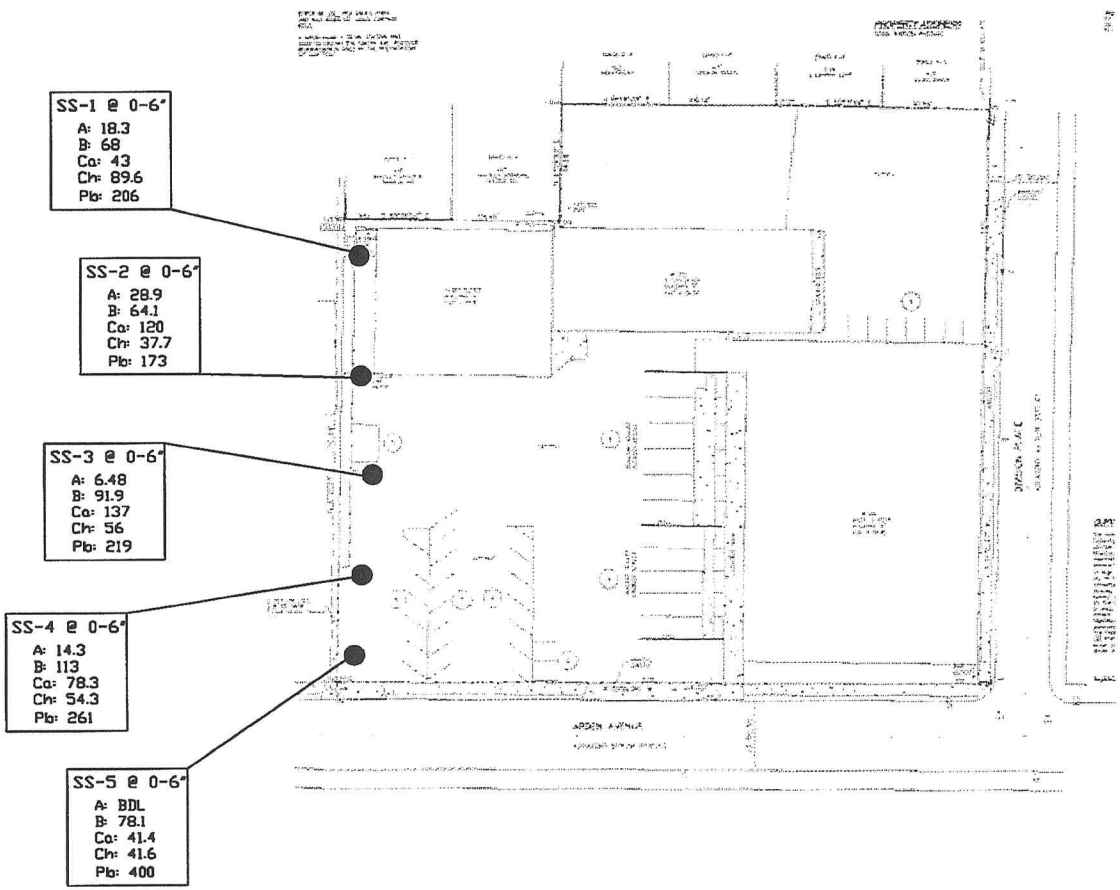
Berkley J. Tracy, P.G.
One Consulting Group

9/20/2007
Date

BERKLEY J. TRACY
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 1792

Figure 3
Soil Analytical (4.23.2007)

Holcombe Armature
1055-1079 Arden Avenue SW
Atlanta, Fulton County, Georgia
Project #A7052
Source: Survey dated March 12, 2007



N

1" = 80'

LEGEND

Soil boring — ND: Below detection limits

Temporary monitoring well

A: Arsenic
B: Barium
Ca: Cadmium
Ch: Chromium
Pb: Lead

Soil results are in mg/kg or ppm

OneConsultingGroup
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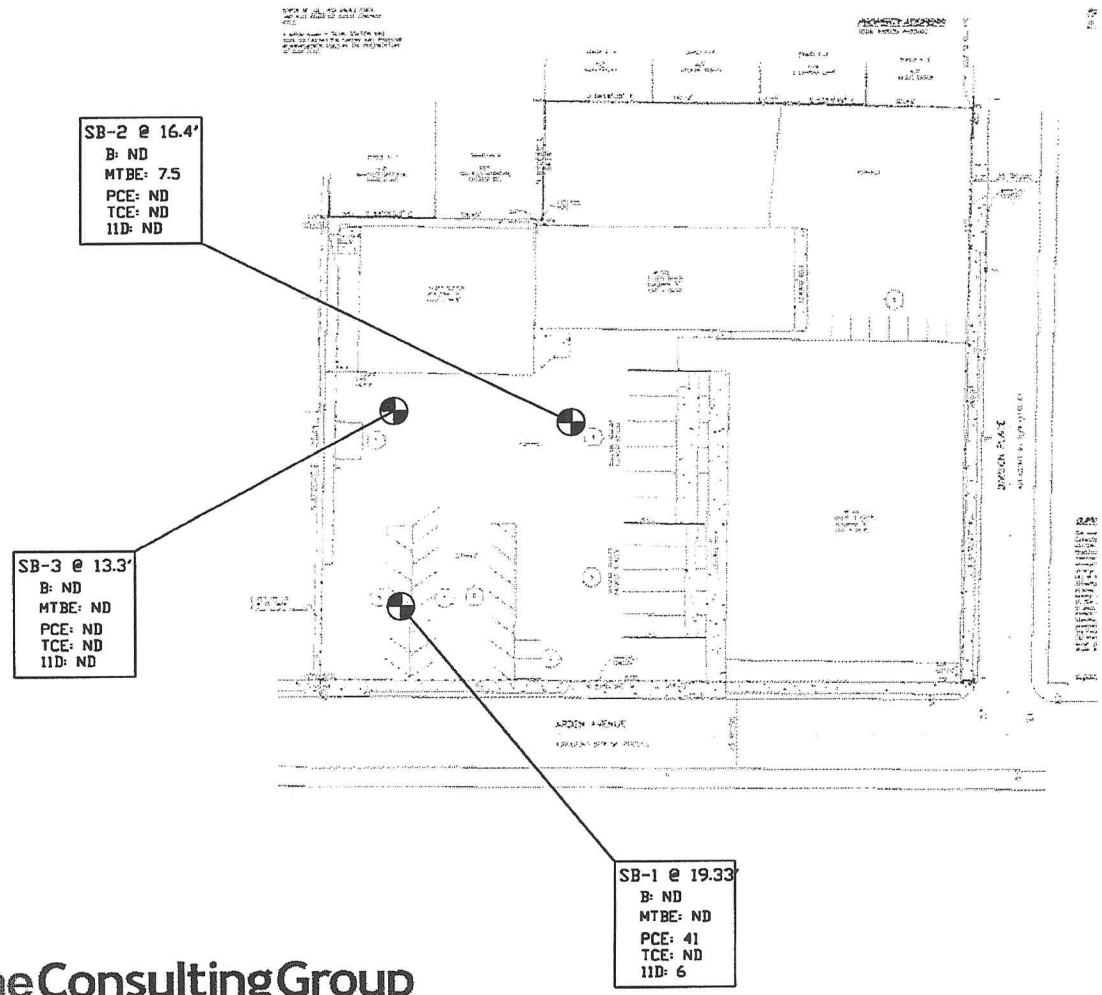
Figure 4
Groundwater Analytical (4.27.2007)

Holcombe Armature
1055-1079 Arden Avenue SW
Atlanta, Fulton County, Georgia
Project #A7052
Source: Survey dated March 12, 2007



N

1" = 80'

LEGEND

Soil boring — ND: Below detection limits

Temporary monitoring well

B: Benzene
MTBE: Methyl Tert-butyl Ether
PCE: Tetrachloroethylene
TCE: Trichloroethylene
11D: 1,1 Dichloroethene
Groundwater results are in ug/L or ppb

One Consulting Group
simplifying your environment

U.S. Environmental Protection Agency

Toxics Release Inventory (TRI)

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EPA Home > Envirofacts > TRI > Envirofacts Report

Envirofacts Report

Report an Error

Query executed on SEP-19-2007
Results are based on data extracted on AUG-24-2007

Click on "View Facility Information" to view EPA Facility information for the facility.

Facility Name:	HOLCOMBE ARMATURE CO	Mailing Name:	HOLCOMBE ARMATURE CO	
Address:	1055 ARDEN AVE SW ATLANTA GA 30310	Mailing Address:	1055 ARDEN AVE SW ATLANTA GA 30310	
County:	FULTON	Region:	4	
Facility Information:	View Facility Information	TRI ID:	30310HLCMB1055A	DUNS Number:
		FRS ID	110001128663	
TRI Preferred Latitude:	33.7169	TRI Preferred Longitude:	84.422733	
Public Contact:	JERRY MOBLEY	Phone:	4047587421	

SIC Codes for 1996

SIC CODE	SIC DESCRIPTION
3714	MOTOR VEHICLE PARTS AND ACCESSORIES

The above information comes from 1996, which is the latest reporting year on file for this facility. The earliest reporting year on file for this facility is 1987.

Map this facility

Map this facility using one of Envirofact's mapping utilities.

Total Aggregate Releases of TRI Chemicals to the Environment:

*For all releases estimated as a range, the mid-point of the range was used in these calculations. This table summarizes the releases reported by the facility. **NR** - signifies nothing reported by this facility for the corresponding medium.*

Total Aggregate Releases of TRI Chemicals excluding Dioxin and Dioxin-like Compounds (Measured in Pounds)

LEGEND

IPF	IRON PIN FOUND (1/2" REBAR)
IPS	IRON PIN SET (1/2" REBAR)
OTF	OPEN TOP FOUND
CTF	CAP TOP FOUND
JB	JUNCTION BOX
LLL	LAND LOT LINE
LP	LIGHT POLE
MH	MANHOLE
PL	PROPERTY LINE
BSL	BUILDING LINE
CL	CHAIN LINK
℄	CENTERLINE
DE	DRAINAGE EASEMENT
DI	DROP INLET
PP	POWER POLE
RFF	REBAR FOUND
R/W	RIGHT-OF-WAY
SE	SANITARY SEWER EASEMENT
UE	UTILITY EASEMENT
FH	FIRE HYDRANT
	SINGLE WING CATCHBASIN
	DOUBLE WING CATCHBASIN
	WATER VALVE
	GAS VALVE
	HEADWALL
1000	MAJOR CONTOUR
990	MINOR CONTOUR
990	EXISTING CONTOUR

CLOSURE:

THIS PLAT HAS BEEN CALCULATED FOR CLOSURE BY LATITUDES AND DEPARTURES AND IS FOUND ACCURATE TO WITHIN ONE FOOT IN 130,192 FEET.

THE FIELD DATA UPON WHICH THIS PLAT IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 10,000+ FEET AND AN ANGULAR ERROR OF 20" PER ANGLE POINT AND WAS ADJUSTED USING COMPASS RULE.

A. NIKON L02C – TOTAL STATION WAS USED TO OBTAIN THE LINEAR AND ANGULAR MEASUREMENTS USED IN THE PREPARATION OF THIS PLAT.

GENERAL NOTES:

1. NO STREAM BUFFER SHOWN ON SURVEY; HOWEVER ANY BUFFERS THAT MAY APPLY MUST BE CONFIRMED BY APPROPRIATE STATE AND COUNTY AGENCIES.
2. THERE IS NO EVIDENCE OF:
   a. RECENT STREET OR SIDEWALK CONSTRUCTION IN RECENT MONTHS.
   b. LAND FILLS OR DUMP PITS.
   c. GRAVES OR CEMETERIES.

FLOOD NOTE:

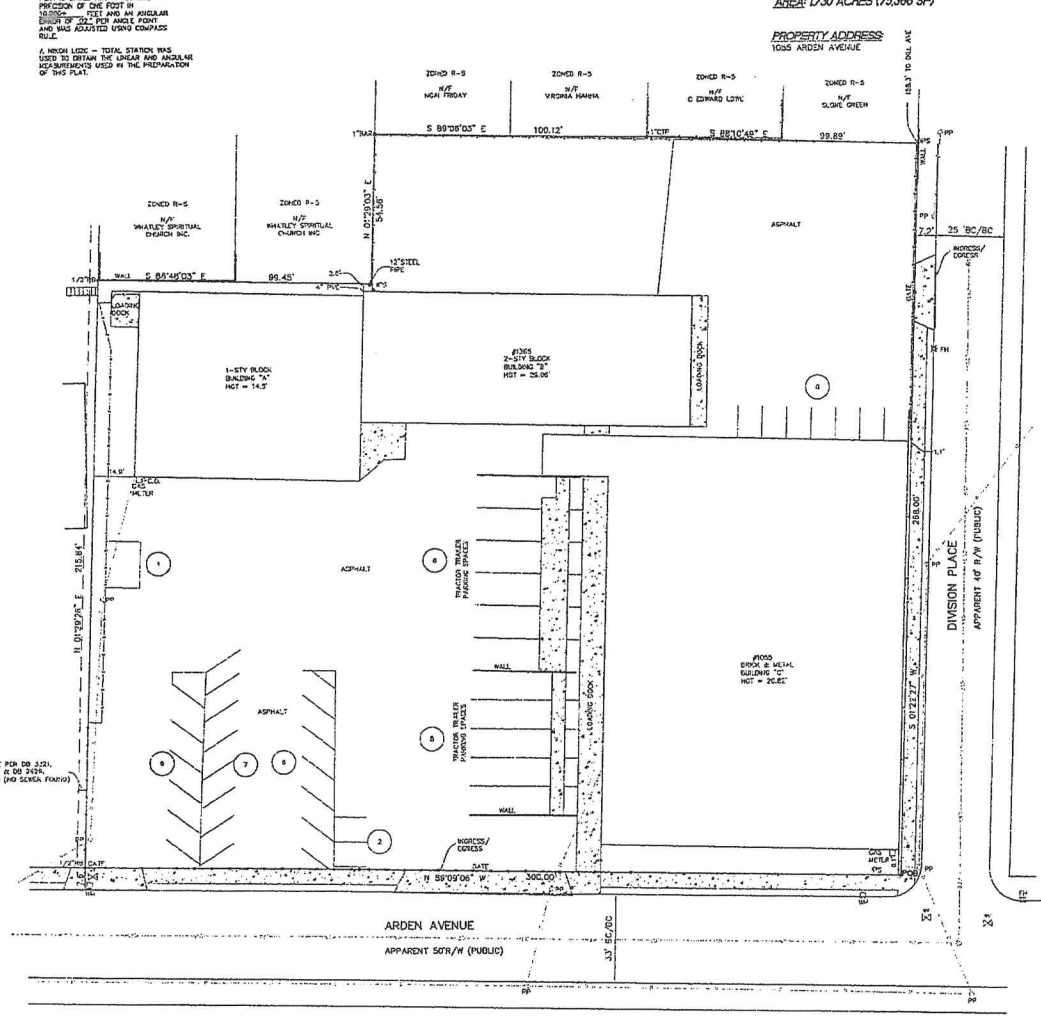
BASED ON GRAPHIC DETERMINATION, THIS PROPERTY DOES NOT LIE IN A F.E.M.A./F.I.R.M. SPECIAL FLOOD HAZARD AREA PER COMMUNITY PANEL NO. 13121C0335G; DATED JUNE 22, 1998.

AREA: 1.730 ACRES (75,366 SF)

PROPERTY ADDRESS:
1055 ARDEN AVENUE

ZONING: I-2 (PER TAX RECORDS)

PARKING:
30 STRIPED SPACES PROVIDED
11 TRACTOR TRAILER PARKING SPACES



LOCATION MAP (n.t.s.)

LEGAL DESCRIPTION:

All that tract or parcel of land lying and being in Land Lot 120 of the 14th District of Fulton County, Georgia and being more particularly described as follows:
BEGINNING at an iron pin at the intersection of the northerly right-of-way line of Arden Avenue (Apparent 50-foot right-of-way) and the westerly right-of-way line of Division Place (Apparent 40-foot right-of-way); thence along said northerly right-of-way line of Arden Avenue N88°09'03"E a distance of 300.00 feet to a one half inch rebar; thence leave said right-of-way line N01°29'03"E a distance of 215.94 feet to a one half inch rebar; thence S88°48'03"E a distance of 99.48 feet to an iron pin; thence N01°29'03"E a distance of 54.56 feet to a one inch bar; thence S89°08'03"E a distance of 100.12 feet to a one inch crimp top pipe; thence S88°10'48"E a distance of 99.89 feet to an iron pin on the westerly right-of-way line of Division Place; thence along said right-of-way line S01°22'27"W a distance of 286.00 feet to THE POINT OF BEGINNING.
This tract or parcel contains 1.730 acres (75366 square feet) of land.

PART II, SCHEDULE B (Exceptions)
CHICAGO TITLE INSURANCE COMPANY
COMMITMENT NO. 2-15903 Dated 2/9/07 at 5:00pm

5. Right of Way Easement from J. M. Holcombe and E. A. Holcombe to Georgia Power Company, dated November 23, 1954, filed for record January 4, 1955 at 10:40 a.m., recorded in Deed Book 2450, Page 87, Records of Fulton County, Georgia. (Does affect; not plottable)

6. Terms and conditions of Sewer Easement Agreement by and between E. A. Holcombe and James N. Holcombe, Pioneer Hosiery and Rand Company, Inc., and Mossell Foundation, Inc., dated October 4, 1954, filed for record October 7, 1954 at 10:30 a.m., recorded in Deed Book 2929, Page 83, aforesaid Records. (Does affect; shown)

7. Terms and conditions of Sewer Easement Agreement by and between E. A. Holcombe and James N. Holcombe, Pioneer Hosiery and Rand Company, Inc., and Mossell Foundation, Inc., dated October 4, 1954, filed for record April 10, 1958 at 11:52 a.m., recorded in Deed Book 3321, Page 29, aforesaid Records. (Does affect; shown)

8. All matters shown on plat recorded in Plat Book 3, Page 145, aforesaid Records. (shown on survey)
Those matters as disclosed by that certain survey entitled "Survey for _____", prepared by _____, bearing the seal and certification of _____, Georgia Registered Land Surveyor Number _____ dated _____ 20__, as follows:
(a) _____
(b) _____
NOTE: THIS EXCEPTION IS TENTATIVE ONLY AND WILL BE AMENDED OR DELETED UPON RECEIPT OF A CURRENT AND ACCURATE SURVEY AND SURVEYOR'S INSPECTION REPORT.

SURVEYOR'S CERTIFICATION

The undersigned ("Surveyor") hereby certifies to Longstreet Capital, LLC and Chicago Title Insurance Company that: (1) the plat of survey is true and correct and was prepared from an actual on-the-ground survey of the real property shown thereon (the "Property"); (2) it meets the "Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys" as adopted by the American Land Title Association, the American Congress on Surveying and mapping, and the National Society of Professional Surveyors in 2005, including items 1 through 4, 6, 7(a), 7(b)(1), 7(c), 8, 9, 10, 11(a), 13, 14 and 16 through 18 of Table A thereto; (3) the survey was conducted by the Surveyor or under his supervision; (4) all monuments shown thereon actually exist, and the location, size and type of material thereof are correctly shown; (5) the survey correctly shows the location of all buildings, structures, streets, parking spaces, easements, rights-of-way, storm drainage and sanitary sewer lines; (6) except as shown on the survey, there are no encroachments onto the property or protrusions therefrom, no other improvements or the Property, no visible easements or rights-of-way and no visible discrepancies, conflicts, shortages in area, or boundary line conflicts; (7) all building lines and setbacks are shown on the survey; (8) except as shown, the Property is not located within a 100-year flood plain, in a flood way, or in an identified "flood prone area" as defined by the U. S. Department of Housing and Urban Development, pursuant to the Flood Disaster Protection Act of 1973, as amended, nor is the Property identified by the Federal Emergency Management Agency as an area having special flood hazards, except as shown; (9) there are no wetlands affecting the Property; (10) the Property is connected to public sewer, public water and public electricity lines, which now serve the same; (11) the address of the Property is 1055 Arden Avenue, SW, Atlanta, Georgia.

Registration No. 2576 Date

GEORGIA REGISTERED No. 2576 JOHN A. STEERMAN

IN LIEU OF SIGNING THIS PLAT, I HAVE CAUSED MY REPRESENTATIVE TO SIGN MY NAME AND THIS SEAL AFFIXED TO CONFORM WITH THE PROVISIONS, DEFINITIONS AND PURPOSES OF LAW.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

SCI Development Services
ENGINEERS - SURVEYORS - PLANNERS
2330 HEWATT ROAD - SNELLVILLE, GEORGIA 30039
(770) 736-7005 - FAX (770) 736-4923
MAIL@SURVEYCONCEPTS.NET

CERTIFIED TO: Longstreet Capital, L.L.C. and Chicago Title Insurance Company
SUBDIVISION: INLAND HAGEDALE PROPERTY
LOT 68 - 79
LAND LOT 120
14th DISTRICT
FULTON COUNTY, GEORGIA

DATE	DRAWN	CHECKED
3/12/07	MC	TS
SCALE 1"=20'		

SHEET TITLE
ALTA/ACSM LAND TITLE SURVEY

PROJECT NUMBER
46550

DRAWING NUMBER
SI-BOYCOCKS

Media	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987
Air Emissions	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Surface Water Discharges	0	NR	NR	NR	NR	NR	NR	NR	NR	NR
Releases to Land	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Underground Injection	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Total On-Site Releases	0	NR	NR	NR	NR	NR	NR	NR	NR	NR
Transfer Off-Site to Disposal	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Total Releases	0	NR	NR	NR	NR	NR	NR	NR	NR	NR

Graphic Summary of this Table

Total Aggregate Releases of Dioxin and Dioxin-like Compounds (Measured in Grams)

Media	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987
Air Emissions	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Surface Water Discharges	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Releases to Land	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Underground Injection	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Total On-Site Releases	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Transfer Off-Site to Disposal	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Total Releases	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

Graphic Summary of this Table

TRI Chemicals Reported on Form A:

Please note that there were no chemicals reported on Form A for this facility

NOTE:
All chemicals reported below have release or transfer amounts greater than zero. To see a list of all chemicals reported by this facility click here.

Names and Amounts of Chemicals Released to the Environment by Year.

Please note that there were no release amounts of Chemicals for this facility to the Environment for the years 1987 to 1996. Rows with all "0" or "NR" values were not listed.

Discharge of Chemicals into Streams or Bodies of Water:

Please note that either there were no releases of chemicals into streams or bodies of water reported by this facility or the facility did not file a TRI form R for the years 1987 to 1996. Rows with Release Amount equal to "0" were not listed.

Transfer of Chemicals to Off-Site Locations other than POTWs:

Please Note that there were no Transfer of Chemicals to Off-Site Locations other than POTWs. Rows with Total Transfer Amount equal to "0" were not listed.

Summary of Waste Management Activites

Summary of Waste Management Activites excluding Dioxin and Dioxin-like Compounds (Measured in Pounds)

This facility did not report any waste management activites for non Dioxin-like Compounds.

Summary of Waste Management Activites for Dioxin and Dioxin-like Compounds (Measured in Grams)

This facility did not report any waste management activites for Dioxin and Dioxin-like Compounds.

Chemicals Under Waste Management:

This facility did not report any chemicals as being treated, recycled, or used in energy recovery.

Transfer of Chemicals to Publicly Owned Treatment Works (POTW):

This facility did not transfer any chemicals to a Publicly Owned Treatment Works (POTW).

Non Production Releases:

This facility did not report any Non-Production releases.

Additional links for TRI:

This information resource is not maintained, managed, or owned by the Environmental Protection Agency (EPA) or the Envirofacts Support Team. Neither the EPA nor the Envirofacts Support Team is responsible for their content or site operation. The Envirofacts Warehouse provides this reference only as a convenience to our Internet users.

- National Library of Medicine (NLM) EXIT EPA TOXMAP
- The Environmental Defense Fund's (EDF) Chemical Scorecard has on-line environmental information regarding this EXIT EPA facility's reported TRI releases.

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Last updated on Wednesday, September 19th, 2007
http://oaspub.epa.gov/enviro/tris_control.tris_print

U.S. Environmental Protection Agency

Facility Registry System (FRS)

Recent Additions | Contact Us | Print Version EF Search: GO

EPA Home > Envirofacts > FRS > Report

Facility Detail Report

Report an Error

FRS

Facility Name:	HOLCOMBE ARMATURE CO
Location Address:	1055 ARDEN AVE SW
Supplemental Address:	
City Name:	ATLANTA
State	GA
County Name:	FULTON
ZIP/Postal Code:	30310
EPA Region:	04
Congressional District Number:	05
Legislative District Number:	
HUC Code:	03070103
Federal Facility:	NO
US Mexico Border Indicator:	NO
Tribal Land :	NO
Latitude:	33.717035
Longitude:	-84.422451
Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point Description:	
Duns Number:	023859747
Registry ID:	110001128663

Map this facility

Environmental Interests

Information System	Information System ID	Environmental Interest Type	Data Source	Last Updated Date	Supplemental Environmental Interests:
TRIS	30310HLCMB1055A	TRI REPORTER	TRI REPORTING FORM	08/04/1997	

Facility Mailing Addresses

Affiliation Type	Delivery Point	City Name	State	Postal Code	Information System
FACILITY MAILING ADDRESS	1055 ARDEN AVE SW	ATLANTA	GA	30310	TRIS

NAICS Codes

No NAICS Codes returned.

SIC Codes

Data Source	SIC Code	Description	Primary
TRIS	3714	MOTOR VEHICLE PARTS AND ACCESSORIES	

Contacts

Affiliation Type	Full Name	Office Phone	Information System	Mailing Address
PUBLIC CONTACT	JERRY MOBLEY	4047587421	TRIS	

Organizations

No Organizations returned.

Alternative Names

No Alternative Names returned.

Query executed on: SEP-19-2007

Additional information for CERCLIS or TRI sites:

This information resource is not maintained, managed, or owned by the Environmental Protection Agency (EPA) or the Envirofacts Support Team. Neither the EPA nor the Envirofacts Support Team is responsible for their content or site operation. The Envirofacts Warehouse provides this reference only as a convenience to our Internet users.

- National Library of Medicine (NLM) EXIT EPA TOXMAP

Limited Phase II Assessment, Warehouse Property-1055 Arden Ave., SW, Atlanta, Georgia

APPENDIX C

LABORATORY ANALYTICAL RESULTS

Analytical Report

A6F0016

Project

1055 Arden Avenue

Project Number

BrownField/HSRA

June 15, 2016
Cardno -Marietta
2000 1st Drive, Suite 220
Marietta, GA 30062

Minority Women Business Enterprise
Small Disadvantaged Business Enterprise

Minority Women Business Enterprise
Small Disadvantaged Business Enterprise

6017 Financial Dr.
Norcross, GA 30071

Phone #:770-449-8800
Website: www.ftsanalytical.com

June 15, 2016

Gregg Stephens
Cardno -Marietta
2000 1st Drive, Suite 220
Marietta, GA 30062

RE: 1055 Arden Avenue

We are reporting the results of the analyses performed on the samples recieved on 6/3/2016 under the project name referenced above and identified as the lab Work Order A6F0016. All results being reported under this Report apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontracted lab, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reporting using all other available quality control methods.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by FTS Analytical Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise agreed upon. The samples received, and described as recorded in Work Order A6F0016 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise agreed upon. We reserve the right to return to you any unused samples, extracts, or solutions if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding standard practices, controlled/regulated substances, etc.)

We thank you for selecting FTS Analytical to serve your analytical needs. If you have any questions concerning this report, please do not hesitate to contact us at any time. We will be happy to help.

Sincerely,

J. Derek Rounsley
Project Manager

Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
A6F0016-01	SB1 (1-3')	Solid	01-Jun-2016 09:45	03-Jun-2016 11:00
A6F0016-02	SB1 (6')	Solid	01-Jun-2016 10:00	03-Jun-2016 11:00
A6F0016-03	SB2 (1-3')	Solid	01-Jun-2016 10:30	03-Jun-2016 11:00
A6F0016-04	SB2 (8')	Solid	01-Jun-2016 11:00	03-Jun-2016 11:00
A6F0016-05	SB3 (1-3')	Solid	01-Jun-2016 11:15	03-Jun-2016 11:00
A6F0016-06	SB3 (10')	Solid	01-Jun-2016 11:30	03-Jun-2016 11:00
A6F0016-07	SB4 (1-3')	Solid	01-Jun-2016 11:45	03-Jun-2016 11:00
A6F0016-08	SB4 (12')	Solid	01-Jun-2016 12:00	03-Jun-2016 11:00
A6F0016-09	SB5 (1-3')	Solid	01-Jun-2016 13:30	03-Jun-2016 11:00
A6F0016-10	SB5 (12')	Solid	01-Jun-2016 13:45	03-Jun-2016 11:00
A6F0016-11	SB6 (1-3')	Solid	01-Jun-2016 14:00	03-Jun-2016 11:00
A6F0016-12	SB6 (12')	Solid	01-Jun-2016 14:15	03-Jun-2016 11:00
A6F0016-13	SB7 (1-3')	Solid	01-Jun-2016 14:30	03-Jun-2016 11:00
A6F0016-14	SB7 (15')	Solid	01-Jun-2016 14:45	03-Jun-2016 11:00
A6F0016-15	SB8 (1-3')	Solid	01-Jun-2016 15:15	03-Jun-2016 11:00
A6F0016-16	SB8 (6')	Solid	01-Jun-2016 15:30	03-Jun-2016 11:00
A6F0016-17	SB9 (1-3')	Solid	02-Jun-2016 09:30	03-Jun-2016 11:00
A6F0016-18	SB9 (12')	Solid	02-Jun-2016 09:45	03-Jun-2016 11:00
A6F0016-19	SB10 (1-3')	Solid	02-Jun-2016 10:30	03-Jun-2016 11:00
A6F0016-20	SB10 (12')	Solid	02-Jun-2016 10:45	03-Jun-2016 11:00
A6F0016-21	SB15 (8')	Solid	01-Jun-2016 11:00	03-Jun-2016 11:00

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Analysis Case Narrative

SW8270_Soil
B6F0204

LCS/LCSD and MS/MSD recoveries exceed control limits. No target analytes were detected in the sample(s) at or above the respective limits of detection. No additional action is require.

SW8270_Soils
B6F0216

LCS recoveries exceed control limits. No target analytes were detected in the sample(s) at or above the respective limits of detection.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Analysis Case Narrative

SW8260B
Batch: B6F0180
The percent recoveries of Blank Spike and Blank Spike Duplicate was below QC limits for 2-Chloroethyl Vinyl Ether. The RPD of the Blank Spike, Blank Spike Duplicate was outside QC limits for Acetone. Acceptable per NELAC, Appendix D, Marginal Exceedances. The percent recovery of the Blank Spike Dulicate was above QC limits for Vinyl Chloride. There were no detectable concentrations reported in the associated samples.
Samples affected: A6F0016-01, -02, -03, -04, -05, -06, -07, 08, 09, 10, 11, 12, 13, 14, 15, 16.

The percent recovery of the Matrix Spike was outside QC limits for 1,2-Dibromo-3-chloropropane, 2-chloroethyl vinyl ether, 2-hexanone, 3,3-Dimethyl-1-butanol, 4-methyl pentanone, Styrene, Trichlorofluoromethane and Vinyl Acetate. Matrix Interference is suspected.
Samples affected: A6F0016-04.

The internal standard, 1,4-Dichlorobenzene-d4, was outside method acceptance criteria for the associated samples. Matrix interference is suspected. Confirmed by re-analysis.
Samples affected: A6F0016-09,-15.

SW8260B
Batch: B6F0197

The percent recoveries of Blank Spike and Blank Spike Duplicate was below than the reporting limits for 2-Chloroethyl Vinyl Ether and Trichlorofluoromethane. Acceptable per NELAC, Appendix D, Marginal Exceeddances. The samples are affected: A6F0016-17, 18, 19, 20, 21.

The percent recoveries of Matrix Spike and Matrix Spike Duplicate was outside the reporting limits for mutiple analytes. The percent recoveries of Blank Spike and Blank Spike Duplicate was within the limits, therefore satisfying the method requirements. the sample affected: A6F0016-20.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

MWBE SDBE
NELAC DoD Accredited

Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Hits Summary

(Not Including Subcontracted Analysis)

Sample: SB1 (1-3')

Lab ID: A6F0016-01

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**63.6**	0.100	%	1	6/8/16 12:37			SM 2540G
Barium	**84.5**	6.19	mg/Kg dry	1	6/8/16 13:07		7440-39-3	EPA 6010C
Chromium	**59.4**	6.19	mg/Kg dry	1	6/8/16 13:07		7440-47-3	EPA 6010C
Percent Moisture	**36.4**	0.100	%	1	6/8/16 12:37			SM 2540G
Lead	**18.5**	6.19	mg/Kg dry	1	6/8/16 13:07		7439-92-1	EPA 6010C
2-Butanone (MEK)	**0.0303**	0.0173	mg/Kg dry	1	6/6/16 19:57		78-93-3	EPA 8260B

Sample: SB1 (6')

Lab ID: A6F0016-02

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**73.2**	0.100	%	1	6/8/16 12:37			SM 2540G
Percent Moisture	**26.8**	0.100	%	1	6/8/16 12:37			SM 2540G
2-Butanone (MEK)	**0.0391**	0.0181	mg/Kg dry	1	6/6/16 20:22		78-93-3	EPA 8260B

Sample: SB2 (1-3')

Lab ID: A6F0016-03

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**62.6**	0.100	%	1	6/8/16 12:37			SM 2540G
Barium	**13.5**	7.39	mg/Kg dry	1	6/8/16 13:16		7440-39-3	EPA 6010C
Chromium	**19.2**	7.39	mg/Kg dry	1	6/8/16 13:16		7440-47-3	EPA 6010C
Percent Moisture	**37.4**	0.100	%	1	6/8/16 12:37			SM 2540G
Lead	**16.3**	7.39	mg/Kg dry	1	6/8/16 13:16		7439-92-1	EPA 6010C
Acetone	**0.195**	0.109	mg/Kg dry	1	6/6/16 20:46	F	67-64-1	EPA 8260B
2-Butanone (MEK)	**0.0548**	0.0217	mg/Kg dry	1	6/6/16 20:46		78-93-3	EPA 8260B

Sample: SB2 (8')

Lab ID: A6F0016-04

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**91.2**	0.100	%	1	6/8/16 12:37			SM 2540G
Percent Moisture	**8.84**	0.100	%	1	6/8/16 12:37			SM 2540G
Acetone	**0.0542**	0.0522	mg/Kg dry	1	6/6/16 21:10	F	67-64-1	EPA 8260B
2-Butanone (MEK)	**0.0192**	0.0104	mg/Kg dry	1	6/6/16 21:10		78-93-3	EPA 8260B

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Hits Summary

(Not Including Subcontracted Analysis)

(Continued)

Sample: SB3 (1-3')

Lab ID: A6F0016-05

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**72.0**	0.100	%	1	6/8/16 12:37			SM 2540G
Mercury	**0.140**	0.124	mg/Kg dry	1	6/9/16 12:58		7439-97-6	EPA 7471A
Barium	**37.3**	5.64	mg/Kg dry	1	6/8/16 13:18		7440-39-3	EPA 6010C
Chromium	**45.8**	5.64	mg/Kg dry	1	6/8/16 13:18		7440-47-3	EPA 6010C
Percent Moisture	**28.0**	0.100	%	1	6/8/16 12:37			SM 2540G
Lead	**29.2**	5.64	mg/Kg dry	1	6/8/16 13:18		7439-92-1	EPA 6010C
Acetone	**0.149**	0.105	mg/Kg dry	1	6/6/16 21:34	F	67-64-1	EPA 8260B
2-Butanone (MEK)	**0.0588**	0.0210	mg/Kg dry	1	6/6/16 21:34		78-93-3	EPA 8260B

Sample: SB3 (10')

Lab ID: A6F0016-06

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**85.0**	0.100	%	1	6/8/16 12:37			SM 2540G
Percent Moisture	**15.0**	0.100	%	1	6/8/16 12:37			SM 2540G
2-Butanone (MEK)	**0.0241**	0.0110	mg/Kg dry	1	6/6/16 21:58		78-93-3	EPA 8260B

Sample: SB4 (1-3')

Lab ID: A6F0016-07

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**70.8**	0.100	%	1	6/8/16 12:37			SM 2540G
Barium	**30.1**	6.66	mg/Kg dry	1	6/8/16 13:20		7440-39-3	EPA 6010C
Cadmium	**29.2**	6.66	mg/Kg dry	1	6/8/16 13:20		7440-43-9	EPA 6010C
Chromium	**37.6**	6.66	mg/Kg dry	1	6/8/16 13:20		7440-47-3	EPA 6010C
Percent Moisture	**29.2**	0.100	%	1	6/8/16 12:37			SM 2540G
Lead	**13.9**	6.66	mg/Kg dry	1	6/8/16 13:20		7439-92-1	EPA 6010C
Acetone	**0.0980**	0.0699	mg/Kg dry	1	6/6/16 22:21	F	67-64-1	EPA 8260B
2-Butanone (MEK)	**0.0241**	0.0140	mg/Kg dry	1	6/6/16 22:21		78-93-3	EPA 8260B

Sample: SB4 (12')

Lab ID: A6F0016-08

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**60.8**	0.100	%	1	6/8/16 12:37			SM 2540G
Percent Moisture	**39.2**	0.100	%	1	6/8/16 12:37			SM 2540G
Acetone	**0.212**	0.0688	mg/Kg dry	1	6/6/16 22:45	F	67-64-1	EPA 8260B
2-Butanone (MEK)	**0.0521**	0.0138	mg/Kg dry	1	6/6/16 22:45		78-93-3	EPA 8260B

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Hits Summary

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(Continued)

Sample: SB5 (1-3')

Lab ID: A6F0016-09

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**82.5**	0.100	%	1	6/8/16 12:37			SM 2540G
Arsenic	**16.5**	5.94	mg/Kg dry	1	6/8/16 13:22		7440-38-2	EPA 6010C
Barium	**97.5**	5.94	mg/Kg dry	1	6/8/16 13:22		7440-39-3	EPA 6010C
Chromium	**32.7**	5.94	mg/Kg dry	1	6/8/16 13:22		7440-47-3	EPA 6010C
Percent Moisture	**17.5**	0.100	%	1	6/8/16 12:37			SM 2540G
Lead	**80.2**	5.94	mg/Kg dry	1	6/8/16 13:22		7439-92-1	EPA 6010C
Acetone	**0.145**	0.0660	mg/Kg dry	1	6/6/16 23:09	F	67-64-1	EPA 8260B
2-Butanone (MEK)	**0.0321**	0.0132	mg/Kg dry	1	6/6/16 23:09		78-93-3	EPA 8260B

Sample: SB5 (12')

Lab ID: A6F0016-10

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**58.1**	0.100	%	1	6/8/16 12:37			SM 2540G
Percent Moisture	**41.9**	0.100	%	1	6/8/16 12:37			SM 2540G
2-Butanone (MEK)	**0.0514**	0.0192	mg/Kg dry	1	6/6/16 23:33		78-93-3	EPA 8260B

Sample: SB6 (1-3')

Lab ID: A6F0016-11

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**86.9**	0.100	%	1	6/8/16 12:37			SM 2540G
Barium	**58.2**	5.76	mg/Kg dry	1	6/8/16 13:24		7440-39-3	EPA 6010C
Cadmium	**25.0**	5.76	mg/Kg dry	1	6/8/16 13:24		7440-43-9	EPA 6010C
Chromium	**55.0**	5.76	mg/Kg dry	1	6/8/16 13:24		7440-47-3	EPA 6010C
Percent Moisture	**13.1**	0.100	%	1	6/8/16 12:37			SM 2540G
Lead	**25.6**	5.76	mg/Kg dry	1	6/8/16 13:24		7439-92-1	EPA 6010C
Acetone	**0.0555**	0.0526	mg/Kg dry	1	6/6/16 23:56	F	67-64-1	EPA 8260B
2-Butanone (MEK)	**0.0279**	0.0105	mg/Kg dry	1	6/6/16 23:56		78-93-3	EPA 8260B

Sample: SB6 (12')

Lab ID: A6F0016-12

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**75.2**	0.100	%	1	6/8/16 7:30			SM 2540G
Percent Moisture	**24.8**	0.100	%	1	6/8/16 7:30			SM 2540G
2-Butanone (MEK)	**0.0297**	0.0165	mg/Kg dry	1	6/7/16 0:21		78-93-3	EPA 8260B

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Hits Summary

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(Continued)

Sample: SB7 (1-3')

Lab ID: A6F0016-13

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**82.7**	0.100	%	1	6/8/16 7:30			SM 2540G
Barium	**133**	5.87	mg/Kg dry	1	6/8/16 13:26		7440-39-3	EPA 6010C
Chromium	**72.5**	5.87	mg/Kg dry	1	6/8/16 13:26		7440-47-3	EPA 6010C
Percent Moisture	**17.3**	0.100	%	1	6/8/16 7:30			SM 2540G
Lead	**31.5**	5.87	mg/Kg dry	1	6/8/16 13:26		7439-92-1	EPA 6010C
2-Butanone (MEK)	**0.0342**	0.0126	mg/Kg dry	1	6/7/16 0:45		78-93-3	EPA 8260B

Sample: SB7 (15')

Lab ID: A6F0016-14

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**69.0**	0.100	%	1	6/8/16 7:30			SM 2540G
Percent Moisture	**31.0**	0.100	%	1	6/8/16 7:30			SM 2540G

Sample: SB8 (1-3')

Lab ID: A6F0016-15

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**82.3**	0.100	%	1	6/8/16 7:30			SM 2540G
Barium	**59.2**	5.43	mg/Kg dry	1	6/8/16 13:34		7440-39-3	EPA 6010C
Cadmium	**23.0**	5.43	mg/Kg dry	1	6/8/16 13:34		7440-43-9	EPA 6010C
Chromium	**24.4**	5.43	mg/Kg dry	1	6/8/16 13:34		7440-47-3	EPA 6010C
Percent Moisture	**17.7**	0.100	%	1	6/8/16 7:30			SM 2540G
Lead	**34.9**	5.43	mg/Kg dry	1	6/8/16 13:34		7439-92-1	EPA 6010C
Acetone	**0.217**	0.0715	mg/Kg dry	1	6/7/16 1:33	F	67-64-1	EPA 8260B

Sample: SB8 (6')

Lab ID: A6F0016-16

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**76.8**	0.100	%	1	6/8/16 7:30			SM 2540G
Percent Moisture	**23.2**	0.100	%	1	6/8/16 7:30			SM 2540G
Acetone	**0.330**	0.0740	mg/Kg dry	1	6/7/16 1:58	F	67-64-1	EPA 8260B
2-Butanone (MEK)	**0.0368**	0.0148	mg/Kg dry	1	6/7/16 1:58		78-93-3	EPA 8260B

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Hits Summary

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(Continued)

Sample: SB9 (1-3')

Lab ID: A6F0016-17

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**76.9**	0.100	%	1	6/8/16 7:30			SM 2540G
Barium	**156**	6.44	mg/Kg dry	1	6/8/16 13:36		7440-39-3	EPA 6010C
Chromium	**56.0**	6.44	mg/Kg dry	1	6/8/16 13:36		7440-47-3	EPA 6010C
Percent Moisture	**23.1**	0.100	%	1	6/8/16 7:30			SM 2540G
Lead	**91.3**	6.44	mg/Kg dry	1	6/8/16 13:36		7439-92-1	EPA 6010C
Acetone	**0.300**	0.0650	mg/Kg dry	1	6/7/16 12:32		67-64-1	EPA 8260B
2-Butanone (MEK)	**0.0319**	0.0130	mg/Kg dry	1	6/7/16 12:32		78-93-3	EPA 8260B

Sample: SB9 (12')

Lab ID: A6F0016-18

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**87.8**	0.100	%	1	6/8/16 7:30			SM 2540G
Percent Moisture	**12.2**	0.100	%	1	6/8/16 7:30			SM 2540G

Sample: SB10 (1-3')

Lab ID: A6F0016-19

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**64.0**	0.100	%	1	6/8/16 7:30			SM 2540G
Barium	**379**	6.45	mg/Kg dry	1	6/8/16 13:38		7440-39-3	EPA 6010C
Chromium	**65.5**	6.45	mg/Kg dry	1	6/8/16 13:38		7440-47-3	EPA 6010C
Percent Moisture	**36.0**	0.100	%	1	6/8/16 7:30			SM 2540G
Lead	**30.6**	6.45	mg/Kg dry	1	6/8/16 13:38		7439-92-1	EPA 6010C
Acetone	**0.0785**	0.0781	mg/Kg dry	1	6/7/16 16:10		67-64-1	EPA 8260B
2-Butanone (MEK)	**0.0387**	0.0156	mg/Kg dry	1	6/7/16 16:10		78-93-3	EPA 8260B

Sample: SB10 (12')

Lab ID: A6F0016-20

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**82.2**	0.100	%	1	6/8/16 7:30			SM 2540G
Percent Moisture	**17.8**	0.100	%	1	6/8/16 7:30			SM 2540G
2-Butanone (MEK)	**0.0217**	0.0122	mg/Kg dry	1	6/7/16 16:42		78-93-3	EPA 8260B

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Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Hits Summary

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(Continued)

Sample: SB15 (8')

Lab ID: A6F0016-21

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
% Solids	**77.5**	0.100	%	1	6/8/16 7:30			SM 2540G
Percent Moisture	**22.5**	0.100	%	1	6/8/16 7:30			SM 2540G
Acetone	**0.0670**	0.0645	mg/Kg dry	1	6/7/16 17:06		67-64-1	EPA 8260B
2-Butanone (MEK)	**0.0302**	0.0129	mg/Kg dry	1	6/7/16 17:06		78-93-3	EPA 8260B

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results

Client Sample ID: SB1 (1-3')
Lab Sample ID: A6F0016-01 (Solid)

Sampled:
6/1/16 9:45

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
7 RCRA Metals by Method 6010C								
Arsenic	ND	6.19	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:07	XU	7440-38-2
Barium	**84.5**	6.19	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:07		7440-39-3
Cadmium	ND	6.19	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:07	XU	7440-43-9
Chromium	**59.4**	6.19	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:07		7440-47-3
Lead	**18.5**	6.19	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:07		7439-92-1
Selenium	ND	6.19	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:07	XU	7782-49-2
Silver	ND	6.19	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:07	XU	7440-22-4
Percent Moisture by Method 2540G								
% Solids	**63.6**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
Percent Moisture	**36.4**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	120-82-1
1,2-Dichlorobenzene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	95-50-1
1,3-Dichlorobenzene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	541-73-1
1,4-Dichlorobenzene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	106-46-7
1-Methylnaphthalene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	90-12-0
2,4,5-Trichlorophenol	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	95-95-4
2,4,6-Trichlorophenol	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	88-06-2
2,4-Dichlorophenol	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	120-83-2
2,4-Dimethylphenol	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	105-67-9
2,4-Dinitrophenol	ND	1.05	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	51-28-5
2,4-Dinitrotoluene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	121-14-2
2,6-Dinitrotoluene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	606-20-2
2-Chloronaphthalene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	91-58-7
2-Chlorophenol	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	95-57-8
2-Methylnaphthalene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	91-57-6
2-Methylphenol	ND	1.05	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	95-48-7
2-Nitroaniline	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	88-74-4
2-Nitrophenol	ND	1.05	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	88-75-5
3&4-Methylphenol	ND	1.31	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	91-94-1
3-Nitroaniline	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	534-52-1
4-Bromophenyl-phenylether	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	101-55-3
4-chloro-3-methylphenol	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	59-50-7
4-Nitroaniline	ND	1.05	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	100-01-6
4-Nitrophenol	ND	1.05	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	100-02-7

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB1 (1-3') (Continued)
Lab Sample ID: A6F0016-01 (Solid)

Sampled:
6/1/16 9:45

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Acenaphthene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	83-32-9
Acenaphthylene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	62-53-3
Anthracene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	120-12-7
Benzo(a)anthracene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	56-55-3
Benzo(a)pyrene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	50-32-8
Benzo(b)fluoranthene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	205-99-2
Benzo(g,h,i)perylene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	191-24-2
Benzo(k)fluoranthene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	207-08-9
Benzoic Acid	ND	1.05	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	65-85-0
Benzyl Alcohol	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	100-51-6
Butyl Benzyl Phthalate	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	111-91-1
bis(2-chloroethyl) ether	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	117-81-7
Chrysene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	53-70-3
Dibenzofuran	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	132-64-9
Diethyl Phthalate	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	84-66-2
Dimethyl Phthalate	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	131-11-3
di-n-Butyl Phthalate	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	84-74-2
di-n-Octyl Phthalate	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	117-84-0
Fluoranthene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	206-44-0
Fluorene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	86-73-7
Hexachlorobenzene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	118-74-1
Hexachlorobutadiene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	87-68-3
Hexachlorocyclopentadiene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	77-47-4
Hexachloroethane	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	193-39-5
Isophorone	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	78-59-1
Naphthalene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	91-20-3
Nitrobenzene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	98-95-3
N-Nitrosodimethylamine	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	621-64-7
N-Nitrosodiphenylamine	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	86-30-6
Pentachlorophenol	ND	1.05	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	87-86-5
Phenanthrene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	85-01-8
Phenol	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	108-95-2

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB1 (1-3') (Continued)
Lab Sample ID: A6F0016-01 (Solid)

Sampled:
6/1/16 9:45

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Pyrene	ND	0.523	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:11	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*80%*	*19-122*			6/10/16 6:11		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*52%*	*30-115*			6/10/16 6:11		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*55%*	*25-121*			6/10/16 6:11		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*51%*	*23-120*			6/10/16 6:11		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*65%*	*15-110*			6/10/16 6:11		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*79%*	*18-137*			6/10/16 6:11		1718-51-0
Total Mercury Analysis by Method 7471A								
Mercury	ND	0.146	mg/Kg dry	1	6/7/16 8:29	6/9/16 12:58	U	7439-97-6
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	630-20-6
1,1,1-Trichloroethane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	76-13-1
1,1,2-Trichloroethane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	79-00-5
1,1-Dichloroethane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	75-34-3
1,1-Dichloroethene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	75-35-4
1,1-Dichloropropene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	87-61-6
1,2,3-Trichloropropane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	106-93-4
1,2-Dichlorobenzene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	95-50-1
1,2-Dichloroethane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	107-06-2
1,2-Dichloropropane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	108-67-8
1,3-Dichlorobenzene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	541-73-1
1,3-Dichloropropane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	142-28-9
1,4-Dichlorobenzene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	106-46-7
2,2-Dichloropropane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0173	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U, L	110-75-8
2-Chlorotoluene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	95-49-8
2-Hexanone	ND	0.0864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	591-78-6
3,3-Dimethyl-1-butanol	ND	0.0864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	624-95-3

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB1 (1-3') (Continued)
Lab Sample ID: A6F0016-01 (Solid)

Sampled:
6/1/16 9:45

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
4-Chlorotoluene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.0864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	108-10-1
Acetone	ND	0.0864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U, F	67-64-1
Acrolein	ND	0.0173	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	107-02-8
Acrylonitrile	ND	0.0173	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	107-13-1
Benzene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	71-43-2
Bromobenzene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	108-86-1
Bromochloromethane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	74-97-5
Bromodichloromethane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	75-27-4
Bromoform	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	74-83-9
Carbon disulfide	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	75-15-0
Carbon tetrachloride	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	56-23-5
Chlorobenzene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	108-90-7
Chloroethane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	75-00-3
Chloroform	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	74-87-3
cis-1,2-Dichloroethene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	156-59-4
cis-1,3-Dichloropropene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	10061-01-5
Cyclohexane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	110-82-7
Dibromochloromethane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	124-48-1
Dibromomethane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	74-95-3
Dichlorodifluoromethane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	60-29-7
Ethyl methacrylate	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	97-63-2
Ethylbenzene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	100-41-4
Hexachlorobutadiene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	87-68-3
Isopropylbenzene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	98-82-8
m,p-Xylenes	ND	0.0173	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	179601-23-1
2-Butanone (MEK)	**0.0303**	0.0173	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57		78-93-3
Methyl acetate	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0173	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	1634-04-4
Methylcyclohexane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	108-87-2
Methylene Chloride	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	75-09-2
Naphthalene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	91-20-3
n-Butylbenzene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	104-51-8
n-Propylbenzene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	103-65-1
o-Xylene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	99-87-6

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB1 (1-3') (Continued)
Lab Sample ID: A6F0016-01 (Solid)

Sampled:
6/1/16 9:45

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
sec-Butylbenzene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	135-98-8
Styrene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	100-42-5
tert-Butylbenzene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	98-06-6
Tetrachloroethylene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	127-18-4
Tetrahydrofuran	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	109-99-9
Toluene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	108-88-3
Total Xylenes	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	156-60-5
trans-1,3-Dichloropropene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	1006-10-26
Trichloroethylene	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	79-01-6
Trichlorofluoromethane	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	75-69-4
Vinyl acetate	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U	108-05-4
Vinyl chloride	ND	0.00864	mg/Kg dry	1	6/6/16 15:59	6/6/16 19:57	U, H	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*103%*	*50-150*			6/6/16 19:57		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*112%*	*57-158*			6/6/16 19:57		460-00-4
Surrogate: Toluene-D8 (SUR)		*95%*	*50-150*			6/6/16 19:57		2037-26-5

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB1 (6')
Lab Sample ID: A6F0016-02 (Solid)

Sampled:
6/1/16 10:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Percent Moisture by Method 2540G								
% Solids	**73.2**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
Percent Moisture	**26.8**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	120-82-1
1,2-Dichlorobenzene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	95-50-1
1,3-Dichlorobenzene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	541-73-1
1,4-Dichlorobenzene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	106-46-7
1-Methylnaphthalene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	90-12-0
2,4,5-Trichlorophenol	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	95-95-4
2,4,6-Trichlorophenol	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	88-06-2
2,4-Dichlorophenol	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	120-83-2
2,4-Dimethylphenol	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	105-67-9
2,4-Dinitrophenol	ND	0.907	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	51-28-5
2,4-Dinitrotoluene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	121-14-2
2,6-Dinitrotoluene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	606-20-2
2-Chloronaphthalene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	91-58-7
2-Chlorophenol	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	95-57-8
2-Methylnaphthalene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	91-57-6
2-Methylphenol	ND	0.907	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	95-48-7
2-Nitroaniline	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	88-74-4
2-Nitrophenol	ND	0.907	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	88-75-5
3&4-Methylphenol	ND	1.13	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	91-94-1
3-Nitroaniline	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	534-52-1
4-Bromophenyl-phenylether	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	101-55-3
4-chloro-3-methylphenol	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	59-50-7
4-Nitroaniline	ND	0.907	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	100-01-6
4-Nitrophenol	ND	0.907	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	100-02-7
Acenaphthene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	83-32-9
Acenaphthylene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	62-53-3
Anthracene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	120-12-7
Benzo(a)anthracene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	56-55-3
Benzo(a)pyrene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	50-32-8
Benzo(b)fluoranthene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	205-99-2
Benzo(g,h,i)perylene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	191-24-2
Benzo(k)fluoranthene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	207-08-9

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB1 (6') (Continued)
Lab Sample ID: A6F0016-02 (Solid)

Sampled:
6/1/16 10:00

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Benzoic Acid	ND	0.907	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	65-85-0
Benzyl Alcohol	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	100-51-6
Butyl Benzyl Phthalate	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	111-91-1
bis(2-chloroethyl) ether	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	117-81-7
Chrysene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	53-70-3
Dibenzofuran	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	132-64-9
Diethyl Phthalate	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	84-66-2
Dimethyl Phthalate	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	131-11-3
di-n-Butyl Phthalate	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	84-74-2
di-n-Octyl Phthalate	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	117-84-0
Fluoranthene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	206-44-0
Fluorene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	86-73-7
Hexachlorobenzene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	118-74-1
Hexachlorobutadiene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	87-68-3
Hexachlorocyclopentadiene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	77-47-4
Hexachloroethane	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	193-39-5
Isophorone	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	78-59-1
Naphthalene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	91-20-3
Nitrobenzene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	98-95-3
N-Nitrosodimethylamine	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	621-64-7
N-Nitrosodiphenylamine	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	86-30-6
Pentachlorophenol	ND	0.907	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	87-86-5
Phenanthrene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	85-01-8
Phenol	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	108-95-2
Pyrene	ND	0.454	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:12	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*65%*	*19-122*			6/13/16 13:12		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*62%*	*30-115*			6/13/16 13:12		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*57%*	*25-121*			6/13/16 13:12		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*56%*	*23-120*			6/13/16 13:12		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*60%*	*15-110*			6/13/16 13:12		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*68%*	*18-137*			6/13/16 13:12		1718-51-0

VOCs by Method 8260B

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB1 (6') (Continued)
Lab Sample ID: A6F0016-02 (Solid)

Sampled:
6/1/16 10:00

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
1,1,1,2-Tetrachloroethane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	630-20-6
1,1,1-Trichloroethane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	76-13-1
1,1,2-Trichloroethane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	79-00-5
1,1-Dichloroethane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	75-34-3
1,1-Dichloroethene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	75-35-4
1,1-Dichloropropene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	87-61-6
1,2,3-Trichloropropane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	106-93-4
1,2-Dichlorobenzene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	95-50-1
1,2-Dichloroethane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	107-06-2
1,2-Dichloropropane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	108-67-8
1,3-Dichlorobenzene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	541-73-1
1,3-Dichloropropane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	142-28-9
1,4-Dichlorobenzene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	106-46-7
2,2-Dichloropropane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0181	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U, L	110-75-8
2-Chlorotoluene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	95-49-8
2-Hexanone	ND	0.0903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	591-78-6
3,3-Dimethyl-1-butanol	ND	0.0903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	624-95-3
4-Chlorotoluene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.0903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	108-10-1
Acetone	ND	0.0903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U, F	67-64-1
Acrolein	ND	0.0181	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	107-02-8
Acrylonitrile	ND	0.0181	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	107-13-1
Benzene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	71-43-2
Bromobenzene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	108-86-1
Bromochloromethane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	74-97-5
Bromodichloromethane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	75-27-4
Bromoform	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	74-83-9
Carbon disulfide	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	75-15-0
Carbon tetrachloride	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	56-23-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB1 (6') (Continued)
Lab Sample ID: A6F0016-02 (Solid)

Sampled:
6/1/16 10:00

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Chlorobenzene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	108-90-7
Chloroethane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	75-00-3
Chloroform	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	74-87-3
cis-1,2-Dichloroethene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	156-59-4
cis-1,3-Dichloropropene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	10061-01-5
Cyclohexane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	110-82-7
Dibromochloromethane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	124-48-1
Dibromomethane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	74-95-3
Dichlorodifluoromethane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	60-29-7
Ethyl methacrylate	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	97-63-2
Ethylbenzene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	100-41-4
Hexachlorobutadiene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	87-68-3
Isopropylbenzene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	98-82-8
m,p-Xylenes	ND	0.0181	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	179601-23-1
2-Butanone (MEK)	**0.0391**	0.0181	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22		78-93-3
Methyl acetate	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0181	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	1634-04-4
Methylcyclohexane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	108-87-2
Methylene Chloride	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	75-09-2
Naphthalene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	91-20-3
n-Butylbenzene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	104-51-8
n-Propylbenzene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	103-65-1
o-Xylene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	99-87-6
sec-Butylbenzene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	135-98-8
Styrene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	100-42-5
tert-Butylbenzene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	98-06-6
Tetrachloroethylene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	127-18-4
Tetrahydrofuran	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	109-99-9
Toluene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	108-88-3
Total Xylenes	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	156-60-5
trans-1,3-Dichloropropene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	1006-10-26
Trichloroethylene	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	79-01-6
Trichlorofluoromethane	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	75-69-4
Vinyl acetate	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U	108-05-4
Vinyl chloride	ND	0.00903	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:22	U, H	75-01-4

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB1 (6') (Continued)
Lab Sample ID: A6F0016-02 (Solid)

Sampled:
6/1/16 10:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*102%*	*50-150*			6/6/16 20:22		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*107%*	*57-158*			6/6/16 20:22		460-00-4
Surrogate: Toluene-D8 (SUR)		*95%*	*50-150*			6/6/16 20:22		2037-26-5

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No duplication of this report is allowed, except in its entirety.

Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB2 (1-3')
Lab Sample ID: A6F0016-03 (Solid)

Sampled:
6/1/16 10:30

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
7 RCRA Metals by Method 6010C								
Arsenic	ND	7.39	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:16	U	7440-38-2
Barium	**13.5**	7.39	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:16		7440-39-3
Cadmium	ND	7.39	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:16	U	7440-43-9
Chromium	**19.2**	7.39	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:16		7440-47-3
Lead	**16.3**	7.39	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:16		7439-92-1
Selenium	ND	7.39	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:16	U	7782-49-2
Silver	ND	7.39	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:16	U	7440-22-4
Percent Moisture by Method 2540G								
% Solids	**62.6**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
Percent Moisture	**37.4**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	120-82-1
1,2-Dichlorobenzene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	95-50-1
1,3-Dichlorobenzene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	541-73-1
1,4-Dichlorobenzene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	106-46-7
1-Methylnaphthalene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	90-12-0
2,4,5-Trichlorophenol	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	95-95-4
2,4,6-Trichlorophenol	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	88-06-2
2,4-Dichlorophenol	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	120-83-2
2,4-Dimethylphenol	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	105-67-9
2,4-Dinitrophenol	ND	1.06	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	51-28-5
2,4-Dinitrotoluene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	121-14-2
2,6-Dinitrotoluene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	606-20-2
2-Chloronaphthalene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	91-58-7
2-Chlorophenol	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	95-57-8
2-Methylnaphthalene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	91-57-6
2-Methylphenol	ND	1.06	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	95-48-7
2-Nitroaniline	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	88-74-4
2-Nitrophenol	ND	1.06	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	88-75-5
3&4-Methylphenol	ND	1.33	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	91-94-1
3-Nitroaniline	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	534-52-1
4-Bromophenyl-phenylether	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	101-55-3
4-chloro-3-methylphenol	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	59-50-7
4-Nitroaniline	ND	1.06	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	100-01-6
4-Nitrophenol	ND	1.06	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	100-02-7

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB2 (1-3') (Continued)
Lab Sample ID: A6F0016-03 (Solid)

Sampled:
6/1/16 10:30

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Acenaphthene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	83-32-9
Acenaphthylene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	62-53-3
Anthracene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	120-12-7
Benzo(a)anthracene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	56-55-3
Benzo(a)pyrene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	50-32-8
Benzo(b)fluoranthene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	205-99-2
Benzo(g,h,i)perylene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	191-24-2
Benzo(k)fluoranthene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	207-08-9
Benzoic Acid	ND	1.06	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	65-85-0
Benzyl Alcohol	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	100-51-6
Butyl Benzyl Phthalate	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	111-91-1
bis(2-chloroethyl) ether	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	117-81-7
Chrysene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	53-70-3
Dibenzofuran	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	132-64-9
Diethyl Phthalate	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	84-66-2
Dimethyl Phthalate	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	131-11-3
di-n-Butyl Phthalate	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	84-74-2
di-n-Octyl Phthalate	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	117-84-0
Fluoranthene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	206-44-0
Fluorene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	86-73-7
Hexachlorobenzene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	118-74-1
Hexachlorobutadiene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	87-68-3
Hexachlorocyclopentadiene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	77-47-4
Hexachloroethane	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	193-39-5
Isophorone	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	78-59-1
Naphthalene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	91-20-3
Nitrobenzene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	98-95-3
N-Nitrosodimethylamine	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	621-64-7
N-Nitrosodiphenylamine	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	86-30-6
Pentachlorophenol	ND	1.06	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	87-86-5
Phenanthrene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	85-01-8
Phenol	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	108-95-2

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB2 (1-3') (Continued)
Lab Sample ID: A6F0016-03 (Solid)

Sampled:
6/1/16 10:30

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Pyrene	ND	0.531	mg/Kg dry	1	6/8/16 15:00	6/10/16 6:39	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*72%*	*19-122*			6/10/16 6:39		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*33%*	*30-115*			6/10/16 6:39		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*27%*	*25-121*			6/10/16 6:39		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*26%*	*23-120*			6/10/16 6:39		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*36%*	*15-110*			6/10/16 6:39		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*76%*	*18-137*			6/10/16 6:39		1718-51-0
Total Mercury Analysis by Method 7471A								
Mercury	ND	0.160	mg/Kg dry	1	6/7/16 8:29	6/9/16 12:58	U	7439-97-6
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	630-20-6
1,1,1-Trichloroethane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	76-13-1
1,1,2-Trichloroethane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	79-00-5
1,1-Dichloroethane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	75-34-3
1,1-Dichloroethene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	75-35-4
1,1-Dichloropropene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	87-61-6
1,2,3-Trichloropropane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	106-93-4
1,2-Dichlorobenzene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	95-50-1
1,2-Dichloroethane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	107-06-2
1,2-Dichloropropane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	108-67-8
1,3-Dichlorobenzene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	541-73-1
1,3-Dichloropropane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	142-28-9
1,4-Dichlorobenzene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	106-46-7
2,2-Dichloropropane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0217	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U, L	110-75-8
2-Chlorotoluene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	95-49-8
2-Hexanone	ND	0.109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	591-78-6
3,3-Dimethyl-1-butanol	ND	0.109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	624-95-3

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB2 (1-3') (Continued)
Lab Sample ID: A6F0016-03 (Solid)

Sampled:
6/1/16 10:30

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
4-Chlorotoluene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	108-10-1
Acetone	**0.195**	0.109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	F	67-64-1
Acrolein	ND	0.0217	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	107-02-8
Acrylonitrile	ND	0.0217	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	107-13-1
Benzene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	71-43-2
Bromobenzene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	108-86-1
Bromochloromethane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	74-97-5
Bromodichloromethane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	75-27-4
Bromoform	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	74-83-9
Carbon disulfide	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	75-15-0
Carbon tetrachloride	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	56-23-5
Chlorobenzene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	108-90-7
Chloroethane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	75-00-3
Chloroform	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	74-87-3
cis-1,2-Dichloroethene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	156-59-4
cis-1,3-Dichloropropene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	10061-01-5
Cyclohexane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	110-82-7
Dibromochloromethane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	124-48-1
Dibromomethane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	74-95-3
Dichlorodifluoromethane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	60-29-7
Ethyl methacrylate	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	97-63-2
Ethylbenzene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	100-41-4
Hexachlorobutadiene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	87-68-3
Isopropylbenzene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	98-82-8
m,p-Xylenes	ND	0.0217	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	179601-23-1
2-Butanone (MEK)	**0.0548**	0.0217	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46		78-93-3
Methyl acetate	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0217	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	1634-04-4
Methylcyclohexane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	108-87-2
Methylene Chloride	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	75-09-2
Naphthalene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	91-20-3
n-Butylbenzene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	104-51-8
n-Propylbenzene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	103-65-1
o-Xylene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	99-87-6

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB2 (1-3') (Continued)
Lab Sample ID: A6F0016-03 (Solid)

Sampled:
6/1/16 10:30

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
sec-Butylbenzene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	135-98-8
Styrene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	100-42-5
tert-Butylbenzene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	98-06-6
Tetrachloroethylene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	127-18-4
Tetrahydrofuran	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	109-99-9
Toluene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	108-88-3
Total Xylenes	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	156-60-5
trans-1,3-Dichloropropene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	1006-10-26
Trichloroethylene	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	79-01-6
Trichlorofluoromethane	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	75-69-4
Vinyl acetate	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U	108-05-4
Vinyl chloride	ND	0.0109	mg/Kg dry	1	6/6/16 15:59	6/6/16 20:46	U, H	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*105%*	*50-150*			6/6/16 20:46		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*107%*	*57-158*			6/6/16 20:46		460-00-4
Surrogate: Toluene-D8 (SUR)		*96%*	*50-150*			6/6/16 20:46		2037-26-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB2 (8')
Lab Sample ID: A6F0016-04 (Solid)

Sampled:
6/1/16 11:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Percent Moisture by Method 2540G								
% Solids	**91.2**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
Percent Moisture	**8.84**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	120-82-1
1,2-Dichlorobenzene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	95-50-1
1,3-Dichlorobenzene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	541-73-1
1,4-Dichlorobenzene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	106-46-7
1-Methylnaphthalene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	90-12-0
2,4,5-Trichlorophenol	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	95-95-4
2,4,6-Trichlorophenol	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	88-06-2
2,4-Dichlorophenol	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	120-83-2
2,4-Dimethylphenol	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	105-67-9
2,4-Dinitrophenol	ND	0.727	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	51-28-5
2,4-Dinitrotoluene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	121-14-2
2,6-Dinitrotoluene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	606-20-2
2-Chloronaphthalene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	91-58-7
2-Chlorophenol	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	95-57-8
2-Methylnaphthalene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	91-57-6
2-Methylphenol	ND	0.727	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	95-48-7
2-Nitroaniline	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	88-74-4
2-Nitrophenol	ND	0.727	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	88-75-5
3&4-Methylphenol	ND	0.910	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	91-94-1
3-Nitroaniline	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	534-52-1
4-Bromophenyl-phenylether	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	101-55-3
4-chloro-3-methylphenol	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	59-50-7
4-Nitroaniline	ND	0.727	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	100-01-6
4-Nitrophenol	ND	0.727	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	100-02-7
Acenaphthene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	83-32-9
Acenaphthylene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	62-53-3
Anthracene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	120-12-7
Benzo(a)anthracene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	56-55-3
Benzo(a)pyrene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	50-32-8
Benzo(b)fluoranthene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	205-99-2
Benzo(g,h,i)perylene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	191-24-2
Benzo(k)fluoranthene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	207-08-9

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB2 (8') (Continued)
Lab Sample ID: A6F0016-04 (Solid)

Sampled:
6/1/16 11:00

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Benzoic Acid	ND	0.727	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	65-85-0
Benzyl Alcohol	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	100-51-6
Butyl Benzyl Phthalate	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	111-91-1
bis(2-chloroethyl) ether	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	117-81-7
Chrysene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	53-70-3
Dibenzofuran	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	132-64-9
Diethyl Phthalate	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	84-66-2
Dimethyl Phthalate	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	131-11-3
di-n-Butyl Phthalate	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	84-74-2
di-n-Octyl Phthalate	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	117-84-0
Fluoranthene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	206-44-0
Fluorene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	86-73-7
Hexachlorobenzene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	118-74-1
Hexachlorobutadiene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	87-68-3
Hexachlorocyclopentadiene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	77-47-4
Hexachloroethane	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	193-39-5
Isophorone	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	78-59-1
Naphthalene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	91-20-3
Nitrobenzene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	98-95-3
N-Nitrosodimethylamine	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	621-64-7
N-Nitrosodiphenylamine	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	86-30-6
Pentachlorophenol	ND	0.727	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	87-86-5
Phenanthrene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	85-01-8
Phenol	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	108-95-2
Pyrene	ND	0.364	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:00	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*40%*	*19-122*			6/9/16 21:00		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*33%*	*30-115*			6/9/16 21:00		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*39%*	*25-121*			6/9/16 21:00		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*33%*	*23-120*			6/9/16 21:00		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*39%*	*15-110*			6/9/16 21:00		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*93%*	*18-137*			6/9/16 21:00		1718-51-0

VOCs by Method 8260B

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB2 (8') (Continued)
Lab Sample ID: A6F0016-04 (Solid)

Sampled:
6/1/16 11:00

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
1,1,1,2-Tetrachloroethane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	630-20-6
1,1,1-Trichloroethane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	76-13-1
1,1,2-Trichloroethane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	79-00-5
1,1-Dichloroethane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	75-34-3
1,1-Dichloroethene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	75-35-4
1,1-Dichloropropene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	87-61-6
1,2,3-Trichloropropane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	XU	96-12-8
1,2-Dibromoethane (EDB)	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	106-93-4
1,2-Dichlorobenzene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	95-50-1
1,2-Dichloroethane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	107-06-2
1,2-Dichloropropane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	108-67-8
1,3-Dichlorobenzene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	541-73-1
1,3-Dichloropropane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	142-28-9
1,4-Dichlorobenzene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	106-46-7
2,2-Dichloropropane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0104	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U, L	110-75-8
2-Chlorotoluene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	95-49-8
2-Hexanone	ND	0.0522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	XU	591-78-6
3,3-Dimethyl-1-butanol	ND	0.0522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	XU	624-95-3
4-Chlorotoluene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.0522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	XU	108-10-1
Acetone	**0.0542**	0.0522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	F	67-64-1
Acrolein	ND	0.0104	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	107-02-8
Acrylonitrile	ND	0.0104	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	107-13-1
Benzene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	71-43-2
Bromobenzene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	108-86-1
Bromochloromethane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	74-97-5
Bromodichloromethane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	75-27-4
Bromoform	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	74-83-9
Carbon disulfide	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	75-15-0
Carbon tetrachloride	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	56-23-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB2 (8') (Continued)
Lab Sample ID: A6F0016-04 (Solid)

Sampled:
6/1/16 11:00

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Chlorobenzene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	108-90-7
Chloroethane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	75-00-3
Chloroform	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	74-87-3
cis-1,2-Dichloroethene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	156-59-4
cis-1,3-Dichloropropene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	10061-01-5
Cyclohexane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	110-82-7
Dibromochloromethane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	124-48-1
Dibromomethane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	74-95-3
Dichlorodifluoromethane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	60-29-7
Ethyl methacrylate	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	97-63-2
Ethylbenzene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	100-41-4
Hexachlorobutadiene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	87-68-3
Isopropylbenzene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	98-82-8
m,p-Xylenes	ND	0.0104	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	179601-23-1
2-Butanone (MEK)	**0.0192**	0.0104	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10		78-93-3
Methyl acetate	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0104	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	1634-04-4
Methylcyclohexane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	108-87-2
Methylene Chloride	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	75-09-2
Naphthalene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	91-20-3
n-Butylbenzene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	104-51-8
n-Propylbenzene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	103-65-1
o-Xylene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	99-87-6
sec-Butylbenzene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	135-98-8
Styrene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	XU	100-42-5
tert-Butylbenzene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	98-06-6
Tetrachloroethylene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	127-18-4
Tetrahydrofuran	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	109-99-9
Toluene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	108-88-3
Total Xylenes	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	156-60-5
trans-1,3-Dichloropropene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	1006-10-26
Trichloroethylene	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U	79-01-6
Trichlorofluoromethane	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	XU	75-69-4
Vinyl acetate	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	XU	108-05-4
Vinyl chloride	ND	0.00522	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:10	U, H	75-01-4

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB2 (8') (Continued)
Lab Sample ID: A6F0016-04 (Solid)

Sampled:
6/1/16 11:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*102%*	*50-150*			6/6/16 21:10		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*105%*	*57-158*			6/6/16 21:10		460-00-4
Surrogate: Toluene-D8 (SUR)		*94%*	*50-150*			6/6/16 21:10		2037-26-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB3 (1-3')
Lab Sample ID: A6F0016-05 (Solid)

Sampled:
6/1/16 11:15

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
7 RCRA Metals by Method 6010C								
Arsenic	ND	5.64	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:18	U	7440-38-2
Barium	**37.3**	5.64	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:18		7440-39-3
Cadmium	ND	5.64	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:18	U	7440-43-9
Chromium	**45.8**	5.64	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:18		7440-47-3
Lead	**29.2**	5.64	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:18		7439-92-1
Selenium	ND	5.64	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:18	U	7782-49-2
Silver	ND	5.64	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:18	U	7440-22-4
Percent Moisture by Method 2540G								
% Solids	**72.0**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
Percent Moisture	**28.0**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	120-82-1
1,2-Dichlorobenzene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	95-50-1
1,3-Dichlorobenzene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	541-73-1
1,4-Dichlorobenzene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	106-46-7
1-Methylnaphthalene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	90-12-0
2,4,5-Trichlorophenol	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	95-95-4
2,4,6-Trichlorophenol	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	88-06-2
2,4-Dichlorophenol	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	120-83-2
2,4-Dimethylphenol	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	105-67-9
2,4-Dinitrophenol	ND	0.924	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	51-28-5
2,4-Dinitrotoluene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	121-14-2
2,6-Dinitrotoluene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	606-20-2
2-Chloronaphthalene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	91-58-7
2-Chlorophenol	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	95-57-8
2-Methylnaphthalene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	91-57-6
2-Methylphenol	ND	0.924	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	95-48-7
2-Nitroaniline	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	88-74-4
2-Nitrophenol	ND	0.924	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	88-75-5
3&4-Methylphenol	ND	1.16	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	91-94-1
3-Nitroaniline	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	534-52-1
4-Bromophenyl-phenylether	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	101-55-3
4-chloro-3-methylphenol	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	59-50-7
4-Nitroaniline	ND	0.924	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	100-01-6
4-Nitrophenol	ND	0.924	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	100-02-7

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB3 (1-3') (Continued)
Lab Sample ID: A6F0016-05 (Solid)

Sampled:
6/1/16 11:15

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Acenaphthene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	83-32-9
Acenaphthylene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	62-53-3
Anthracene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	120-12-7
Benzo(a)anthracene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	56-55-3
Benzo(a)pyrene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	50-32-8
Benzo(b)fluoranthene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	205-99-2
Benzo(g,h,i)perylene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	191-24-2
Benzo(k)fluoranthene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	207-08-9
Benzoic Acid	ND	0.924	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	65-85-0
Benzyl Alcohol	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	100-51-6
Butyl Benzyl Phthalate	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	111-91-1
bis(2-chloroethyl) ether	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	117-81-7
Chrysene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	53-70-3
Dibenzofuran	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	132-64-9
Diethyl Phthalate	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	84-66-2
Dimethyl Phthalate	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	131-11-3
di-n-Butyl Phthalate	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	84-74-2
di-n-Octyl Phthalate	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	117-84-0
Fluoranthene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	206-44-0
Fluorene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	86-73-7
Hexachlorobenzene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	118-74-1
Hexachlorobutadiene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	87-68-3
Hexachlorocyclopentadiene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	77-47-4
Hexachloroethane	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	193-39-5
Isophorone	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	78-59-1
Naphthalene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	91-20-3
Nitrobenzene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	98-95-3
N-Nitrosodimethylamine	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	621-64-7
N-Nitrosodiphenylamine	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	86-30-6
Pentachlorophenol	ND	0.924	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	87-86-5
Phenanthrene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	85-01-8
Phenol	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	108-95-2

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB3 (1-3') (Continued)
Lab Sample ID: A6F0016-05 (Solid)

Sampled:
6/1/16 11:15

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Pyrene	ND	0.462	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:08	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*89%*	*19-122*			6/10/16 7:08		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*35%*	*30-115*			6/10/16 7:08		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*34%*	*25-121*			6/10/16 7:08		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*29%*	*23-120*			6/10/16 7:08		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*37%*	*15-110*			6/10/16 7:08		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*93%*	*18-137*			6/10/16 7:08		1718-51-0
Total Mercury Analysis by Method 7471A								
Mercury	**0.140**	0.124	mg/Kg dry	1	6/7/16 8:29	6/9/16 12:58		7439-97-6
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	630-20-6
1,1,1-Trichloroethane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	76-13-1
1,1,2-Trichloroethane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	79-00-5
1,1-Dichloroethane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	75-34-3
1,1-Dichloroethene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	75-35-4
1,1-Dichloropropene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	87-61-6
1,2,3-Trichloropropane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	106-93-4
1,2-Dichlorobenzene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	95-50-1
1,2-Dichloroethane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	107-06-2
1,2-Dichloropropane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	108-67-8
1,3-Dichlorobenzene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	541-73-1
1,3-Dichloropropane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	142-28-9
1,4-Dichlorobenzene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	106-46-7
2,2-Dichloropropane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0210	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U, L	110-75-8
2-Chlorotoluene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	95-49-8
2-Hexanone	ND	0.105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	591-78-6
3,3-Dimethyl-1-butanol	ND	0.105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	624-95-3

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB3 (1-3') (Continued)
Lab Sample ID: A6F0016-05 (Solid)

Sampled:
6/1/16 11:15

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
4-Chlorotoluene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	108-10-1
Acetone	**0.149**	0.105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	F	67-64-1
Acrolein	ND	0.0210	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	107-02-8
Acrylonitrile	ND	0.0210	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	107-13-1
Benzene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	71-43-2
Bromobenzene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	108-86-1
Bromochloromethane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	74-97-5
Bromodichloromethane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	75-27-4
Bromoform	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	74-83-9
Carbon disulfide	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	75-15-0
Carbon tetrachloride	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	56-23-5
Chlorobenzene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	108-90-7
Chloroethane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	75-00-3
Chloroform	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	74-87-3
cis-1,2-Dichloroethene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	156-59-4
cis-1,3-Dichloropropene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	10061-01-5
Cyclohexane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	110-82-7
Dibromochloromethane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	124-48-1
Dibromomethane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	74-95-3
Dichlorodifluoromethane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	60-29-7
Ethyl methacrylate	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	97-63-2
Ethylbenzene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	100-41-4
Hexachlorobutadiene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	87-68-3
Isopropylbenzene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	98-82-8
m,p-Xylenes	ND	0.0210	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	179601-23-1
2-Butanone (MEK)	**0.0588**	0.0210	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34		78-93-3
Methyl acetate	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0210	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	1634-04-4
Methylcyclohexane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	108-87-2
Methylene Chloride	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	75-09-2
Naphthalene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	91-20-3
n-Butylbenzene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	104-51-8
n-Propylbenzene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	103-65-1
o-Xylene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	99-87-6

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB3 (1-3') (Continued)
Lab Sample ID: A6F0016-05 (Solid)

Sampled:
6/1/16 11:15

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
sec-Butylbenzene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	135-98-8
Styrene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	100-42-5
tert-Butylbenzene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	98-06-6
Tetrachloroethylene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	127-18-4
Tetrahydrofuran	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	109-99-9
Toluene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	108-88-3
Total Xylenes	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	156-60-5
trans-1,3-Dichloropropene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	1006-10-26
Trichloroethylene	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	79-01-6
Trichlorofluoromethane	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	75-69-4
Vinyl acetate	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U	108-05-4
Vinyl chloride	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:34	U, H	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*96%*	*50-150*			6/6/16 21:34		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*113%*	*57-158*			6/6/16 21:34		460-00-4
Surrogate: Toluene-D8 (SUR)		*98%*	*50-150*			6/6/16 21:34		2037-26-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB3 (10')
Lab Sample ID: A6F0016-06 (Solid)

Sampled:
6/1/16 11:30

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Percent Moisture by Method 2540G								
% Solids	**85.0**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
Percent Moisture	**15.0**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	120-82-1
1,2-Dichlorobenzene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	95-50-1
1,3-Dichlorobenzene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	541-73-1
1,4-Dichlorobenzene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	106-46-7
1-Methylnaphthalene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	90-12-0
2,4,5-Trichlorophenol	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	95-95-4
2,4,6-Trichlorophenol	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	88-06-2
2,4-Dichlorophenol	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	120-83-2
2,4-Dimethylphenol	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	105-67-9
2,4-Dinitrophenol	ND	0.782	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	51-28-5
2,4-Dinitrotoluene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	121-14-2
2,6-Dinitrotoluene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	606-20-2
2-Chloronaphthalene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	91-58-7
2-Chlorophenol	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	95-57-8
2-Methylnaphthalene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	91-57-6
2-Methylphenol	ND	0.782	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	95-48-7
2-Nitroaniline	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	88-74-4
2-Nitrophenol	ND	0.782	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	88-75-5
3&4-Methylphenol	ND	0.978	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	91-94-1
3-Nitroaniline	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	534-52-1
4-Bromophenyl-phenylether	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	101-55-3
4-chloro-3-methylphenol	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	59-50-7
4-Nitroaniline	ND	0.782	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	100-01-6
4-Nitrophenol	ND	0.782	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	100-02-7
Acenaphthene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	83-32-9
Acenaphthylene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	62-53-3
Anthracene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	120-12-7
Benzo(a)anthracene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	56-55-3
Benzo(a)pyrene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	50-32-8
Benzo(b)fluoranthene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	205-99-2
Benzo(g,h,i)perylene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	191-24-2
Benzo(k)fluoranthene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	207-08-9

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB3 (10') (Continued)
Lab Sample ID: A6F0016-06 (Solid)

Sampled:
6/1/16 11:30

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Benzoic Acid	ND	0.782	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	65-85-0
Benzyl Alcohol	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	100-51-6
Butyl Benzyl Phthalate	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	111-91-1
bis(2-chloroethyl) ether	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	117-81-7
Chrysene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	53-70-3
Dibenzofuran	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	132-64-9
Diethyl Phthalate	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	84-66-2
Dimethyl Phthalate	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	131-11-3
di-n-Butyl Phthalate	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	84-74-2
di-n-Octyl Phthalate	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	117-84-0
Fluoranthene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	206-44-0
Fluorene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	86-73-7
Hexachlorobenzene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	118-74-1
Hexachlorobutadiene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	87-68-3
Hexachlorocyclopentadiene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	77-47-4
Hexachloroethane	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	193-39-5
Isophorone	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	78-59-1
Naphthalene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	91-20-3
Nitrobenzene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	98-95-3
N-Nitrosodimethylamine	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	621-64-7
N-Nitrosodiphenylamine	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	86-30-6
Pentachlorophenol	ND	0.782	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	87-86-5
Phenanthrene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	85-01-8
Phenol	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	108-95-2
Pyrene	ND	0.391	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:28	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*34%*	*19-122*			6/9/16 21:28		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*31%*	*30-115*			6/9/16 21:28		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*30%*	*25-121*			6/9/16 21:28		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*30%*	*23-120*			6/9/16 21:28		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*31%*	*15-110*			6/9/16 21:28		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*58%*	*18-137*			6/9/16 21:28		1718-51-0

VOCs by Method 8260B

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB3 (10') (Continued)
Lab Sample ID: A6F0016-06 (Solid)

Sampled:
6/1/16 11:30

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
1,1,1,2-Tetrachloroethane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	630-20-6
1,1,1-Trichloroethane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	76-13-1
1,1,2-Trichloroethane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	79-00-5
1,1-Dichloroethane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	75-34-3
1,1-Dichloroethene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	75-35-4
1,1-Dichloropropene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	87-61-6
1,2,3-Trichloropropane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	106-93-4
1,2-Dichlorobenzene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	95-50-1
1,2-Dichloroethane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	107-06-2
1,2-Dichloropropane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	108-67-8
1,3-Dichlorobenzene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	541-73-1
1,3-Dichloropropane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	142-28-9
1,4-Dichlorobenzene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	106-46-7
2,2-Dichloropropane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0110	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U, L	110-75-8
2-Chlorotoluene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	95-49-8
2-Hexanone	ND	0.0549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	591-78-6
3,3-Dimethyl-1-butanol	ND	0.0549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	624-95-3
4-Chlorotoluene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.0549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	108-10-1
Acetone	ND	0.0549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U, F	67-64-1
Acrolein	ND	0.0110	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	107-02-8
Acrylonitrile	ND	0.0110	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	107-13-1
Benzene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	71-43-2
Bromobenzene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	108-86-1
Bromochloromethane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	74-97-5
Bromodichloromethane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	75-27-4
Bromoform	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	74-83-9
Carbon disulfide	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	75-15-0
Carbon tetrachloride	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	56-23-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB3 (10') (Continued)
Lab Sample ID: A6F0016-06 (Solid)

Sampled:
6/1/16 11:30

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Chlorobenzene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	108-90-7
Chloroethane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	75-00-3
Chloroform	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	74-87-3
cis-1,2-Dichloroethene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	156-59-4
cis-1,3-Dichloropropene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	10061-01-5
Cyclohexane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	110-82-7
Dibromochloromethane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	124-48-1
Dibromomethane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	74-95-3
Dichlorodifluoromethane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	60-29-7
Ethyl methacrylate	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	97-63-2
Ethylbenzene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	100-41-4
Hexachlorobutadiene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	87-68-3
Isopropylbenzene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	98-82-8
m,p-Xylenes	ND	0.0110	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	179601-23-1
2-Butanone (MEK)	**0.0241**	0.0110	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58		78-93-3
Methyl acetate	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0110	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	1634-04-4
Methylcyclohexane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	108-87-2
Methylene Chloride	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	75-09-2
Naphthalene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	91-20-3
n-Butylbenzene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	104-51-8
n-Propylbenzene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	103-65-1
o-Xylene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	99-87-6
sec-Butylbenzene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	135-98-8
Styrene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	100-42-5
tert-Butylbenzene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	98-06-6
Tetrachloroethylene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	127-18-4
Tetrahydrofuran	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	109-99-9
Toluene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	108-88-3
Total Xylenes	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	156-60-5
trans-1,3-Dichloropropene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	1006-10-26
Trichloroethylene	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	79-01-6
Trichlorofluoromethane	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	75-69-4
Vinyl acetate	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U	108-05-4
Vinyl chloride	ND	0.00549	mg/Kg dry	1	6/6/16 15:59	6/6/16 21:58	U, H	75-01-4

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB3 (10') (Continued)
Lab Sample ID: A6F0016-06 (Solid)

Sampled:
6/1/16 11:30

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*104%*	*50-150*			6/6/16 21:58		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*107%*	*57-158*			6/6/16 21:58		460-00-4
Surrogate: Toluene-D8 (SUR)		*93%*	*50-150*			6/6/16 21:58		2037-26-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB4 (1-3')
Lab Sample ID: A6F0016-07 (Solid)

Sampled:
6/1/16 11:45

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
7 RCRA Metals by Method 6010C								
Arsenic	ND	6.66	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:20	U	7440-38-2
Barium	**30.1**	6.66	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:20		7440-39-3
Cadmium	**29.2**	6.66	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:20		7440-43-9
Chromium	**37.6**	6.66	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:20		7440-47-3
Lead	**13.9**	6.66	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:20		7439-92-1
Selenium	ND	6.66	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:20	U	7782-49-2
Silver	ND	6.66	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:20	U	7440-22-4
Percent Moisture by Method 2540G								
% Solids	**70.8**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
Percent Moisture	**29.2**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	120-82-1
1,2-Dichlorobenzene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	95-50-1
1,3-Dichlorobenzene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	541-73-1
1,4-Dichlorobenzene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	106-46-7
1-Methylnaphthalene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	90-12-0
2,4,5-Trichlorophenol	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	95-95-4
2,4,6-Trichlorophenol	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	88-06-2
2,4-Dichlorophenol	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	120-83-2
2,4-Dimethylphenol	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	105-67-9
2,4-Dinitrophenol	ND	0.938	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	51-28-5
2,4-Dinitrotoluene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	121-14-2
2,6-Dinitrotoluene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	606-20-2
2-Chloronaphthalene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	91-58-7
2-Chlorophenol	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	95-57-8
2-Methylnaphthalene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	91-57-6
2-Methylphenol	ND	0.938	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	95-48-7
2-Nitroaniline	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	88-74-4
2-Nitrophenol	ND	0.938	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	88-75-5
3&4-Methylphenol	ND	1.17	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	91-94-1
3-Nitroaniline	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	534-52-1
4-Bromophenyl-phenylether	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	101-55-3
4-chloro-3-methylphenol	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	59-50-7
4-Nitroaniline	ND	0.938	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	100-01-6
4-Nitrophenol	ND	0.938	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	100-02-7

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB4 (1-3') (Continued)
Lab Sample ID: A6F0016-07 (Solid)

Sampled:
6/1/16 11:45

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Acenaphthene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	83-32-9
Acenaphthylene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	62-53-3
Anthracene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	120-12-7
Benzo(a)anthracene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	56-55-3
Benzo(a)pyrene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	50-32-8
Benzo(b)fluoranthene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	205-99-2
Benzo(g,h,i)perylene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	191-24-2
Benzo(k)fluoranthene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	207-08-9
Benzoic Acid	ND	0.938	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	65-85-0
Benzyl Alcohol	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	100-51-6
Butyl Benzyl Phthalate	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	111-91-1
bis(2-chloroethyl) ether	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	117-81-7
Chrysene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	53-70-3
Dibenzofuran	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	132-64-9
Diethyl Phthalate	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	84-66-2
Dimethyl Phthalate	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	131-11-3
di-n-Butyl Phthalate	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	84-74-2
di-n-Octyl Phthalate	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	117-84-0
Fluoranthene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	206-44-0
Fluorene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	86-73-7
Hexachlorobenzene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	118-74-1
Hexachlorobutadiene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	87-68-3
Hexachlorocyclopentadiene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	77-47-4
Hexachloroethane	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	193-39-5
Isophorone	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	78-59-1
Naphthalene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	91-20-3
Nitrobenzene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	98-95-3
N-Nitrosodimethylamine	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	621-64-7
N-Nitrosodiphenylamine	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	86-30-6
Pentachlorophenol	ND	0.938	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	87-86-5
Phenanthrene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	85-01-8
Phenol	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	108-95-2

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB4 (1-3') (Continued)
Lab Sample ID: A6F0016-07 (Solid)

Sampled:
6/1/16 11:45

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Pyrene	ND	0.469	mg/Kg dry	1	6/8/16 15:00	6/10/16 7:36	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*63%*	*19-122*			6/10/16 7:36		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*39%*	*30-115*			6/10/16 7:36		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*37%*	*25-121*			6/10/16 7:36		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*37%*	*23-120*			6/10/16 7:36		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*40%*	*15-110*			6/10/16 7:36		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*70%*	*18-137*			6/10/16 7:36		1718-51-0
Total Mercury Analysis by Method 7471A								
Mercury	ND	0.138	mg/Kg dry	1	6/7/16 8:29	6/9/16 12:58	U	7439-97-6
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	630-20-6
1,1,1-Trichloroethane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	76-13-1
1,1,2-Trichloroethane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	79-00-5
1,1-Dichloroethane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	75-34-3
1,1-Dichloroethene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	75-35-4
1,1-Dichloropropene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	87-61-6
1,2,3-Trichloropropane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	106-93-4
1,2-Dichlorobenzene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	95-50-1
1,2-Dichloroethane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	107-06-2
1,2-Dichloropropane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	108-67-8
1,3-Dichlorobenzene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	541-73-1
1,3-Dichloropropane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	142-28-9
1,4-Dichlorobenzene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	106-46-7
2,2-Dichloropropane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0140	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U, L	110-75-8
2-Chlorotoluene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	95-49-8
2-Hexanone	ND	0.0699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	591-78-6
3,3-Dimethyl-1-butanol	ND	0.0699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	624-95-3

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB4 (1-3') (Continued)
Lab Sample ID: A6F0016-07 (Solid)

Sampled:
6/1/16 11:45

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
4-Chlorotoluene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.0699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	108-10-1
Acetone	**0.0980**	0.0699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	F	67-64-1
Acrolein	ND	0.0140	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	107-02-8
Acrylonitrile	ND	0.0140	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	107-13-1
Benzene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	71-43-2
Bromobenzene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	108-86-1
Bromochloromethane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	74-97-5
Bromodichloromethane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	75-27-4
Bromoform	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	74-83-9
Carbon disulfide	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	75-15-0
Carbon tetrachloride	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	56-23-5
Chlorobenzene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	108-90-7
Chloroethane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	75-00-3
Chloroform	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	74-87-3
cis-1,2-Dichloroethene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	156-59-4
cis-1,3-Dichloropropene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	10061-01-5
Cyclohexane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	110-82-7
Dibromochloromethane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	124-48-1
Dibromomethane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	74-95-3
Dichlorodifluoromethane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	60-29-7
Ethyl methacrylate	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	97-63-2
Ethylbenzene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	100-41-4
Hexachlorobutadiene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	87-68-3
Isopropylbenzene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	98-82-8
m,p-Xylenes	ND	0.0140	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	179601-23-1
2-Butanone (MEK)	**0.0241**	0.0140	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21		78-93-3
Methyl acetate	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0140	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	1634-04-4
Methylcyclohexane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	108-87-2
Methylene Chloride	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	75-09-2
Naphthalene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	91-20-3
n-Butylbenzene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	104-51-8
n-Propylbenzene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	103-65-1
o-Xylene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	99-87-6

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB4 (1-3') (Continued)
Lab Sample ID: A6F0016-07 (Solid)

Sampled:
6/1/16 11:45

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
sec-Butylbenzene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	135-98-8
Styrene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	100-42-5
tert-Butylbenzene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	98-06-6
Tetrachloroethylene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	127-18-4
Tetrahydrofuran	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	109-99-9
Toluene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	108-88-3
Total Xylenes	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	156-60-5
trans-1,3-Dichloropropene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	1006-10-26
Trichloroethylene	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	79-01-6
Trichlorofluoromethane	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	75-69-4
Vinyl acetate	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U	108-05-4
Vinyl chloride	ND	0.00699	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:21	U, H	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*102%*	*50-150*			6/6/16 22:21		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*104%*	*57-158*			6/6/16 22:21		460-00-4
Surrogate: Toluene-D8 (SUR)		*94%*	*50-150*			6/6/16 22:21		2037-26-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB4 (12')
Lab Sample ID: A6F0016-08 (Solid)

Sampled:
6/1/16 12:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Percent Moisture by Method 2540G								
% Solids	**60.8**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
Percent Moisture	**39.2**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	120-82-1
1,2-Dichlorobenzene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	95-50-1
1,3-Dichlorobenzene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	541-73-1
1,4-Dichlorobenzene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	106-46-7
1-Methylnaphthalene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	90-12-0
2,4,5-Trichlorophenol	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	95-95-4
2,4,6-Trichlorophenol	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	88-06-2
2,4-Dichlorophenol	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	120-83-2
2,4-Dimethylphenol	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	105-67-9
2,4-Dinitrophenol	ND	1.09	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	51-28-5
2,4-Dinitrotoluene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	121-14-2
2,6-Dinitrotoluene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	606-20-2
2-Chloronaphthalene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	91-58-7
2-Chlorophenol	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	95-57-8
2-Methylnaphthalene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	91-57-6
2-Methylphenol	ND	1.09	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	95-48-7
2-Nitroaniline	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	88-74-4
2-Nitrophenol	ND	1.09	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	88-75-5
3&4-Methylphenol	ND	1.37	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	91-94-1
3-Nitroaniline	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	534-52-1
4-Bromophenyl-phenylether	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	101-55-3
4-chloro-3-methylphenol	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	59-50-7
4-Nitroaniline	ND	1.09	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	100-01-6
4-Nitrophenol	ND	1.09	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	100-02-7
Acenaphthene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	83-32-9
Acenaphthylene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	62-53-3
Anthracene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	120-12-7
Benzo(a)anthracene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	56-55-3
Benzo(a)pyrene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	50-32-8
Benzo(b)fluoranthene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	205-99-2
Benzo(g,h,i)perylene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	191-24-2
Benzo(k)fluoranthene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	207-08-9

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB4 (12') (Continued)
Lab Sample ID: A6F0016-08 (Solid)

Sampled:
6/1/16 12:00

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Benzoic Acid	ND	1.09	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	65-85-0
Benzyl Alcohol	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	100-51-6
Butyl Benzyl Phthalate	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	111-91-1
bis(2-chloroethyl) ether	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	117-81-7
Chrysene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	53-70-3
Dibenzofuran	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	132-64-9
Diethyl Phthalate	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	84-66-2
Dimethyl Phthalate	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	131-11-3
di-n-Butyl Phthalate	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	84-74-2
di-n-Octyl Phthalate	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	117-84-0
Fluoranthene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	206-44-0
Fluorene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	86-73-7
Hexachlorobenzene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	118-74-1
Hexachlorobutadiene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	87-68-3
Hexachlorocyclopentadiene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	77-47-4
Hexachloroethane	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	193-39-5
Isophorone	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	78-59-1
Naphthalene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	91-20-3
Nitrobenzene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	98-95-3
N-Nitrosodimethylamine	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	621-64-7
N-Nitrosodiphenylamine	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	86-30-6
Pentachlorophenol	ND	1.09	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	87-86-5
Phenanthrene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	85-01-8
Phenol	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	108-95-2
Pyrene	ND	0.546	mg/Kg dry	1	6/8/16 15:00	6/9/16 21:57	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*60%*	*19-122*			6/9/16 21:57		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*54%*	*30-115*			6/9/16 21:57		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*55%*	*25-121*			6/9/16 21:57		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*53%*	*23-120*			6/9/16 21:57		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*62%*	*15-110*			6/9/16 21:57		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*91%*	*18-137*			6/9/16 21:57		1718-51-0

VOCs by Method 8260B

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB4 (12') (Continued)
Lab Sample ID: A6F0016-08 (Solid)

Sampled:
6/1/16 12:00

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
1,1,1,2-Tetrachloroethane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	630-20-6
1,1,1-Trichloroethane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	76-13-1
1,1,2-Trichloroethane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	79-00-5
1,1-Dichloroethane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	75-34-3
1,1-Dichloroethene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	75-35-4
1,1-Dichloropropene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	87-61-6
1,2,3-Trichloropropane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	106-93-4
1,2-Dichlorobenzene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	95-50-1
1,2-Dichloroethane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	107-06-2
1,2-Dichloropropane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	108-67-8
1,3-Dichlorobenzene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	541-73-1
1,3-Dichloropropane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	142-28-9
1,4-Dichlorobenzene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	106-46-7
2,2-Dichloropropane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0138	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U, L	110-75-8
2-Chlorotoluene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	95-49-8
2-Hexanone	ND	0.0688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	591-78-6
3,3-Dimethyl-1-butanol	ND	0.0688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	624-95-3
4-Chlorotoluene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.0688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	108-10-1
Acetone	**0.212**	0.0688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	F	67-64-1
Acrolein	ND	0.0138	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	107-02-8
Acrylonitrile	ND	0.0138	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	107-13-1
Benzene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	71-43-2
Bromobenzene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	108-86-1
Bromochloromethane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	74-97-5
Bromodichloromethane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	75-27-4
Bromoform	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	74-83-9
Carbon disulfide	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	75-15-0
Carbon tetrachloride	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	56-23-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB4 (12') (Continued)
Lab Sample ID: A6F0016-08 (Solid)

Sampled:
6/1/16 12:00

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Chlorobenzene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	108-90-7
Chloroethane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	75-00-3
Chloroform	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	74-87-3
cis-1,2-Dichloroethene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	156-59-4
cis-1,3-Dichloropropene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	10061-01-5
Cyclohexane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	110-82-7
Dibromochloromethane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	124-48-1
Dibromomethane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	74-95-3
Dichlorodifluoromethane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	60-29-7
Ethyl methacrylate	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	97-63-2
Ethylbenzene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	100-41-4
Hexachlorobutadiene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	87-68-3
Isopropylbenzene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	98-82-8
m,p-Xylenes	ND	0.0138	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	179601-23-1
2-Butanone (MEK)	**0.0521**	0.0138	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45		78-93-3
Methyl acetate	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0138	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	1634-04-4
Methylcyclohexane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	108-87-2
Methylene Chloride	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	75-09-2
Naphthalene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	91-20-3
n-Butylbenzene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	104-51-8
n-Propylbenzene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	103-65-1
o-Xylene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	99-87-6
sec-Butylbenzene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	135-98-8
Styrene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	100-42-5
tert-Butylbenzene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	98-06-6
Tetrachloroethylene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	127-18-4
Tetrahydrofuran	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	109-99-9
Toluene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	108-88-3
Total Xylenes	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	156-60-5
trans-1,3-Dichloropropene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	1006-10-26
Trichloroethylene	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	79-01-6
Trichlorofluoromethane	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	75-69-4
Vinyl acetate	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U	108-05-4
Vinyl chloride	ND	0.00688	mg/Kg dry	1	6/6/16 15:59	6/6/16 22:45	U, H	75-01-4

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB4 (12') (Continued)
Lab Sample ID: A6F0016-08 (Solid)

Sampled:
6/1/16 12:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*104%*	*50-150*			6/6/16 22:45		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*108%*	*57-158*			6/6/16 22:45		460-00-4
Surrogate: Toluene-D8 (SUR)		*95%*	*50-150*			6/6/16 22:45		2037-26-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB5 (1-3')
Lab Sample ID: A6F0016-09 (Solid)

Sampled:
6/1/16 13:30

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
7 RCRA Metals by Method 6010C								
Arsenic	**16.5**	5.94	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:22		7440-38-2
Barium	**97.5**	5.94	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:22		7440-39-3
Cadmium	ND	5.94	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:22	U	7440-43-9
Chromium	**32.7**	5.94	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:22		7440-47-3
Lead	**80.2**	5.94	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:22		7439-92-1
Selenium	ND	5.94	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:22	U	7782-49-2
Silver	ND	5.94	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:22	U	7440-22-4
Percent Moisture by Method 2540G								
% Solids	**82.5**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
Percent Moisture	**17.5**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	120-82-1
1,2-Dichlorobenzene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	95-50-1
1,3-Dichlorobenzene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	541-73-1
1,4-Dichlorobenzene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	106-46-7
1-Methylnaphthalene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	90-12-0
2,4,5-Trichlorophenol	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	95-95-4
2,4,6-Trichlorophenol	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	88-06-2
2,4-Dichlorophenol	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	120-83-2
2,4-Dimethylphenol	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	105-67-9
2,4-Dinitrophenol	ND	0.805	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	51-28-5
2,4-Dinitrotoluene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	121-14-2
2,6-Dinitrotoluene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	606-20-2
2-Chloronaphthalene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	91-58-7
2-Chlorophenol	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	95-57-8
2-Methylnaphthalene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	91-57-6
2-Methylphenol	ND	0.805	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	95-48-7
2-Nitroaniline	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	88-74-4
2-Nitrophenol	ND	0.805	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	88-75-5
3&4-Methylphenol	ND	1.01	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	91-94-1
3-Nitroaniline	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	534-52-1
4-Bromophenyl-phenylether	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	101-55-3
4-chloro-3-methylphenol	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	59-50-7
4-Nitroaniline	ND	0.805	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	100-01-6
4-Nitrophenol	ND	0.805	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	100-02-7

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB5 (1-3') (Continued)
Lab Sample ID: A6F0016-09 (Solid)

Sampled:
6/1/16 13:30

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Acenaphthene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	83-32-9
Acenaphthylene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	62-53-3
Anthracene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	120-12-7
Benzo(a)anthracene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	56-55-3
Benzo(a)pyrene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	50-32-8
Benzo(b)fluoranthene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	205-99-2
Benzo(g,h,i)perylene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	191-24-2
Benzo(k)fluoranthene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	207-08-9
Benzoic Acid	ND	0.805	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	65-85-0
Benzyl Alcohol	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	100-51-6
Butyl Benzyl Phthalate	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	111-91-1
bis(2-chloroethyl) ether	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	117-81-7
Chrysene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	53-70-3
Dibenzofuran	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	132-64-9
Diethyl Phthalate	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	84-66-2
Dimethyl Phthalate	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	131-11-3
di-n-Butyl Phthalate	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	84-74-2
di-n-Octyl Phthalate	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	117-84-0
Fluoranthene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	206-44-0
Fluorene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	86-73-7
Hexachlorobenzene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	118-74-1
Hexachlorobutadiene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	87-68-3
Hexachlorocyclopentadiene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	77-47-4
Hexachloroethane	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	193-39-5
Isophorone	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	78-59-1
Naphthalene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	91-20-3
Nitrobenzene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	98-95-3
N-Nitrosodimethylamine	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	621-64-7
N-Nitrosodiphenylamine	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	86-30-6
Pentachlorophenol	ND	0.805	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	87-86-5
Phenanthrene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	85-01-8
Phenol	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	108-95-2

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB5 (1-3') (Continued)
Lab Sample ID: A6F0016-09 (Solid)

Sampled:
6/1/16 13:30

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Pyrene	ND	0.403	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:05	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*77%*	*19-122*			6/10/16 8:05		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*48%*	*30-115*			6/10/16 8:05		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*42%*	*25-121*			6/10/16 8:05		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*35%*	*23-120*			6/10/16 8:05		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*53%*	*15-110*			6/10/16 8:05		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*75%*	*18-137*			6/10/16 8:05		1718-51-0
Total Mercury Analysis by Method 7471A								
Mercury	ND	0.121	mg/Kg dry	1	6/7/16 8:29	6/9/16 12:58	U	7439-97-6
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	630-20-6
1,1,1-Trichloroethane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	76-13-1
1,1,2-Trichloroethane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	79-00-5
1,1-Dichloroethane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	75-34-3
1,1-Dichloroethene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	75-35-4
1,1-Dichloropropene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	87-61-6
1,2,3-Trichloropropane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	106-93-4
1,2-Dichlorobenzene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	95-50-1
1,2-Dichloroethane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	107-06-2
1,2-Dichloropropane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	108-67-8
1,3-Dichlorobenzene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	541-73-1
1,3-Dichloropropane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	142-28-9
1,4-Dichlorobenzene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	106-46-7
2,2-Dichloropropane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0132	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U, L	110-75-8
2-Chlorotoluene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	95-49-8
2-Hexanone	ND	0.0660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	591-78-6
3,3-Dimethyl-1-butanol	ND	0.0660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	624-95-3

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB5 (1-3') (Continued)
Lab Sample ID: A6F0016-09 (Solid)

Sampled:
6/1/16 13:30

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
4-Chlorotoluene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.0660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	108-10-1
Acetone	**0.145**	0.0660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	F	67-64-1
Acrolein	ND	0.0132	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	107-02-8
Acrylonitrile	ND	0.0132	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	107-13-1
Benzene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	71-43-2
Bromobenzene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	108-86-1
Bromochloromethane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	74-97-5
Bromodichloromethane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	75-27-4
Bromoform	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	74-83-9
Carbon disulfide	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	75-15-0
Carbon tetrachloride	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	56-23-5
Chlorobenzene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	108-90-7
Chloroethane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	75-00-3
Chloroform	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	74-87-3
cis-1,2-Dichloroethene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	156-59-4
cis-1,3-Dichloropropene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	10061-01-5
Cyclohexane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	110-82-7
Dibromochloromethane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	124-48-1
Dibromomethane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	74-95-3
Dichlorodifluoromethane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	60-29-7
Ethyl methacrylate	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	97-63-2
Ethylbenzene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	100-41-4
Hexachlorobutadiene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	87-68-3
Isopropylbenzene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	98-82-8
m,p-Xylenes	ND	0.0132	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	179601-23-1
2-Butanone (MEK)	**0.0321**	0.0132	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09		78-93-3
Methyl acetate	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0132	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	1634-04-4
Methylcyclohexane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	108-87-2
Methylene Chloride	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	75-09-2
Naphthalene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	91-20-3
n-Butylbenzene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	104-51-8
n-Propylbenzene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	103-65-1
o-Xylene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	99-87-6

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB5 (1-3') (Continued)
Lab Sample ID: A6F0016-09 (Solid)

Sampled:
6/1/16 13:30

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
sec-Butylbenzene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	135-98-8
Styrene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	100-42-5
tert-Butylbenzene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	98-06-6
Tetrachloroethylene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	127-18-4
Tetrahydrofuran	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	109-99-9
Toluene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	108-88-3
Total Xylenes	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	156-60-5
trans-1,3-Dichloropropene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	1006-10-26
Trichloroethylene	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	79-01-6
Trichlorofluoromethane	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	75-69-4
Vinyl acetate	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U	108-05-4
Vinyl chloride	ND	0.00660	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:09	U, H	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*109%*	*50-150*			6/6/16 23:09		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*132%*	*57-158*			6/6/16 23:09		460-00-4
Surrogate: Toluene-D8 (SUR)		*107%*	*50-150*			6/6/16 23:09		2037-26-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB5 (12')
Lab Sample ID: A6F0016-10 (Solid)

Sampled:
6/1/16 13:45

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Percent Moisture by Method 2540G								
% Solids	**58.1**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
Percent Moisture	**41.9**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	120-82-1
1,2-Dichlorobenzene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	95-50-1
1,3-Dichlorobenzene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	541-73-1
1,4-Dichlorobenzene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	106-46-7
1-Methylnaphthalene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	90-12-0
2,4,5-Trichlorophenol	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	95-95-4
2,4,6-Trichlorophenol	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	88-06-2
2,4-Dichlorophenol	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	120-83-2
2,4-Dimethylphenol	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	105-67-9
2,4-Dinitrophenol	ND	1.14	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	51-28-5
2,4-Dinitrotoluene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	121-14-2
2,6-Dinitrotoluene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	606-20-2
2-Chloronaphthalene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	91-58-7
2-Chlorophenol	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	95-57-8
2-Methylnaphthalene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	91-57-6
2-Methylphenol	ND	1.14	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	95-48-7
2-Nitroaniline	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	88-74-4
2-Nitrophenol	ND	1.14	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	88-75-5
3&4-Methylphenol	ND	1.43	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	91-94-1
3-Nitroaniline	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	534-52-1
4-Bromophenyl-phenylether	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	101-55-3
4-chloro-3-methylphenol	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	59-50-7
4-Nitroaniline	ND	1.14	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	100-01-6
4-Nitrophenol	ND	1.14	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	100-02-7
Acenaphthene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	83-32-9
Acenaphthylene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	62-53-3
Anthracene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	120-12-7
Benzo(a)anthracene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	56-55-3
Benzo(a)pyrene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	50-32-8
Benzo(b)fluoranthene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	205-99-2
Benzo(g,h,i)perylene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	191-24-2
Benzo(k)fluoranthene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	207-08-9

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB5 (12') (Continued)
Lab Sample ID: A6F0016-10 (Solid)

Sampled:
6/1/16 13:45

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Benzoic Acid	ND	1.14	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	65-85-0
Benzyl Alcohol	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	100-51-6
Butyl Benzyl Phthalate	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	111-91-1
bis(2-chloroethyl) ether	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	117-81-7
Chrysene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	53-70-3
Dibenzofuran	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	132-64-9
Diethyl Phthalate	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	84-66-2
Dimethyl Phthalate	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	131-11-3
di-n-Butyl Phthalate	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	84-74-2
di-n-Octyl Phthalate	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	117-84-0
Fluoranthene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	206-44-0
Fluorene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	86-73-7
Hexachlorobenzene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	118-74-1
Hexachlorobutadiene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	87-68-3
Hexachlorocyclopentadiene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	77-47-4
Hexachloroethane	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	193-39-5
Isophorone	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	78-59-1
Naphthalene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	91-20-3
Nitrobenzene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	98-95-3
N-Nitrosodimethylamine	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	621-64-7
N-Nitrosodiphenylamine	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	86-30-6
Pentachlorophenol	ND	1.14	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	87-86-5
Phenanthrene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	85-01-8
Phenol	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	108-95-2
Pyrene	ND	0.571	mg/Kg dry	1	6/8/16 15:00	6/9/16 22:25	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*54%*	*19-122*			6/9/16 22:25		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*41%*	*30-115*			6/9/16 22:25		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*44%*	*25-121*			6/9/16 22:25		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*37%*	*23-120*			6/9/16 22:25		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*47%*	*15-110*			6/9/16 22:25		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*92%*	*18-137*			6/9/16 22:25		1718-51-0

VOCs by Method 8260B

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB5 (12') (Continued)
Lab Sample ID: A6F0016-10 (Solid)

Sampled:
6/1/16 13:45

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
1,1,1,2-Tetrachloroethane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	630-20-6
1,1,1-Trichloroethane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	76-13-1
1,1,2-Trichloroethane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	79-00-5
1,1-Dichloroethane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	75-34-3
1,1-Dichloroethene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	75-35-4
1,1-Dichloropropene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	87-61-6
1,2,3-Trichloropropane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	106-93-4
1,2-Dichlorobenzene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	95-50-1
1,2-Dichloroethane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	107-06-2
1,2-Dichloropropane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	108-67-8
1,3-Dichlorobenzene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	541-73-1
1,3-Dichloropropane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	142-28-9
1,4-Dichlorobenzene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	106-46-7
2,2-Dichloropropane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0192	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U, L	110-75-8
2-Chlorotoluene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	95-49-8
2-Hexanone	ND	0.0960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	591-78-6
3,3-Dimethyl-1-butanol	ND	0.0960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	624-95-3
4-Chlorotoluene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.0960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	108-10-1
Acetone	ND	0.0960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U, F	67-64-1
Acrolein	ND	0.0192	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	107-02-8
Acrylonitrile	ND	0.0192	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	107-13-1
Benzene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	71-43-2
Bromobenzene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	108-86-1
Bromochloromethane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	74-97-5
Bromodichloromethane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	75-27-4
Bromoform	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	74-83-9
Carbon disulfide	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	75-15-0
Carbon tetrachloride	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	56-23-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB5 (12') (Continued)
Lab Sample ID: A6F0016-10 (Solid)

Sampled:
6/1/16 13:45

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Chlorobenzene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	108-90-7
Chloroethane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	75-00-3
Chloroform	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	74-87-3
cis-1,2-Dichloroethene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	156-59-4
cis-1,3-Dichloropropene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	10061-01-5
Cyclohexane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	110-82-7
Dibromochloromethane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	124-48-1
Dibromomethane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	74-95-3
Dichlorodifluoromethane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	60-29-7
Ethyl methacrylate	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	97-63-2
Ethylbenzene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	100-41-4
Hexachlorobutadiene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	87-68-3
Isopropylbenzene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	98-82-8
m,p-Xylenes	ND	0.0192	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	179601-23-1
2-Butanone (MEK)	**0.0514**	0.0192	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33		78-93-3
Methyl acetate	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0192	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	1634-04-4
Methylcyclohexane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	108-87-2
Methylene Chloride	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	75-09-2
Naphthalene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	91-20-3
n-Butylbenzene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	104-51-8
n-Propylbenzene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	103-65-1
o-Xylene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	99-87-6
sec-Butylbenzene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	135-98-8
Styrene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	100-42-5
tert-Butylbenzene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	98-06-6
Tetrachloroethylene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	127-18-4
Tetrahydrofuran	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	109-99-9
Toluene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	108-88-3
Total Xylenes	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	156-60-5
trans-1,3-Dichloropropene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	1006-10-26
Trichloroethylene	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	79-01-6
Trichlorofluoromethane	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	75-69-4
Vinyl acetate	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U	108-05-4
Vinyl chloride	ND	0.00960	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:33	U, H	75-01-4

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB5 (12') (Continued)
Lab Sample ID: A6F0016-10 (Solid)

Sampled:
6/1/16 13:45

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*105%*	*50-150*			6/6/16 23:33		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*105%*	*57-158*			6/6/16 23:33		460-00-4
Surrogate: Toluene-D8 (SUR)		*95%*	*50-150*			6/6/16 23:33		2037-26-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB6 (1-3')
Lab Sample ID: A6F0016-11 (Solid)

Sampled:
6/1/16 14:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
7 RCRA Metals by Method 6010C								
Arsenic	ND	5.76	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:24	U	7440-38-2
Barium	**58.2**	5.76	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:24		7440-39-3
Cadmium	**25.0**	5.76	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:24		7440-43-9
Chromium	**55.0**	5.76	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:24		7440-47-3
Lead	**25.6**	5.76	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:24		7439-92-1
Selenium	ND	5.76	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:24	U	7782-49-2
Silver	ND	5.76	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:24	U	7440-22-4
Percent Moisture by Method 2540G								
% Solids	**86.9**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
Percent Moisture	**13.1**	0.100	%	1	6/7/16 8:45	6/8/16 12:37		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	120-82-1
1,2-Dichlorobenzene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	95-50-1
1,3-Dichlorobenzene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	541-73-1
1,4-Dichlorobenzene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	106-46-7
1-Methylnaphthalene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	90-12-0
2,4,5-Trichlorophenol	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	95-95-4
2,4,6-Trichlorophenol	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	88-06-2
2,4-Dichlorophenol	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	120-83-2
2,4-Dimethylphenol	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	105-67-9
2,4-Dinitrophenol	ND	0.762	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	51-28-5
2,4-Dinitrotoluene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	121-14-2
2,6-Dinitrotoluene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	606-20-2
2-Chloronaphthalene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	91-58-7
2-Chlorophenol	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	95-57-8
2-Methylnaphthalene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	91-57-6
2-Methylphenol	ND	0.762	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	95-48-7
2-Nitroaniline	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	88-74-4
2-Nitrophenol	ND	0.762	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	88-75-5
3&4-Methylphenol	ND	0.953	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	91-94-1
3-Nitroaniline	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	534-52-1
4-Bromophenyl-phenylether	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	101-55-3
4-chloro-3-methylphenol	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	59-50-7
4-Nitroaniline	ND	0.762	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	100-01-6
4-Nitrophenol	ND	0.762	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	100-02-7

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB6 (1-3') (Continued)
Lab Sample ID: A6F0016-11 (Solid)

Sampled:
6/1/16 14:00

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Acenaphthene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	83-32-9
Acenaphthylene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	62-53-3
Anthracene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	120-12-7
Benzo(a)anthracene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	56-55-3
Benzo(a)pyrene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	50-32-8
Benzo(b)fluoranthene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	205-99-2
Benzo(g,h,i)perylene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	191-24-2
Benzo(k)fluoranthene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	207-08-9
Benzoic Acid	ND	0.762	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	65-85-0
Benzyl Alcohol	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	100-51-6
Butyl Benzyl Phthalate	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	111-91-1
bis(2-chloroethyl) ether	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	117-81-7
Chrysene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	53-70-3
Dibenzofuran	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	132-64-9
Diethyl Phthalate	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	84-66-2
Dimethyl Phthalate	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	131-11-3
di-n-Butyl Phthalate	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	84-74-2
di-n-Octyl Phthalate	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	117-84-0
Fluoranthene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	206-44-0
Fluorene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	86-73-7
Hexachlorobenzene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	118-74-1
Hexachlorobutadiene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	87-68-3
Hexachlorocyclopentadiene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	77-47-4
Hexachloroethane	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	193-39-5
Isophorone	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	78-59-1
Naphthalene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	91-20-3
Nitrobenzene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	98-95-3
N-Nitrosodimethylamine	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	621-64-7
N-Nitrosodiphenylamine	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	86-30-6
Pentachlorophenol	ND	0.762	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	87-86-5
Phenanthrene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	85-01-8
Phenol	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	108-95-2

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB6 (1-3') (Continued)
Lab Sample ID: A6F0016-11 (Solid)

Sampled:
6/1/16 14:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Pyrene	ND	0.381	mg/Kg dry	1	6/8/16 15:00	6/10/16 8:53	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*73%*	*19-122*			6/10/16 8:53		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*58%*	*30-115*			6/10/16 8:53		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*56%*	*25-121*			6/10/16 8:53		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*50%*	*23-120*			6/10/16 8:53		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*67%*	*15-110*			6/10/16 8:53		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*70%*	*18-137*			6/10/16 8:53		1718-51-0
Total Mercury Analysis by Method 7471A								
Mercury	ND	0.105	mg/Kg dry	1	6/7/16 8:29	6/9/16 12:58	U	7439-97-6
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	630-20-6
1,1,1-Trichloroethane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	76-13-1
1,1,2-Trichloroethane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	79-00-5
1,1-Dichloroethane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	75-34-3
1,1-Dichloroethene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	75-35-4
1,1-Dichloropropene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	87-61-6
1,2,3-Trichloropropane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	106-93-4
1,2-Dichlorobenzene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	95-50-1
1,2-Dichloroethane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	107-06-2
1,2-Dichloropropane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	108-67-8
1,3-Dichlorobenzene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	541-73-1
1,3-Dichloropropane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	142-28-9
1,4-Dichlorobenzene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	106-46-7
2,2-Dichloropropane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U, L	110-75-8
2-Chlorotoluene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	95-49-8
2-Hexanone	ND	0.0526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	591-78-6
3,3-Dimethyl-1-butanol	ND	0.0526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	624-95-3

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB6 (1-3') (Continued)
Lab Sample ID: A6F0016-11 (Solid)

Sampled:
6/1/16 14:00

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
4-Chlorotoluene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.0526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	108-10-1
Acetone	**0.0555**	0.0526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	F	67-64-1
Acrolein	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	107-02-8
Acrylonitrile	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	107-13-1
Benzene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	71-43-2
Bromobenzene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	108-86-1
Bromochloromethane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	74-97-5
Bromodichloromethane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	75-27-4
Bromoform	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	74-83-9
Carbon disulfide	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	75-15-0
Carbon tetrachloride	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	56-23-5
Chlorobenzene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	108-90-7
Chloroethane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	75-00-3
Chloroform	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	74-87-3
cis-1,2-Dichloroethene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	156-59-4
cis-1,3-Dichloropropene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	10061-01-5
Cyclohexane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	110-82-7
Dibromochloromethane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	124-48-1
Dibromomethane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	74-95-3
Dichlorodifluoromethane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	60-29-7
Ethyl methacrylate	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	97-63-2
Ethylbenzene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	100-41-4
Hexachlorobutadiene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	87-68-3
Isopropylbenzene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	98-82-8
m,p-Xylenes	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	179601-23-1
2-Butanone (MEK)	**0.0279**	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56		78-93-3
Methyl acetate	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0105	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	1634-04-4
Methylcyclohexane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	108-87-2
Methylene Chloride	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	75-09-2
Naphthalene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	91-20-3
n-Butylbenzene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	104-51-8
n-Propylbenzene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	103-65-1
o-Xylene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	99-87-6

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB6 (1-3') (Continued)
Lab Sample ID: A6F0016-11 (Solid)

Sampled:
6/1/16 14:00

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
sec-Butylbenzene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	135-98-8
Styrene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	100-42-5
tert-Butylbenzene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	98-06-6
Tetrachloroethylene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	127-18-4
Tetrahydrofuran	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	109-99-9
Toluene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	108-88-3
Total Xylenes	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	156-60-5
trans-1,3-Dichloropropene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	1006-10-26
Trichloroethylene	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	79-01-6
Trichlorofluoromethane	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	75-69-4
Vinyl acetate	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U	108-05-4
Vinyl chloride	ND	0.00526	mg/Kg dry	1	6/6/16 15:59	6/6/16 23:56	U, H	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*106%*	*50-150*			6/6/16 23:56		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*118%*	*57-158*			6/6/16 23:56		460-00-4
Surrogate: Toluene-D8 (SUR)		*100%*	*50-150*			6/6/16 23:56		2037-26-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB6 (12')
Lab Sample ID: A6F0016-12 (Solid)

Sampled:
6/1/16 14:15

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Percent Moisture by Method 2540G								
% Solids	**75.2**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
Percent Moisture	**24.8**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	120-82-1
1,2-Dichlorobenzene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	95-50-1
1,3-Dichlorobenzene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	541-73-1
1,4-Dichlorobenzene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	106-46-7
1-Methylnaphthalene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	90-12-0
2,4,5-Trichlorophenol	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	95-95-4
2,4,6-Trichlorophenol	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	88-06-2
2,4-Dichlorophenol	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	120-83-2
2,4-Dimethylphenol	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	105-67-9
2,4-Dinitrophenol	ND	0.882	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	51-28-5
2,4-Dinitrotoluene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	121-14-2
2,6-Dinitrotoluene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	606-20-2
2-Chloronaphthalene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	91-58-7
2-Chlorophenol	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	95-57-8
2-Methylnaphthalene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	91-57-6
2-Methylphenol	ND	0.882	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	95-48-7
2-Nitroaniline	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	88-74-4
2-Nitrophenol	ND	0.882	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	88-75-5
3&4-Methylphenol	ND	1.10	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	91-94-1
3-Nitroaniline	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	534-52-1
4-Bromophenyl-phenylether	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	101-55-3
4-chloro-3-methylphenol	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	59-50-7
4-Nitroaniline	ND	0.882	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	100-01-6
4-Nitrophenol	ND	0.882	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	100-02-7
Acenaphthene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	83-32-9
Acenaphthylene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	62-53-3
Anthracene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	120-12-7
Benzo(a)anthracene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	56-55-3
Benzo(a)pyrene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	50-32-8
Benzo(b)fluoranthene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	205-99-2
Benzo(g,h,i)perylene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	191-24-2
Benzo(k)fluoranthene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	207-08-9

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB6 (12') (Continued)
Lab Sample ID: A6F0016-12 (Solid)

Sampled:
6/1/16 14:15

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Benzoic Acid	ND	0.882	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	65-85-0
Benzyl Alcohol	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	100-51-6
Butyl Benzyl Phthalate	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	111-91-1
bis(2-chloroethyl) ether	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	117-81-7
Chrysene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	53-70-3
Dibenzofuran	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	132-64-9
Diethyl Phthalate	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	84-66-2
Dimethyl Phthalate	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	131-11-3
di-n-Butyl Phthalate	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	84-74-2
di-n-Octyl Phthalate	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	117-84-0
Fluoranthene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	206-44-0
Fluorene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	86-73-7
Hexachlorobenzene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	118-74-1
Hexachlorobutadiene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	87-68-3
Hexachlorocyclopentadiene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	77-47-4
Hexachloroethane	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	193-39-5
Isophorone	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	78-59-1
Naphthalene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	91-20-3
Nitrobenzene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	98-95-3
N-Nitrosodimethylamine	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	621-64-7
N-Nitrosodiphenylamine	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	86-30-6
Pentachlorophenol	ND	0.882	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	87-86-5
Phenanthrene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	85-01-8
Phenol	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	108-95-2
Pyrene	ND	0.441	mg/Kg dry	1	6/9/16 16:45	6/13/16 13:41	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*74%*	*19-122*			6/13/16 13:41		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*69%*	*30-115*			6/13/16 13:41		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*62%*	*25-121*			6/13/16 13:41		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*62%*	*23-120*			6/13/16 13:41		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*69%*	*15-110*			6/13/16 13:41		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*77%*	*18-137*			6/13/16 13:41		1718-51-0

VOCs by Method 8260B

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No duplication of this report is allowed, except in its entirety.

Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB6 (12') (Continued)
Lab Sample ID: A6F0016-12 (Solid)

Sampled:
6/1/16 14:15

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
1,1,1,2-Tetrachloroethane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	630-20-6
1,1,1-Trichloroethane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	76-13-1
1,1,2-Trichloroethane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	79-00-5
1,1-Dichloroethane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	75-34-3
1,1-Dichloroethene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	75-35-4
1,1-Dichloropropene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	87-61-6
1,2,3-Trichloropropane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	106-93-4
1,2-Dichlorobenzene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	95-50-1
1,2-Dichloroethane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	107-06-2
1,2-Dichloropropane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	108-67-8
1,3-Dichlorobenzene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	541-73-1
1,3-Dichloropropane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	142-28-9
1,4-Dichlorobenzene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	106-46-7
2,2-Dichloropropane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0165	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U, L	110-75-8
2-Chlorotoluene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	95-49-8
2-Hexanone	ND	0.0827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	591-78-6
3,3-Dimethyl-1-butanol	ND	0.0827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	624-95-3
4-Chlorotoluene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.0827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	108-10-1
Acetone	ND	0.0827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U, F	67-64-1
Acrolein	ND	0.0165	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	107-02-8
Acrylonitrile	ND	0.0165	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	107-13-1
Benzene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	71-43-2
Bromobenzene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	108-86-1
Bromochloromethane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	74-97-5
Bromodichloromethane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	75-27-4
Bromoform	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	74-83-9
Carbon disulfide	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	75-15-0
Carbon tetrachloride	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	56-23-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB6 (12') (Continued)
Lab Sample ID: A6F0016-12 (Solid)

Sampled:
6/1/16 14:15

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Chlorobenzene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	108-90-7
Chloroethane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	75-00-3
Chloroform	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	74-87-3
cis-1,2-Dichloroethene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	156-59-4
cis-1,3-Dichloropropene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	10061-01-5
Cyclohexane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	110-82-7
Dibromochloromethane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	124-48-1
Dibromomethane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	74-95-3
Dichlorodifluoromethane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	60-29-7
Ethyl methacrylate	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	97-63-2
Ethylbenzene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	100-41-4
Hexachlorobutadiene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	87-68-3
Isopropylbenzene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	98-82-8
m,p-Xylenes	ND	0.0165	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	179601-23-1
2-Butanone (MEK)	**0.0297**	0.0165	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21		78-93-3
Methyl acetate	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0165	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	1634-04-4
Methylcyclohexane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	108-87-2
Methylene Chloride	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	75-09-2
Naphthalene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	91-20-3
n-Butylbenzene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	104-51-8
n-Propylbenzene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	103-65-1
o-Xylene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	99-87-6
sec-Butylbenzene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	135-98-8
Styrene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	100-42-5
tert-Butylbenzene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	98-06-6
Tetrachloroethylene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	127-18-4
Tetrahydrofuran	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	109-99-9
Toluene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	108-88-3
Total Xylenes	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	156-60-5
trans-1,3-Dichloropropene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	1006-10-26
Trichloroethylene	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	79-01-6
Trichlorofluoromethane	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	75-69-4
Vinyl acetate	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U	108-05-4
Vinyl chloride	ND	0.00827	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:21	U, H	75-01-4

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No duplication of this report is allowed, except in its entirety.

Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB6 (12') (Continued)
Lab Sample ID: A6F0016-12 (Solid)

Sampled:
6/1/16 14:15

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*103%*	*50-150*			6/7/16 0:21		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*104%*	*57-158*			6/7/16 0:21		460-00-4
Surrogate: Toluene-D8 (SUR)		*97%*	*50-150*			6/7/16 0:21		2037-26-5

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB7 (1-3')
Lab Sample ID: A6F0016-13 (Solid)

Sampled:
6/1/16 14:30

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
7 RCRA Metals by Method 6010C								
Arsenic	ND	5.87	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:26	U	7440-38-2
Barium	**133**	5.87	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:26		7440-39-3
Cadmium	ND	5.87	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:26	U	7440-43-9
Chromium	**72.5**	5.87	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:26		7440-47-3
Lead	**31.5**	5.87	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:26		7439-92-1
Selenium	ND	5.87	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:26	U	7782-49-2
Silver	ND	5.87	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:26	U	7440-22-4
Percent Moisture by Method 2540G								
% Solids	**82.7**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
Percent Moisture	**17.3**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	120-82-1
1,2-Dichlorobenzene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	95-50-1
1,3-Dichlorobenzene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	541-73-1
1,4-Dichlorobenzene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	106-46-7
1-Methylnaphthalene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	90-12-0
2,4,5-Trichlorophenol	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	95-95-4
2,4,6-Trichlorophenol	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	88-06-2
2,4-Dichlorophenol	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	120-83-2
2,4-Dimethylphenol	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	105-67-9
2,4-Dinitrophenol	ND	0.803	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	51-28-5
2,4-Dinitrotoluene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	121-14-2
2,6-Dinitrotoluene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	606-20-2
2-Chloronaphthalene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	91-58-7
2-Chlorophenol	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	95-57-8
2-Methylnaphthalene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	91-57-6
2-Methylphenol	ND	0.803	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	95-48-7
2-Nitroaniline	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	88-74-4
2-Nitrophenol	ND	0.803	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	88-75-5
3&4-Methylphenol	ND	1.00	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	91-94-1
3-Nitroaniline	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	534-52-1
4-Bromophenyl-phenylether	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	101-55-3
4-chloro-3-methylphenol	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	59-50-7
4-Nitroaniline	ND	0.803	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	100-01-6
4-Nitrophenol	ND	0.803	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	100-02-7

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB7 (1-3') (Continued)
Lab Sample ID: A6F0016-13 (Solid)

Sampled:
6/1/16 14:30

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Acenaphthene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	83-32-9
Acenaphthylene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	62-53-3
Anthracene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	120-12-7
Benzo(a)anthracene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	56-55-3
Benzo(a)pyrene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	50-32-8
Benzo(b)fluoranthene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	205-99-2
Benzo(g,h,i)perylene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	191-24-2
Benzo(k)fluoranthene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	207-08-9
Benzoic Acid	ND	0.803	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	65-85-0
Benzyl Alcohol	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	100-51-6
Butyl Benzyl Phthalate	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	111-91-1
bis(2-chloroethyl) ether	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	117-81-7
Chrysene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	53-70-3
Dibenzofuran	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	132-64-9
Diethyl Phthalate	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	84-66-2
Dimethyl Phthalate	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	131-11-3
di-n-Butyl Phthalate	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	84-74-2
di-n-Octyl Phthalate	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	117-84-0
Fluoranthene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	206-44-0
Fluorene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	86-73-7
Hexachlorobenzene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	118-74-1
Hexachlorobutadiene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	87-68-3
Hexachlorocyclopentadiene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	77-47-4
Hexachloroethane	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	193-39-5
Isophorone	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	78-59-1
Naphthalene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	91-20-3
Nitrobenzene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	98-95-3
N-Nitrosodimethylamine	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	621-64-7
N-Nitrosodiphenylamine	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	86-30-6
Pentachlorophenol	ND	0.803	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	87-86-5
Phenanthrene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	85-01-8
Phenol	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	108-95-2

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Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB7 (1-3') (Continued)
Lab Sample ID: A6F0016-13 (Solid)

Sampled:
6/1/16 14:30

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Pyrene	ND	0.402	mg/Kg dry	1	6/9/16 16:45	6/13/16 14:10	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*73%*	*19-122*			6/13/16 14:10		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*60%*	*30-115*			6/13/16 14:10		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*53%*	*25-121*			6/13/16 14:10		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*56%*	*23-120*			6/13/16 14:10		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*59%*	*15-110*			6/13/16 14:10		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*84%*	*18-137*			6/13/16 14:10		1718-51-0
Total Mercury Analysis by Method 7471A								
Mercury	ND	0.104	mg/Kg dry	1	6/7/16 8:29	6/9/16 12:58	U	7439-97-6
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	630-20-6
1,1,1-Trichloroethane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	76-13-1
1,1,2-Trichloroethane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	79-00-5
1,1-Dichloroethane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	75-34-3
1,1-Dichloroethene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	75-35-4
1,1-Dichloropropene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	87-61-6
1,2,3-Trichloropropane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	106-93-4
1,2-Dichlorobenzene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	95-50-1
1,2-Dichloroethane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	107-06-2
1,2-Dichloropropane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	108-67-8
1,3-Dichlorobenzene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	541-73-1
1,3-Dichloropropane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	142-28-9
1,4-Dichlorobenzene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	106-46-7
2,2-Dichloropropane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0126	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U, L	110-75-8
2-Chlorotoluene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	95-49-8
2-Hexanone	ND	0.0632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	591-78-6
3,3-Dimethyl-1-butanol	ND	0.0632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	624-95-3

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB7 (1-3') (Continued)
Lab Sample ID: A6F0016-13 (Solid)

Sampled:
6/1/16 14:30

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
4-Chlorotoluene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.0632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	108-10-1
Acetone	ND	0.0632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U, F	67-64-1
Acrolein	ND	0.0126	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	107-02-8
Acrylonitrile	ND	0.0126	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	107-13-1
Benzene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	71-43-2
Bromobenzene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	108-86-1
Bromochloromethane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	74-97-5
Bromodichloromethane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	75-27-4
Bromoform	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	74-83-9
Carbon disulfide	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	75-15-0
Carbon tetrachloride	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	56-23-5
Chlorobenzene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	108-90-7
Chloroethane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	75-00-3
Chloroform	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	74-87-3
cis-1,2-Dichloroethene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	156-59-4
cis-1,3-Dichloropropene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	10061-01-5
Cyclohexane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	110-82-7
Dibromochloromethane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	124-48-1
Dibromomethane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	74-95-3
Dichlorodifluoromethane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	60-29-7
Ethyl methacrylate	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	97-63-2
Ethylbenzene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	100-41-4
Hexachlorobutadiene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	87-68-3
Isopropylbenzene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	98-82-8
m,p-Xylenes	ND	0.0126	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	179601-23-1
2-Butanone (MEK)	**0.0342**	0.0126	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45		78-93-3
Methyl acetate	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0126	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	1634-04-4
Methylcyclohexane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	108-87-2
Methylene Chloride	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	75-09-2
Naphthalene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	91-20-3
n-Butylbenzene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	104-51-8
n-Propylbenzene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	103-65-1
o-Xylene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	99-87-6

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB7 (1-3') (Continued)
Lab Sample ID: A6F0016-13 (Solid)

Sampled:
6/1/16 14:30

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
sec-Butylbenzene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	135-98-8
Styrene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	100-42-5
tert-Butylbenzene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	98-06-6
Tetrachloroethylene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	127-18-4
Tetrahydrofuran	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	109-99-9
Toluene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	108-88-3
Total Xylenes	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	156-60-5
trans-1,3-Dichloropropene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	1006-10-26
Trichloroethylene	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	79-01-6
Trichlorofluoromethane	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	75-69-4
Vinyl acetate	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U	108-05-4
Vinyl chloride	ND	0.00632	mg/Kg dry	1	6/6/16 15:59	6/7/16 0:45	U, H	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*107%*	*50-150*			6/7/16 0:45		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*113%*	*57-158*			6/7/16 0:45		460-00-4
Surrogate: Toluene-D8 (SUR)		*97%*	*50-150*			6/7/16 0:45		2037-26-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB7 (15')
Lab Sample ID: A6F0016-14 (Solid)

Sampled:
6/1/16 14:45

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Percent Moisture by Method 2540G								
% Solids	**69.0**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
Percent Moisture	**31.0**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	120-82-1
1,2-Dichlorobenzene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	95-50-1
1,3-Dichlorobenzene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	541-73-1
1,4-Dichlorobenzene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	106-46-7
1-Methylnaphthalene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	90-12-0
2,4,5-Trichlorophenol	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	95-95-4
2,4,6-Trichlorophenol	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	88-06-2
2,4-Dichlorophenol	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	120-83-2
2,4-Dimethylphenol	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	105-67-9
2,4-Dinitrophenol	ND	0.956	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	51-28-5
2,4-Dinitrotoluene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	121-14-2
2,6-Dinitrotoluene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	606-20-2
2-Chloronaphthalene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	91-58-7
2-Chlorophenol	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	95-57-8
2-Methylnaphthalene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	91-57-6
2-Methylphenol	ND	0.956	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	95-48-7
2-Nitroaniline	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	88-74-4
2-Nitrophenol	ND	0.956	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	88-75-5
3&4-Methylphenol	ND	1.20	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	91-94-1
3-Nitroaniline	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	534-52-1
4-Bromophenyl-phenylether	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	101-55-3
4-chloro-3-methylphenol	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	59-50-7
4-Nitroaniline	ND	0.956	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	100-01-6
4-Nitrophenol	ND	0.956	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	100-02-7
Acenaphthene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	83-32-9
Acenaphthylene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	62-53-3
Anthracene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	120-12-7
Benzo(a)anthracene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	56-55-3
Benzo(a)pyrene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	50-32-8
Benzo(b)fluoranthene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	205-99-2
Benzo(g,h,i)perylene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	191-24-2
Benzo(k)fluoranthene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	207-08-9

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB7 (15') (Continued)
Lab Sample ID: A6F0016-14 (Solid)

Sampled:
6/1/16 14:45

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Benzoic Acid	ND	0.956	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	65-85-0
Benzyl Alcohol	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	100-51-6
Butyl Benzyl Phthalate	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	111-91-1
bis(2-chloroethyl) ether	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	117-81-7
Chrysene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	53-70-3
Dibenzofuran	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	132-64-9
Diethyl Phthalate	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	84-66-2
Dimethyl Phthalate	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	131-11-3
di-n-Butyl Phthalate	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	84-74-2
di-n-Octyl Phthalate	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	117-84-0
Fluoranthene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	206-44-0
Fluorene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	86-73-7
Hexachlorobenzene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	118-74-1
Hexachlorobutadiene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	87-68-3
Hexachlorocyclopentadiene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	77-47-4
Hexachloroethane	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	193-39-5
Isophorone	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	78-59-1
Naphthalene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	91-20-3
Nitrobenzene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	98-95-3
N-Nitrosodimethylamine	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	621-64-7
N-Nitrosodiphenylamine	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	86-30-6
Pentachlorophenol	ND	0.956	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	87-86-5
Phenanthrene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	85-01-8
Phenol	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	108-95-2
Pyrene	ND	0.478	mg/Kg dry	1	6/8/16 15:00	6/9/16 23:51	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*41%*	*19-122*			6/9/16 23:51		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*33%*	*30-115*			6/9/16 23:51		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*36%*	*25-121*			6/9/16 23:51		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*32%*	*23-120*			6/9/16 23:51		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*37%*	*15-110*			6/9/16 23:51		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*87%*	*18-137*			6/9/16 23:51		1718-51-0

VOCs by Method 8260B

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No duplication of this report is allowed, except in its entirety.

Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB7 (15') (Continued)
Lab Sample ID: A6F0016-14 (Solid)

Sampled:
6/1/16 14:45

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
1,1,1,2-Tetrachloroethane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	630-20-6
1,1,1-Trichloroethane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	76-13-1
1,1,2-Trichloroethane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	79-00-5
1,1-Dichloroethane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	75-34-3
1,1-Dichloroethene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	75-35-4
1,1-Dichloropropene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	87-61-6
1,2,3-Trichloropropane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	106-93-4
1,2-Dichlorobenzene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	95-50-1
1,2-Dichloroethane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	107-06-2
1,2-Dichloropropane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	108-67-8
1,3-Dichlorobenzene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	541-73-1
1,3-Dichloropropane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	142-28-9
1,4-Dichlorobenzene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	106-46-7
2,2-Dichloropropane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0133	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U, L	110-75-8
2-Chlorotoluene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	95-49-8
2-Hexanone	ND	0.0667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	591-78-6
3,3-Dimethyl-1-butanol	ND	0.0667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	624-95-3
4-Chlorotoluene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.0667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	108-10-1
Acetone	ND	0.0667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U, F	67-64-1
Acrolein	ND	0.0133	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	107-02-8
Acrylonitrile	ND	0.0133	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	107-13-1
Benzene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	71-43-2
Bromobenzene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	108-86-1
Bromochloromethane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	74-97-5
Bromodichloromethane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	75-27-4
Bromoform	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	74-83-9
Carbon disulfide	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	75-15-0
Carbon tetrachloride	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	56-23-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB7 (15') (Continued)
Lab Sample ID: A6F0016-14 (Solid)

Sampled:
6/1/16 14:45

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Chlorobenzene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	108-90-7
Chloroethane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	75-00-3
Chloroform	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	74-87-3
cis-1,2-Dichloroethene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	156-59-4
cis-1,3-Dichloropropene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	10061-01-5
Cyclohexane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	110-82-7
Dibromochloromethane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	124-48-1
Dibromomethane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	74-95-3
Dichlorodifluoromethane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	60-29-7
Ethyl methacrylate	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	97-63-2
Ethylbenzene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	100-41-4
Hexachlorobutadiene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	87-68-3
Isopropylbenzene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	98-82-8
m,p-Xylenes	ND	0.0133	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	179601-23-1
2-Butanone (MEK)	ND	0.0133	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	78-93-3
Methyl acetate	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0133	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	1634-04-4
Methylcyclohexane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	108-87-2
Methylene Chloride	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	75-09-2
Naphthalene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	91-20-3
n-Butylbenzene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	104-51-8
n-Propylbenzene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	103-65-1
o-Xylene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	99-87-6
sec-Butylbenzene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	135-98-8
Styrene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	100-42-5
tert-Butylbenzene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	98-06-6
Tetrachloroethylene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	127-18-4
Tetrahydrofuran	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	109-99-9
Toluene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	108-88-3
Total Xylenes	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	156-60-5
trans-1,3-Dichloropropene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	1006-10-26
Trichloroethylene	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	79-01-6
Trichlorofluoromethane	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	75-69-4
Vinyl acetate	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U	108-05-4
Vinyl chloride	ND	0.00667	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:09	U, H	75-01-4

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB7 (15') (Continued)
Lab Sample ID: A6F0016-14 (Solid)

Sampled:
6/1/16 14:45

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*104%*	*50-150*			6/7/16 1:09		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*101%*	*57-158*			6/7/16 1:09		460-00-4
Surrogate: Toluene-D8 (SUR)		*97%*	*50-150*			6/7/16 1:09		2037-26-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB8 (1-3')
Lab Sample ID: A6F0016-15 (Solid)

Sampled:
6/1/16 15:15

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
7 RCRA Metals by Method 6010C								
Arsenic	ND	5.43	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:34	U	7440-38-2
Barium	**59.2**	5.43	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:34		7440-39-3
Cadmium	**23.0**	5.43	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:34		7440-43-9
Chromium	**24.4**	5.43	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:34		7440-47-3
Lead	**34.9**	5.43	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:34		7439-92-1
Selenium	ND	5.43	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:34	U	7782-49-2
Silver	ND	5.43	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:34	U	7440-22-4
Percent Moisture by Method 2540G								
% Solids	**82.3**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
Percent Moisture	**17.7**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	120-82-1
1,2-Dichlorobenzene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	95-50-1
1,3-Dichlorobenzene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	541-73-1
1,4-Dichlorobenzene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	106-46-7
1-Methylnaphthalene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	90-12-0
2,4,5-Trichlorophenol	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	95-95-4
2,4,6-Trichlorophenol	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	88-06-2
2,4-Dichlorophenol	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	120-83-2
2,4-Dimethylphenol	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	105-67-9
2,4-Dinitrophenol	ND	0.805	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	51-28-5
2,4-Dinitrotoluene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	121-14-2
2,6-Dinitrotoluene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	606-20-2
2-Chloronaphthalene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	91-58-7
2-Chlorophenol	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	95-57-8
2-Methylnaphthalene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	91-57-6
2-Methylphenol	ND	0.805	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	95-48-7
2-Nitroaniline	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	88-74-4
2-Nitrophenol	ND	0.805	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	88-75-5
3&4-Methylphenol	ND	1.01	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	91-94-1
3-Nitroaniline	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	534-52-1
4-Bromophenyl-phenylether	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	101-55-3
4-chloro-3-methylphenol	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	59-50-7
4-Nitroaniline	ND	0.805	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	100-01-6
4-Nitrophenol	ND	0.805	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	100-02-7

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB8 (1-3') (Continued)
Lab Sample ID: A6F0016-15 (Solid)

Sampled:
6/1/16 15:15

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Acenaphthene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	83-32-9
Acenaphthylene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	62-53-3
Anthracene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	120-12-7
Benzo(a)anthracene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	56-55-3
Benzo(a)pyrene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	50-32-8
Benzo(b)fluoranthene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	205-99-2
Benzo(g,h,i)perylene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	191-24-2
Benzo(k)fluoranthene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	207-08-9
Benzoic Acid	ND	0.805	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	65-85-0
Benzyl Alcohol	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	100-51-6
Butyl Benzyl Phthalate	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	111-91-1
bis(2-chloroethyl) ether	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	117-81-7
Chrysene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	53-70-3
Dibenzofuran	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	132-64-9
Diethyl Phthalate	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	84-66-2
Dimethyl Phthalate	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	131-11-3
di-n-Butyl Phthalate	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	84-74-2
di-n-Octyl Phthalate	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	117-84-0
Fluoranthene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	206-44-0
Fluorene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	86-73-7
Hexachlorobenzene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	118-74-1
Hexachlorobutadiene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	87-68-3
Hexachlorocyclopentadiene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	77-47-4
Hexachloroethane	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	193-39-5
Isophorone	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	78-59-1
Naphthalene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	91-20-3
Nitrobenzene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	98-95-3
N-Nitrosodimethylamine	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	621-64-7
N-Nitrosodiphenylamine	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	86-30-6
Pentachlorophenol	ND	0.805	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	87-86-5
Phenanthrene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	85-01-8
Phenol	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	108-95-2

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB8 (1-3') (Continued)
Lab Sample ID: A6F0016-15 (Solid)

Sampled:
6/1/16 15:15

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Pyrene	ND	0.402	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:20	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*40%*	*19-122*			6/10/16 0:20		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*31%*	*30-115*			6/10/16 0:20		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*32%*	*25-121*			6/10/16 0:20		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*29%*	*23-120*			6/10/16 0:20		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*35%*	*15-110*			6/10/16 0:20		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*46%*	*18-137*			6/10/16 0:20		1718-51-0
Total Mercury Analysis by Method 7471A								
Mercury	ND	0.111	mg/Kg dry	1	6/7/16 8:29	6/9/16 12:58	U	7439-97-6
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	630-20-6
1,1,1-Trichloroethane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	76-13-1
1,1,2-Trichloroethane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	79-00-5
1,1-Dichloroethane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	75-34-3
1,1-Dichloroethene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	75-35-4
1,1-Dichloropropene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	87-61-6
1,2,3-Trichloropropane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	106-93-4
1,2-Dichlorobenzene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	95-50-1
1,2-Dichloroethane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	107-06-2
1,2-Dichloropropane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	108-67-8
1,3-Dichlorobenzene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	541-73-1
1,3-Dichloropropane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	142-28-9
1,4-Dichlorobenzene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	106-46-7
2,2-Dichloropropane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0143	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U, L	110-75-8
2-Chlorotoluene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	95-49-8
2-Hexanone	ND	0.0715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	591-78-6
3,3-Dimethyl-1-butanol	ND	0.0715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	624-95-3

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB8 (1-3') (Continued)
Lab Sample ID: A6F0016-15 (Solid)

Sampled:
6/1/16 15:15

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
4-Chlorotoluene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.0715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	108-10-1
Acetone	**0.217**	0.0715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	F	67-64-1
Acrolein	ND	0.0143	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	107-02-8
Acrylonitrile	ND	0.0143	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	107-13-1
Benzene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	71-43-2
Bromobenzene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	108-86-1
Bromochloromethane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	74-97-5
Bromodichloromethane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	75-27-4
Bromoform	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	74-83-9
Carbon disulfide	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	75-15-0
Carbon tetrachloride	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	56-23-5
Chlorobenzene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	108-90-7
Chloroethane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	75-00-3
Chloroform	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	74-87-3
cis-1,2-Dichloroethene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	156-59-4
cis-1,3-Dichloropropene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	10061-01-5
Cyclohexane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	110-82-7
Dibromochloromethane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	124-48-1
Dibromomethane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	74-95-3
Dichlorodifluoromethane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	60-29-7
Ethyl methacrylate	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	97-63-2
Ethylbenzene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	100-41-4
Hexachlorobutadiene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	87-68-3
Isopropylbenzene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	98-82-8
m,p-Xylenes	ND	0.0143	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	179601-23-1
2-Butanone (MEK)	ND	0.0143	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	78-93-3
Methyl acetate	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0143	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	1634-04-4
Methylcyclohexane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	108-87-2
Methylene Chloride	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	75-09-2
Naphthalene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	91-20-3
n-Butylbenzene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	104-51-8
n-Propylbenzene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	103-65-1
o-Xylene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	99-87-6

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB8 (1-3') (Continued)
Lab Sample ID: A6F0016-15 (Solid)

Sampled:
6/1/16 15:15

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
sec-Butylbenzene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	135-98-8
Styrene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	100-42-5
tert-Butylbenzene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	98-06-6
Tetrachloroethylene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	127-18-4
Tetrahydrofuran	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	109-99-9
Toluene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	108-88-3
Total Xylenes	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	156-60-5
trans-1,3-Dichloropropene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	1006-10-26
Trichloroethylene	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	79-01-6
Trichlorofluoromethane	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	75-69-4
Vinyl acetate	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U	108-05-4
Vinyl chloride	ND	0.00715	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:33	U, H	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*111%*	*50-150*			6/7/16 1:33		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*122%*	*57-158*			6/7/16 1:33		460-00-4
Surrogate: Toluene-D8 (SUR)		*104%*	*50-150*			6/7/16 1:33		2037-26-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB8 (6')
Lab Sample ID: A6F0016-16 (Solid)

Sampled:
6/1/16 15:30

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Percent Moisture by Method 2540G								
% Solids	**76.8**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
Percent Moisture	**23.2**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	120-82-1
1,2-Dichlorobenzene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	95-50-1
1,3-Dichlorobenzene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	541-73-1
1,4-Dichlorobenzene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	106-46-7
1-Methylnaphthalene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	90-12-0
2,4,5-Trichlorophenol	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	95-95-4
2,4,6-Trichlorophenol	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	88-06-2
2,4-Dichlorophenol	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	120-83-2
2,4-Dimethylphenol	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	105-67-9
2,4-Dinitrophenol	ND	0.865	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	51-28-5
2,4-Dinitrotoluene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	121-14-2
2,6-Dinitrotoluene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	606-20-2
2-Chloronaphthalene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	91-58-7
2-Chlorophenol	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	95-57-8
2-Methylnaphthalene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	91-57-6
2-Methylphenol	ND	0.865	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	95-48-7
2-Nitroaniline	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	88-74-4
2-Nitrophenol	ND	0.865	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	88-75-5
3&4-Methylphenol	ND	1.08	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	91-94-1
3-Nitroaniline	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	534-52-1
4-Bromophenyl-phenylether	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	101-55-3
4-chloro-3-methylphenol	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	59-50-7
4-Nitroaniline	ND	0.865	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	100-01-6
4-Nitrophenol	ND	0.865	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	100-02-7
Acenaphthene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	83-32-9
Acenaphthylene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	62-53-3
Anthracene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	120-12-7
Benzo(a)anthracene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	56-55-3
Benzo(a)pyrene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	50-32-8
Benzo(b)fluoranthene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	205-99-2
Benzo(g,h,i)perylene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	191-24-2
Benzo(k)fluoranthene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	207-08-9

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB8 (6') (Continued)
Lab Sample ID: A6F0016-16 (Solid)

Sampled:
6/1/16 15:30

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Benzoic Acid	ND	0.865	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	65-85-0
Benzyl Alcohol	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	100-51-6
Butyl Benzyl Phthalate	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	111-91-1
bis(2-chloroethyl) ether	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	117-81-7
Chrysene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	53-70-3
Dibenzofuran	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	132-64-9
Diethyl Phthalate	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	84-66-2
Dimethyl Phthalate	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	131-11-3
di-n-Butyl Phthalate	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	84-74-2
di-n-Octyl Phthalate	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	117-84-0
Fluoranthene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	206-44-0
Fluorene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	86-73-7
Hexachlorobenzene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	118-74-1
Hexachlorobutadiene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	87-68-3
Hexachlorocyclopentadiene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	77-47-4
Hexachloroethane	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	193-39-5
Isophorone	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	78-59-1
Naphthalene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	91-20-3
Nitrobenzene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	98-95-3
N-Nitrosodimethylamine	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	621-64-7
N-Nitrosodiphenylamine	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	86-30-6
Pentachlorophenol	ND	0.865	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	87-86-5
Phenanthrene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	85-01-8
Phenol	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	108-95-2
Pyrene	ND	0.433	mg/Kg dry	1	6/8/16 15:00	6/10/16 0:48	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*49%*	*19-122*			6/10/16 0:48		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*31%*	*30-115*			6/10/16 0:48		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*33%*	*25-121*			6/10/16 0:48		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*32%*	*23-120*			6/10/16 0:48		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*37%*	*15-110*			6/10/16 0:48		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*61%*	*18-137*			6/10/16 0:48		1718-51-0
VOCs by Method 8260B								

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB8 (6') (Continued)
Lab Sample ID: A6F0016-16 (Solid)

Sampled:
6/1/16 15:30

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
1,1,1,2-Tetrachloroethane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	630-20-6
1,1,1-Trichloroethane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	76-13-1
1,1,2-Trichloroethane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	79-00-5
1,1-Dichloroethane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	75-34-3
1,1-Dichloroethene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	75-35-4
1,1-Dichloropropene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	87-61-6
1,2,3-Trichloropropane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	106-93-4
1,2-Dichlorobenzene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	95-50-1
1,2-Dichloroethane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	107-06-2
1,2-Dichloropropane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	108-67-8
1,3-Dichlorobenzene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	541-73-1
1,3-Dichloropropane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	142-28-9
1,4-Dichlorobenzene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	106-46-7
2,2-Dichloropropane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0148	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U, L	110-75-8
2-Chlorotoluene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	95-49-8
2-Hexanone	ND	0.0740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	591-78-6
3,3-Dimethyl-1-butanol	ND	0.0740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	624-95-3
4-Chlorotoluene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.0740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	108-10-1
Acetone	**0.330**	0.0740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	F	67-64-1
Acrolein	ND	0.0148	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	107-02-8
Acrylonitrile	ND	0.0148	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	107-13-1
Benzene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	71-43-2
Bromobenzene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	108-86-1
Bromochloromethane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	74-97-5
Bromodichloromethane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	75-27-4
Bromoform	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	74-83-9
Carbon disulfide	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	75-15-0
Carbon tetrachloride	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	56-23-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB8 (6') (Continued)
Lab Sample ID: A6F0016-16 (Solid)

Sampled:
6/1/16 15:30

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Chlorobenzene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	108-90-7
Chloroethane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	75-00-3
Chloroform	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	74-87-3
cis-1,2-Dichloroethene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	156-59-4
cis-1,3-Dichloropropene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	10061-01-5
Cyclohexane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	110-82-7
Dibromochloromethane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	124-48-1
Dibromomethane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	74-95-3
Dichlorodifluoromethane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	60-29-7
Ethyl methacrylate	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	97-63-2
Ethylbenzene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	100-41-4
Hexachlorobutadiene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	87-68-3
Isopropylbenzene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	98-82-8
m,p-Xylenes	ND	0.0148	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	179601-23-1
2-Butanone (MEK)	**0.0368**	0.0148	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58		78-93-3
Methyl acetate	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0148	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	1634-04-4
Methylcyclohexane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	108-87-2
Methylene Chloride	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	75-09-2
Naphthalene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	91-20-3
n-Butylbenzene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	104-51-8
n-Propylbenzene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	103-65-1
o-Xylene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	99-87-6
sec-Butylbenzene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	135-98-8
Styrene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	100-42-5
tert-Butylbenzene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	98-06-6
Tetrachloroethylene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	127-18-4
Tetrahydrofuran	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	109-99-9
Toluene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	108-88-3
Total Xylenes	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	156-60-5
trans-1,3-Dichloropropene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	1006-10-26
Trichloroethylene	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	79-01-6
Trichlorofluoromethane	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	75-69-4
Vinyl acetate	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U	108-05-4
Vinyl chloride	ND	0.00740	mg/Kg dry	1	6/6/16 15:59	6/7/16 1:58	U, H	75-01-4

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB8 (6') (Continued)
Lab Sample ID: A6F0016-16 (Solid)

Sampled:
6/1/16 15:30

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*104%*	*50-150*			6/7/16 1:58		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*104%*	*57-158*			6/7/16 1:58		460-00-4
Surrogate: Toluene-D8 (SUR)		*95%*	*50-150*			6/7/16 1:58		2037-26-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB9 (1-3')
Lab Sample ID: A6F0016-17 (Solid)

Sampled:
6/2/16 9:30

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
7 RCRA Metals by Method 6010C								
Arsenic	ND	6.44	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:36	U	7440-38-2
Barium	**156**	6.44	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:36		7440-39-3
Cadmium	ND	6.44	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:36	U	7440-43-9
Chromium	**56.0**	6.44	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:36		7440-47-3
Lead	**91.3**	6.44	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:36		7439-92-1
Selenium	ND	6.44	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:36	U	7782-49-2
Silver	ND	6.44	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:36	U	7440-22-4
Percent Moisture by Method 2540G								
% Solids	**76.9**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
Percent Moisture	**23.1**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	120-82-1
1,2-Dichlorobenzene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	95-50-1
1,3-Dichlorobenzene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	541-73-1
1,4-Dichlorobenzene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	106-46-7
1-Methylnaphthalene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	90-12-0
2,4,5-Trichlorophenol	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	95-95-4
2,4,6-Trichlorophenol	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	88-06-2
2,4-Dichlorophenol	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	120-83-2
2,4-Dimethylphenol	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	105-67-9
2,4-Dinitrophenol	ND	0.865	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	51-28-5
2,4-Dinitrotoluene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	121-14-2
2,6-Dinitrotoluene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	606-20-2
2-Chloronaphthalene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	91-58-7
2-Chlorophenol	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	95-57-8
2-Methylnaphthalene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	91-57-6
2-Methylphenol	ND	0.865	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	95-48-7
2-Nitroaniline	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	88-74-4
2-Nitrophenol	ND	0.865	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	88-75-5
3&4-Methylphenol	ND	1.08	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	91-94-1
3-Nitroaniline	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	534-52-1
4-Bromophenyl-phenylether	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	101-55-3
4-chloro-3-methylphenol	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	59-50-7
4-Nitroaniline	ND	0.865	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	100-01-6
4-Nitrophenol	ND	0.865	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	100-02-7

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB9 (1-3') (Continued)
Lab Sample ID: A6F0016-17 (Solid)

Sampled:
6/2/16 9:30

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Acenaphthene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	83-32-9
Acenaphthylene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	62-53-3
Anthracene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	120-12-7
Benzo(a)anthracene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	56-55-3
Benzo(a)pyrene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	50-32-8
Benzo(b)fluoranthene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	205-99-2
Benzo(g,h,i)perylene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	191-24-2
Benzo(k)fluoranthene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	207-08-9
Benzoic Acid	ND	0.865	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	65-85-0
Benzyl Alcohol	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	100-51-6
Butyl Benzyl Phthalate	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	111-91-1
bis(2-chloroethyl) ether	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	117-81-7
Chrysene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	53-70-3
Dibenzofuran	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	132-64-9
Diethyl Phthalate	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	84-66-2
Dimethyl Phthalate	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	131-11-3
di-n-Butyl Phthalate	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	84-74-2
di-n-Octyl Phthalate	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	117-84-0
Fluoranthene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	206-44-0
Fluorene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	86-73-7
Hexachlorobenzene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	118-74-1
Hexachlorobutadiene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	87-68-3
Hexachlorocyclopentadiene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	77-47-4
Hexachloroethane	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	193-39-5
Isophorone	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	78-59-1
Naphthalene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	91-20-3
Nitrobenzene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	98-95-3
N-Nitrosodimethylamine	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	621-64-7
N-Nitrosodiphenylamine	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	86-30-6
Pentachlorophenol	ND	0.865	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	87-86-5
Phenanthrene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	85-01-8
Phenol	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	108-95-2

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB9 (1-3') (Continued)
Lab Sample ID: A6F0016-17 (Solid)

Sampled:
6/2/16 9:30

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Pyrene	ND	0.432	mg/Kg dry	1	6/8/16 15:00	6/10/16 1:54	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*60%*	*19-122*			6/10/16 1:54		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*33%*	*30-115*			6/10/16 1:54		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*37%*	*25-121*			6/10/16 1:54		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*32%*	*23-120*			6/10/16 1:54		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*40%*	*15-110*			6/10/16 1:54		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*73%*	*18-137*			6/10/16 1:54		1718-51-0
Total Mercury Analysis by Method 7471A								
Mercury	ND	0.118	mg/Kg dry	1	6/7/16 8:29	6/9/16 12:58	U	7439-97-6
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	630-20-6
1,1,1-Trichloroethane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	76-13-1
1,1,2-Trichloroethane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	79-00-5
1,1-Dichloroethane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	75-34-3
1,1-Dichloroethene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	75-35-4
1,1-Dichloropropene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	87-61-6
1,2,3-Trichloropropane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	106-93-4
1,2-Dichlorobenzene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	95-50-1
1,2-Dichloroethane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	107-06-2
1,2-Dichloropropane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	108-67-8
1,3-Dichlorobenzene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	541-73-1
1,3-Dichloropropane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	142-28-9
1,4-Dichlorobenzene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	106-46-7
2,2-Dichloropropane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0130	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U, L	110-75-8
2-Chlorotoluene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	95-49-8
2-Hexanone	ND	0.0650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	591-78-6
3,3-Dimethyl-1-butanol	ND	0.0650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	624-95-3

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB9 (1-3') (Continued)
Lab Sample ID: A6F0016-17 (Solid)

Sampled:
6/2/16 9:30

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
4-Chlorotoluene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.0650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	108-10-1
Acetone	**0.300**	0.0650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32		67-64-1
Acrolein	ND	0.0130	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	107-02-8
Acrylonitrile	ND	0.0130	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	107-13-1
Benzene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	71-43-2
Bromobenzene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	108-86-1
Bromochloromethane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	74-97-5
Bromodichloromethane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	75-27-4
Bromoform	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	74-83-9
Carbon disulfide	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	75-15-0
Carbon tetrachloride	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	56-23-5
Chlorobenzene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	108-90-7
Chloroethane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	75-00-3
Chloroform	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	74-87-3
cis-1,2-Dichloroethene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	156-59-4
cis-1,3-Dichloropropene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	10061-01-5
Cyclohexane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	110-82-7
Dibromochloromethane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	124-48-1
Dibromomethane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	74-95-3
Dichlorodifluoromethane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	60-29-7
Ethyl methacrylate	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	97-63-2
Ethylbenzene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	100-41-4
Hexachlorobutadiene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	87-68-3
Isopropylbenzene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	98-82-8
m,p-Xylenes	ND	0.0130	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	179601-23-1
2-Butanone (MEK)	**0.0319**	0.0130	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32		78-93-3
Methyl acetate	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0130	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	1634-04-4
Methylcyclohexane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	108-87-2
Methylene Chloride	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	75-09-2
Naphthalene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	91-20-3
n-Butylbenzene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	104-51-8
n-Propylbenzene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	103-65-1
o-Xylene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	99-87-6

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB9 (1-3') (Continued)
Lab Sample ID: A6F0016-17 (Solid)

Sampled:
6/2/16 9:30

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
sec-Butylbenzene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	135-98-8
Styrene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	100-42-5
tert-Butylbenzene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	98-06-6
Tetrachloroethylene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	127-18-4
Tetrahydrofuran	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	109-99-9
Toluene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	108-88-3
Total Xylenes	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	156-60-5
trans-1,3-Dichloropropene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	1006-10-26
Trichloroethylene	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	79-01-6
Trichlorofluoromethane	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U, L	75-69-4
Vinyl acetate	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	108-05-4
Vinyl chloride	ND	0.00650	mg/Kg dry	1	6/7/16 9:29	6/7/16 12:32	U	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*88%*	*50-150*			6/7/16 12:32		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*111%*	*57-158*			6/7/16 12:32		460-00-4
Surrogate: Toluene-D8 (SUR)		*99%*	*50-150*			6/7/16 12:32		2037-26-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB9 (12')
Lab Sample ID: A6F0016-18 (Solid)

Sampled:
6/2/16 9:45

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Percent Moisture by Method 2540G								
% Solids	**87.8**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
Percent Moisture	**12.2**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	120-82-1
1,2-Dichlorobenzene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	95-50-1
1,3-Dichlorobenzene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	541-73-1
1,4-Dichlorobenzene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	106-46-7
1-Methylnaphthalene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	90-12-0
2,4,5-Trichlorophenol	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	95-95-4
2,4,6-Trichlorophenol	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	88-06-2
2,4-Dichlorophenol	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	120-83-2
2,4-Dimethylphenol	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	105-67-9
2,4-Dinitrophenol	ND	0.750	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	51-28-5
2,4-Dinitrotoluene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	121-14-2
2,6-Dinitrotoluene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	606-20-2
2-Chloronaphthalene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	91-58-7
2-Chlorophenol	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	95-57-8
2-Methylnaphthalene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	91-57-6
2-Methylphenol	ND	0.750	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	95-48-7
2-Nitroaniline	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	88-74-4
2-Nitrophenol	ND	0.750	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	88-75-5
3&4-Methylphenol	ND	0.939	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	91-94-1
3-Nitroaniline	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	534-52-1
4-Bromophenyl-phenylether	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	101-55-3
4-chloro-3-methylphenol	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	59-50-7
4-Nitroaniline	ND	0.750	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	100-01-6
4-Nitrophenol	ND	0.750	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	100-02-7
Acenaphthene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	83-32-9
Acenaphthylene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	62-53-3
Anthracene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	120-12-7
Benzo(a)anthracene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	56-55-3
Benzo(a)pyrene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	50-32-8
Benzo(b)fluoranthene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	205-99-2
Benzo(g,h,i)perylene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	191-24-2
Benzo(k)fluoranthene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	207-08-9

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB9 (12') (Continued)
Lab Sample ID: A6F0016-18 (Solid)

Sampled:
6/2/16 9:45

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Benzoic Acid	ND	0.750	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	65-85-0
Benzyl Alcohol	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	100-51-6
Butyl Benzyl Phthalate	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	111-91-1
bis(2-chloroethyl) ether	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	117-81-7
Chrysene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	53-70-3
Dibenzofuran	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	132-64-9
Diethyl Phthalate	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	84-66-2
Dimethyl Phthalate	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	131-11-3
di-n-Butyl Phthalate	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	84-74-2
di-n-Octyl Phthalate	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	117-84-0
Fluoranthene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	206-44-0
Fluorene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	86-73-7
Hexachlorobenzene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	118-74-1
Hexachlorobutadiene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	87-68-3
Hexachlorocyclopentadiene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	77-47-4
Hexachloroethane	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	193-39-5
Isophorone	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	78-59-1
Naphthalene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	91-20-3
Nitrobenzene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	98-95-3
N-Nitrosodimethylamine	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	621-64-7
N-Nitrosodiphenylamine	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	86-30-6
Pentachlorophenol	ND	0.750	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	87-86-5
Phenanthrene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	85-01-8
Phenol	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	108-95-2
Pyrene	ND	0.375	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:14	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*61%*	*19-122*			6/10/16 5:14		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*44%*	*30-115*			6/10/16 5:14		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*41%*	*25-121*			6/10/16 5:14		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*39%*	*23-120*			6/10/16 5:14		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*44%*	*15-110*			6/10/16 5:14		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*73%*	*18-137*			6/10/16 5:14		1718-51-0

VOCs by Method 8260B

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB9 (12') (Continued)
Lab Sample ID: A6F0016-18 (Solid)

Sampled:
6/2/16 9:45

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
1,1,1,2-Tetrachloroethane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	630-20-6
1,1,1-Trichloroethane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	76-13-1
1,1,2-Trichloroethane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	79-00-5
1,1-Dichloroethane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	75-34-3
1,1-Dichloroethene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	75-35-4
1,1-Dichloropropene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	87-61-6
1,2,3-Trichloropropane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	106-93-4
1,2-Dichlorobenzene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	95-50-1
1,2-Dichloroethane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	107-06-2
1,2-Dichloropropane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	108-67-8
1,3-Dichlorobenzene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	541-73-1
1,3-Dichloropropane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	142-28-9
1,4-Dichlorobenzene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	106-46-7
2,2-Dichloropropane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0114	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U, L	110-75-8
2-Chlorotoluene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	95-49-8
2-Hexanone	ND	0.0569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	591-78-6
3,3-Dimethyl-1-butanol	ND	0.0569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	624-95-3
4-Chlorotoluene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.0569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	108-10-1
Acetone	ND	0.0569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	67-64-1
Acrolein	ND	0.0114	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	107-02-8
Acrylonitrile	ND	0.0114	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	107-13-1
Benzene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	71-43-2
Bromobenzene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	108-86-1
Bromochloromethane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	74-97-5
Bromodichloromethane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	75-27-4
Bromoform	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	74-83-9
Carbon disulfide	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	75-15-0
Carbon tetrachloride	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	56-23-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB9 (12') (Continued)
Lab Sample ID: A6F0016-18 (Solid)

Sampled:
6/2/16 9:45

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Chlorobenzene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	108-90-7
Chloroethane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	75-00-3
Chloroform	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	74-87-3
cis-1,2-Dichloroethene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	156-59-4
cis-1,3-Dichloropropene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	10061-01-5
Cyclohexane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	110-82-7
Dibromochloromethane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	124-48-1
Dibromomethane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	74-95-3
Dichlorodifluoromethane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	60-29-7
Ethyl methacrylate	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	97-63-2
Ethylbenzene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	100-41-4
Hexachlorobutadiene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	87-68-3
Isopropylbenzene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	98-82-8
m,p-Xylenes	ND	0.0114	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	179601-23-1
2-Butanone (MEK)	ND	0.0114	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	78-93-3
Methyl acetate	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0114	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	1634-04-4
Methylcyclohexane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	108-87-2
Methylene Chloride	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	75-09-2
Naphthalene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	91-20-3
n-Butylbenzene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	104-51-8
n-Propylbenzene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	103-65-1
o-Xylene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	99-87-6
sec-Butylbenzene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	135-98-8
Styrene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	100-42-5
tert-Butylbenzene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	98-06-6
Tetrachloroethylene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	127-18-4
Tetrahydrofuran	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	109-99-9
Toluene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	108-88-3
Total Xylenes	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	156-60-5
trans-1,3-Dichloropropene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	1006-10-26
Trichloroethylene	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	79-01-6
Trichlorofluoromethane	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U, L	75-69-4
Vinyl acetate	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	108-05-4
Vinyl chloride	ND	0.00569	mg/Kg dry	1	6/7/16 9:29	6/7/16 15:35	U	75-01-4

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB9 (12') (Continued)
Lab Sample ID: A6F0016-18 (Solid)

Sampled:
6/2/16 9:45

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*105%*	*50-150*			6/7/16 15:35		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*112%*	*57-158*			6/7/16 15:35		460-00-4
Surrogate: Toluene-D8 (SUR)		*100%*	*50-150*			6/7/16 15:35		2037-26-5

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB10 (1-3')
Lab Sample ID: A6F0016-19 (Solid)

Sampled:
6/2/16 10:30

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
7 RCRA Metals by Method 6010C								
Arsenic	ND	6.45	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:38	U	7440-38-2
Barium	**379**	6.45	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:38		7440-39-3
Cadmium	ND	6.45	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:38	U	7440-43-9
Chromium	**65.5**	6.45	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:38		7440-47-3
Lead	**30.6**	6.45	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:38		7439-92-1
Selenium	ND	6.45	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:38	U	7782-49-2
Silver	ND	6.45	mg/Kg dry	1	6/7/16 11:03	6/8/16 13:38	U	7440-22-4
Percent Moisture by Method 2540G								
% Solids	**64.0**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
Percent Moisture	**36.0**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	120-82-1
1,2-Dichlorobenzene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	95-50-1
1,3-Dichlorobenzene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	541-73-1
1,4-Dichlorobenzene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	106-46-7
1-Methylnaphthalene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	90-12-0
2,4,5-Trichlorophenol	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	95-95-4
2,4,6-Trichlorophenol	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	88-06-2
2,4-Dichlorophenol	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	120-83-2
2,4-Dimethylphenol	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	105-67-9
2,4-Dinitrophenol	ND	1.04	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	51-28-5
2,4-Dinitrotoluene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	121-14-2
2,6-Dinitrotoluene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	606-20-2
2-Chloronaphthalene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	91-58-7
2-Chlorophenol	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	95-57-8
2-Methylnaphthalene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	91-57-6
2-Methylphenol	ND	1.04	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	95-48-7
2-Nitroaniline	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	88-74-4
2-Nitrophenol	ND	1.04	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	88-75-5
3&4-Methylphenol	ND	1.30	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	91-94-1
3-Nitroaniline	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	534-52-1
4-Bromophenyl-phenylether	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	101-55-3
4-chloro-3-methylphenol	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	59-50-7
4-Nitroaniline	ND	1.04	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	100-01-6
4-Nitrophenol	ND	1.04	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	100-02-7

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB10 (1-3') (Continued)
Lab Sample ID: A6F0016-19 (Solid)

Sampled:
6/2/16 10:30

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Acenaphthene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	83-32-9
Acenaphthylene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	62-53-3
Anthracene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	120-12-7
Benzo(a)anthracene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	56-55-3
Benzo(a)pyrene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	50-32-8
Benzo(b)fluoranthene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	205-99-2
Benzo(g,h,i)perylene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	191-24-2
Benzo(k)fluoranthene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	207-08-9
Benzoic Acid	ND	1.04	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	65-85-0
Benzyl Alcohol	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	100-51-6
Butyl Benzyl Phthalate	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	111-91-1
bis(2-chloroethyl) ether	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	117-81-7
Chrysene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	53-70-3
Dibenzofuran	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	132-64-9
Diethyl Phthalate	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	84-66-2
Dimethyl Phthalate	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	131-11-3
di-n-Butyl Phthalate	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	84-74-2
di-n-Octyl Phthalate	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	117-84-0
Fluoranthene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	206-44-0
Fluorene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	86-73-7
Hexachlorobenzene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	118-74-1
Hexachlorobutadiene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	87-68-3
Hexachlorocyclopentadiene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	77-47-4
Hexachloroethane	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	193-39-5
Isophorone	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	78-59-1
Naphthalene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	91-20-3
Nitrobenzene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	98-95-3
N-Nitrosodimethylamine	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	621-64-7
N-Nitrosodiphenylamine	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	86-30-6
Pentachlorophenol	ND	1.04	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	87-86-5
Phenanthrene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	85-01-8
Phenol	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	108-95-2

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB10 (1-3') (Continued)
Lab Sample ID: A6F0016-19 (Solid)

Sampled:
6/2/16 10:30

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Pyrene	ND	0.518	mg/Kg dry	1	6/8/16 15:00	6/10/16 5:42	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*77%*	*19-122*			6/10/16 5:42		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*41%*	*30-115*			6/10/16 5:42		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*32%*	*25-121*			6/10/16 5:42		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*34%*	*23-120*			6/10/16 5:42		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*41%*	*15-110*			6/10/16 5:42		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*83%*	*18-137*			6/10/16 5:42		1718-51-0
Total Mercury Analysis by Method 7471A								
Mercury	ND	0.153	mg/Kg dry	1	6/7/16 8:29	6/9/16 12:58	U	7439-97-6
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	630-20-6
1,1,1-Trichloroethane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	76-13-1
1,1,2-Trichloroethane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	79-00-5
1,1-Dichloroethane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	75-34-3
1,1-Dichloroethene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	75-35-4
1,1-Dichloropropene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	87-61-6
1,2,3-Trichloropropane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	106-93-4
1,2-Dichlorobenzene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	95-50-1
1,2-Dichloroethane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	107-06-2
1,2-Dichloropropane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	108-67-8
1,3-Dichlorobenzene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	541-73-1
1,3-Dichloropropane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	142-28-9
1,4-Dichlorobenzene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	106-46-7
2,2-Dichloropropane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0156	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U, L	110-75-8
2-Chlorotoluene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	95-49-8
2-Hexanone	ND	0.0781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	591-78-6
3,3-Dimethyl-1-butanol	ND	0.0781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	624-95-3

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB10 (1-3') (Continued)
Lab Sample ID: A6F0016-19 (Solid)

Sampled:
6/2/16 10:30

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
4-Chlorotoluene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.0781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	108-10-1
Acetone	**0.0785**	0.0781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10		67-64-1
Acrolein	ND	0.0156	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	107-02-8
Acrylonitrile	ND	0.0156	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	107-13-1
Benzene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	71-43-2
Bromobenzene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	108-86-1
Bromochloromethane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	74-97-5
Bromodichloromethane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	75-27-4
Bromoform	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	74-83-9
Carbon disulfide	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	75-15-0
Carbon tetrachloride	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	56-23-5
Chlorobenzene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	108-90-7
Chloroethane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	75-00-3
Chloroform	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	74-87-3
cis-1,2-Dichloroethene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	156-59-4
cis-1,3-Dichloropropene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	10061-01-5
Cyclohexane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	110-82-7
Dibromochloromethane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	124-48-1
Dibromomethane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	74-95-3
Dichlorodifluoromethane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	60-29-7
Ethyl methacrylate	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	97-63-2
Ethylbenzene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	100-41-4
Hexachlorobutadiene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	87-68-3
Isopropylbenzene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	98-82-8
m,p-Xylenes	ND	0.0156	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	179601-23-1
2-Butanone (MEK)	**0.0387**	0.0156	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10		78-93-3
Methyl acetate	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0156	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	1634-04-4
Methylcyclohexane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	108-87-2
Methylene Chloride	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	75-09-2
Naphthalene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	91-20-3
n-Butylbenzene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	104-51-8
n-Propylbenzene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	103-65-1
o-Xylene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	99-87-6

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB10 (1-3') (Continued)
Lab Sample ID: A6F0016-19 (Solid)

Sampled:
6/2/16 10:30

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
sec-Butylbenzene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	135-98-8
Styrene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	100-42-5
tert-Butylbenzene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	98-06-6
Tetrachloroethylene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	127-18-4
Tetrahydrofuran	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	109-99-9
Toluene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	108-88-3
Total Xylenes	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	156-60-5
trans-1,3-Dichloropropene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	1006-10-26
Trichloroethylene	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	79-01-6
Trichlorofluoromethane	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U, L	75-69-4
Vinyl acetate	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	108-05-4
Vinyl chloride	ND	0.00781	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:10	U	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*109%*	*50-150*			6/7/16 16:10		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*104%*	*57-158*			6/7/16 16:10		460-00-4
Surrogate: Toluene-D8 (SUR)		*94%*	*50-150*			6/7/16 16:10		2037-26-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB10 (12')
Lab Sample ID: A6F0016-20 (Solid)

Sampled:
6/2/16 10:45

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Percent Moisture by Method 2540G								
% Solids	**82.2**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
Percent Moisture	**17.8**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	120-82-1
1,2-Dichlorobenzene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	95-50-1
1,3-Dichlorobenzene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	541-73-1
1,4-Dichlorobenzene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	106-46-7
1-Methylnaphthalene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	90-12-0
2,4,5-Trichlorophenol	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	95-95-4
2,4,6-Trichlorophenol	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	88-06-2
2,4-Dichlorophenol	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	120-83-2
2,4-Dimethylphenol	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	105-67-9
2,4-Dinitrophenol	ND	0.808	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	51-28-5
2,4-Dinitrotoluene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	121-14-2
2,6-Dinitrotoluene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	606-20-2
2-Chloronaphthalene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	91-58-7
2-Chlorophenol	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	95-57-8
2-Methylnaphthalene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	91-57-6
2-Methylphenol	ND	0.808	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	95-48-7
2-Nitroaniline	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	88-74-4
2-Nitrophenol	ND	0.808	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	88-75-5
3&4-Methylphenol	ND	1.01	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	91-94-1
3-Nitroaniline	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	534-52-1
4-Bromophenyl-phenylether	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	101-55-3
4-chloro-3-methylphenol	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	59-50-7
4-Nitroaniline	ND	0.808	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	100-01-6
4-Nitrophenol	ND	0.808	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	100-02-7
Acenaphthene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	83-32-9
Acenaphthylene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	XU	62-53-3
Anthracene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	120-12-7
Benzo(a)anthracene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	56-55-3
Benzo(a)pyrene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	50-32-8
Benzo(b)fluoranthene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	205-99-2
Benzo(g,h,i)perylene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	191-24-2
Benzo(k)fluoranthene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	207-08-9

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB10 (12') (Continued)
Lab Sample ID: A6F0016-20 (Solid)

Sampled:
6/2/16 10:45

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Benzoic Acid	ND	0.808	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	65-85-0
Benzyl Alcohol	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	100-51-6
Butyl Benzyl Phthalate	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	111-91-1
bis(2-chloroethyl) ether	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	XU	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	117-81-7
Chrysene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	53-70-3
Dibenzofuran	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	132-64-9
Diethyl Phthalate	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	84-66-2
Dimethyl Phthalate	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	131-11-3
di-n-Butyl Phthalate	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	84-74-2
di-n-Octyl Phthalate	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	117-84-0
Fluoranthene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	206-44-0
Fluorene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	86-73-7
Hexachlorobenzene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	118-74-1
Hexachlorobutadiene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	87-68-3
Hexachlorocyclopentadiene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	77-47-4
Hexachloroethane	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	193-39-5
Isophorone	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	78-59-1
Naphthalene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	91-20-3
Nitrobenzene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	98-95-3
N-Nitrosodimethylamine	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	621-64-7
N-Nitrosodiphenylamine	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	86-30-6
Pentachlorophenol	ND	0.808	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	87-86-5
Phenanthrene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	85-01-8
Phenol	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	XU	108-95-2
Pyrene	ND	0.404	mg/Kg dry	1	6/8/16 15:00	6/9/16 20:02	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*81%*	*19-122*			6/9/16 20:02		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*72%*	*30-115*			6/9/16 20:02		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*64%*	*25-121*			6/9/16 20:02		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*64%*	*23-120*			6/9/16 20:02		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*73%*	*15-110*			6/9/16 20:02		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*85%*	*18-137*			6/9/16 20:02		1718-51-0
VOCs by Method 8260B								

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB10 (12') (Continued)
Lab Sample ID: A6F0016-20 (Solid)

Sampled:
6/2/16 10:45

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
1,1,1,2-Tetrachloroethane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	630-20-6
1,1,1-Trichloroethane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	76-13-1
1,1,2-Trichloroethane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	79-00-5
1,1-Dichloroethane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	75-34-3
1,1-Dichloroethene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	75-35-4
1,1-Dichloropropene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	87-61-6
1,2,3-Trichloropropane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	106-93-4
1,2-Dichlorobenzene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	95-50-1
1,2-Dichloroethane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	107-06-2
1,2-Dichloropropane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	108-67-8
1,3-Dichlorobenzene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	541-73-1
1,3-Dichloropropane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	142-28-9
1,4-Dichlorobenzene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	106-46-7
2,2-Dichloropropane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0122	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U, L	110-75-8
2-Chlorotoluene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	95-49-8
2-Hexanone	ND	0.0608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	XU, X	591-78-6
3,3-Dimethyl-1-butanol	ND	0.0608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	XU, X	624-95-3
4-Chlorotoluene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.0608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	XU, X	108-10-1
Acetone	ND	0.0608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	XU, X	67-64-1
Acrolein	ND	0.0122	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	107-02-8
Acrylonitrile	ND	0.0122	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	107-13-1
Benzene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	71-43-2
Bromobenzene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	108-86-1
Bromochloromethane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	74-97-5
Bromodichloromethane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	75-27-4
Bromoform	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	74-83-9
Carbon disulfide	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	75-15-0
Carbon tetrachloride	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	56-23-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB10 (12') (Continued)
Lab Sample ID: A6F0016-20 (Solid)

Sampled:
6/2/16 10:45

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Chlorobenzene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	108-90-7
Chloroethane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	75-00-3
Chloroform	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	74-87-3
cis-1,2-Dichloroethene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	156-59-4
cis-1,3-Dichloropropene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	10061-01-5
Cyclohexane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	110-82-7
Dibromochloromethane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	124-48-1
Dibromomethane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	74-95-3
Dichlorodifluoromethane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	60-29-7
Ethyl methacrylate	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	XU, X	97-63-2
Ethylbenzene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	100-41-4
Hexachlorobutadiene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	87-68-3
Isopropylbenzene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	98-82-8
m,p-Xylenes	ND	0.0122	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	179601-23-1
2-Butanone (MEK)	**0.0217**	0.0122	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42		78-93-3
Methyl acetate	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0122	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	1634-04-4
Methylcyclohexane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	108-87-2
Methylene Chloride	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	75-09-2
Naphthalene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	XU, X	91-20-3
n-Butylbenzene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	104-51-8
n-Propylbenzene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	103-65-1
o-Xylene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	99-87-6
sec-Butylbenzene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	135-98-8
Styrene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	100-42-5
tert-Butylbenzene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	98-06-6
Tetrachloroethylene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	127-18-4
Tetrahydrofuran	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	109-99-9
Toluene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	108-88-3
Total Xylenes	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	156-60-5
trans-1,3-Dichloropropene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	1006-10-26
Trichloroethylene	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	79-01-6
Trichlorofluoromethane	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U, L	75-69-4
Vinyl acetate	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	108-05-4
Vinyl chloride	ND	0.00608	mg/Kg dry	1	6/7/16 9:29	6/7/16 16:42	U	75-01-4

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB10 (12') (Continued)
Lab Sample ID: A6F0016-20 (Solid)

Sampled:
6/2/16 10:45

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*110%*	*50-150*			6/7/16 16:42		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*105%*	*57-158*			6/7/16 16:42		460-00-4
Surrogate: Toluene-D8 (SUR)		*101%*	*50-150*			6/7/16 16:42		2037-26-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB15 (8')
Lab Sample ID: A6F0016-21 (Solid)

Sampled:
6/1/16 11:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Percent Moisture by Method 2540G								
% Solids	**77.5**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
Percent Moisture	**22.5**	0.100	%	1	6/7/16 8:45	6/8/16 7:30		
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	120-82-1
1,2-Dichlorobenzene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	95-50-1
1,3-Dichlorobenzene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	541-73-1
1,4-Dichlorobenzene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	106-46-7
1-Methylnaphthalene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	90-12-0
2,4,5-Trichlorophenol	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	95-95-4
2,4,6-Trichlorophenol	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	88-06-2
2,4-Dichlorophenol	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	120-83-2
2,4-Dimethylphenol	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	105-67-9
2,4-Dinitrophenol	ND	0.856	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	51-28-5
2,4-Dinitrotoluene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	121-14-2
2,6-Dinitrotoluene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	606-20-2
2-Chloronaphthalene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	91-58-7
2-Chlorophenol	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	95-57-8
2-Methylnaphthalene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	91-57-6
2-Methylphenol	ND	0.856	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	95-48-7
2-Nitroaniline	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	88-74-4
2-Nitrophenol	ND	0.856	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	88-75-5
3&4-Methylphenol	ND	1.07	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	91-94-1
3-Nitroaniline	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	99-09-2
4,6-dinitro-2-methyl phenol	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	534-52-1
4-Bromophenyl-phenylether	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	101-55-3
4-chloro-3-methylphenol	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	59-50-7
4-Nitroaniline	ND	0.856	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	100-01-6
4-Nitrophenol	ND	0.856	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	100-02-7
Acenaphthene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	83-32-9
Acenaphthylene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	XU	62-53-3
Anthracene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	120-12-7
Benzo(a)anthracene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	56-55-3
Benzo(a)pyrene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	50-32-8
Benzo(b)fluoranthene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	205-99-2
Benzo(g,h,i)perylene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	191-24-2
Benzo(k)fluoranthene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	207-08-9

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB15 (8') (Continued)
Lab Sample ID: A6F0016-21 (Solid)

Sampled:
6/1/16 11:00

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Benzoic Acid	ND	0.856	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	65-85-0
Benzyl Alcohol	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	100-51-6
Butyl Benzyl Phthalate	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	85-68-7
bis(2-chloroethoxy) methane	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	111-91-1
bis(2-chloroethyl) ether	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	111-44-4
bis(2-chloroisopropyl) ether	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	117-81-7
Chrysene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	218-01-9
Dibenz(a,h)Anthracene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	53-70-3
Dibenzofuran	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	132-64-9
Diethyl Phthalate	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	84-66-2
Dimethyl Phthalate	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	131-11-3
di-n-Butyl Phthalate	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	84-74-2
di-n-Octyl Phthalate	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	117-84-0
Fluoranthene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	206-44-0
Fluorene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	86-73-7
Hexachlorobenzene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	118-74-1
Hexachlorobutadiene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	87-68-3
Hexachlorocyclopentadiene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	77-47-4
Hexachloroethane	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	193-39-5
Isophorone	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	78-59-1
Naphthalene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	91-20-3
Nitrobenzene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	98-95-3
N-Nitrosodimethylamine	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	621-64-7
N-Nitrosodiphenylamine	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	86-30-6
Pentachlorophenol	ND	0.856	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	87-86-5
Phenanthrene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	85-01-8
Phenol	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	108-95-2
Pyrene	ND	0.428	mg/Kg dry	1	6/9/16 11:30	6/10/16 3:19	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*75%*	*19-122*			6/10/16 3:19		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*66%*	*30-115*			6/10/16 3:19		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*70%*	*25-121*			6/10/16 3:19		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*57%*	*23-120*			6/10/16 3:19		4165-60-0
Surrogate: Phenol-d5 (A-SURR)		*82%*	*15-110*			6/10/16 3:19		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*89%*	*18-137*			6/10/16 3:19		1718-51-0

VOCs by Method 8260B

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No duplication of this report is allowed, except in its entirety.

Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB15 (8') (Continued)
Lab Sample ID: A6F0016-21 (Solid)

Sampled:
6/1/16 11:00

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
1,1,1,2-Tetrachloroethane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	630-20-6
1,1,1-Trichloroethane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	79-34-5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	76-13-1
1,1,2-Trichloroethane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	79-00-5
1,1-Dichloroethane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	75-34-3
1,1-Dichloroethene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	75-35-4
1,1-Dichloropropene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	563-58-6
1,2,3-Trichlorobenzene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	87-61-6
1,2,3-Trichloropropane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	96-18-4
1,2,4-Trichlorobenzene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	120-82-1
1,2,4-Trimethylbenzene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	96-12-8
1,2-Dibromoethane (EDB)	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	106-93-4
1,2-Dichlorobenzene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	95-50-1
1,2-Dichloroethane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	107-06-2
1,2-Dichloropropane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	78-87-5
1,3,5-Trimethylbenzene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	108-67-8
1,3-Dichlorobenzene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	541-73-1
1,3-Dichloropropane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	142-28-9
1,4-Dichlorobenzene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	106-46-7
2,2-Dichloropropane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	590-20-7
2-Chloroethyl vinyl ether	ND	0.0129	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U, L	110-75-8
2-Chlorotoluene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	95-49-8
2-Hexanone	ND	0.0645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	591-78-6
3,3-Dimethyl-1-butanol	ND	0.0645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	624-95-3
4-Chlorotoluene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	0.0645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	108-10-1
Acetone	**0.0670**	0.0645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06		67-64-1
Acrolein	ND	0.0129	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	107-02-8
Acrylonitrile	ND	0.0129	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	107-13-1
Benzene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	71-43-2
Bromobenzene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	108-86-1
Bromochloromethane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	74-97-5
Bromodichloromethane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	75-27-4
Bromoform	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	75-25-2
Bromomethane (Methyl Bromide)	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	74-83-9
Carbon disulfide	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	75-15-0
Carbon tetrachloride	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	56-23-5

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB15 (8') (Continued)
Lab Sample ID: A6F0016-21 (Solid)

Sampled:
6/1/16 11:00

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Chlorobenzene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	108-90-7
Chloroethane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	75-00-3
Chloroform	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	67-66-3
Chloromethane (Methyl Chloride)	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	74-87-3
cis-1,2-Dichloroethene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	156-59-4
cis-1,3-Dichloropropene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	10061-01-5
Cyclohexane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	110-82-7
Dibromochloromethane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	124-48-1
Dibromomethane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	74-95-3
Dichlorodifluoromethane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	75-71-8
Diethyl Ether (Ethyl Ether)	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	60-29-7
Ethyl methacrylate	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	97-63-2
Ethylbenzene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	100-41-4
Hexachlorobutadiene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	87-68-3
Isopropylbenzene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	98-82-8
m,p-Xylenes	ND	0.0129	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	179601-23-1
2-Butanone (MEK)	**0.0302**	0.0129	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06		78-93-3
Methyl acetate	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	0.0129	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	1634-04-4
Methylcyclohexane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	108-87-2
Methylene Chloride	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	75-09-2
Naphthalene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	91-20-3
n-Butylbenzene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	104-51-8
n-Propylbenzene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	103-65-1
o-Xylene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	99-87-6
sec-Butylbenzene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	135-98-8
Styrene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	100-42-5
tert-Butylbenzene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	98-06-6
Tetrachloroethylene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	127-18-4
Tetrahydrofuran	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	109-99-9
Toluene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	108-88-3
Total Xylenes	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	1330-20-7
trans-1,2-Dichloroethene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	156-60-5
trans-1,3-Dichloropropene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	1006-10-26
Trichloroethylene	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	79-01-6
Trichlorofluoromethane	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U, L	75-69-4
Vinyl acetate	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	108-05-4
Vinyl chloride	ND	0.00645	mg/Kg dry	1	6/7/16 9:29	6/7/16 17:06	U	75-01-4

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Sample Results
(Continued)

Client Sample ID: SB15 (8') (Continued)
Lab Sample ID: A6F0016-21 (Solid)

Sampled:
6/1/16 11:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*108%*	*50-150*			6/7/16 17:06		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*106%*	*57-158*			6/7/16 17:06		460-00-4
Surrogate: Toluene-D8 (SUR)		*101%*	*50-150*			6/7/16 17:06		2037-26-5

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control

VOCs by Method 8260B

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0180										
Blank (B6F0180-BLK1)					Prepared & Analyzed: 6/6/2016					
1,1,1,2-Tetrachloroethane	ND	U	0.00500	mg/Kg wet						
1,1,1-Trichloroethane	ND	U	0.00500	mg/Kg wet						
1,1,2,2-Tetrachloroethane	ND	U	0.00500	mg/Kg wet						
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	U	0.00500	mg/Kg wet						
1,1,2-Trichloroethane	ND	U	0.00500	mg/Kg wet						
1,1-Dichloroethane	ND	U	0.00500	mg/Kg wet						
1,1-Dichloroethene	ND	U	0.00500	mg/Kg wet						
1,1-Dichloropropene	ND	U	0.00500	mg/Kg wet						
1,2,3-Trichlorobenzene	ND	U	0.00500	mg/Kg wet						
1,2,3-Trichloropropane	ND	U	0.00500	mg/Kg wet						
1,2,4-Trichlorobenzene	ND	U	0.00500	mg/Kg wet						
1,2,4-Trimethylbenzene	ND	U	0.00500	mg/Kg wet						
1,2-Dibromo-3-Chloropropane (DBCP)	ND	U	0.00500	mg/Kg wet						
1,2-Dibromoethane (EDB)	ND	U	0.00500	mg/Kg wet						
1,2-Dichlorobenzene	ND	U	0.00500	mg/Kg wet						
1,2-Dichloroethane	ND	U	0.00500	mg/Kg wet						
1,2-Dichloropropane	ND	U	0.00500	mg/Kg wet						
1,3,5-Trimethylbenzene	ND	U	0.00500	mg/Kg wet						
1,3-Dichlorobenzene	ND	U	0.00500	mg/Kg wet						
1,3-Dichloropropane	ND	U	0.00500	mg/Kg wet						
1,4-Dichlorobenzene	ND	U	0.00500	mg/Kg wet						
2,2-Dichloropropane	ND	U	0.00500	mg/Kg wet						
2-Chloroethyl vinyl ether	ND	U	0.0100	mg/Kg wet						
2-Chlorotoluene	ND	U	0.00500	mg/Kg wet						
2-Hexanone	ND	U	0.0500	mg/Kg wet						
3,3-Dimethyl-1-butanol	ND	U	0.0500	mg/Kg wet						
4-Chlorotoluene	ND	U	0.00500	mg/Kg wet						
4-Methyl-2-pentanone (MIBK)	ND	U	0.0500	mg/Kg wet						
Acetone	ND	U	0.0500	mg/Kg wet						
Acrolein	ND	U	0.0100	mg/Kg wet						
Acrylonitrile	ND	U	0.0100	mg/Kg wet						
Benzene	ND	U	0.00500	mg/Kg wet						
Bromobenzene	ND	U	0.00500	mg/Kg wet						
Bromochloromethane	ND	U	0.00500	mg/Kg wet						
Bromodichloromethane	ND	U	0.00500	mg/Kg wet						
Bromoform	ND	U	0.00500	mg/Kg wet						
Bromomethane (Methyl Bromide)	ND	U	0.00500	mg/Kg wet						
Carbon disulfide	ND	U	0.00500	mg/Kg wet						
Carbon tetrachloride	ND	U	0.00500	mg/Kg wet						
Chlorobenzene	ND	U	0.00500	mg/Kg wet						
Chloroethane	ND	U	0.00500	mg/Kg wet						

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0180 (Continued)										
Blank (B6F0180-BLK1)					Prepared & Analyzed: 6/6/2016					
Chloroform	ND	U	0.00500	mg/Kg wet						
Chloromethane (Methyl Chloride)	ND	U	0.00500	mg/Kg wet						
cis-1,2-Dichloroethene	ND	U	0.00500	mg/Kg wet						
cis-1,3-Dichloropropene	ND	U	0.00500	mg/Kg wet						
Cyclohexane	ND	U	0.00500	mg/Kg wet						
Dibromochloromethane	ND	U	0.00500	mg/Kg wet						
Dibromomethane	ND	U	0.00500	mg/Kg wet						
Dichlorodifluoromethane	ND	U	0.00500	mg/Kg wet						
Diethyl Ether (Ethyl Ether)	ND	U	0.00500	mg/Kg wet						
Ethyl methacrylate	ND	U	0.00500	mg/Kg wet						
Ethylbenzene	ND	U	0.00500	mg/Kg wet						
Hexachlorobutadiene	ND	U	0.00500	mg/Kg wet						
Isopropylbenzene	ND	U	0.00500	mg/Kg wet						
m,p-Xylenes	ND	U	0.0100	mg/Kg wet						
2-Butanone (MEK)	ND	U	0.0100	mg/Kg wet						
Methyl acetate	ND	U	0.00500	mg/Kg wet						
Methyl tert-butyl ether (MTBE)	ND	U	0.0100	mg/Kg wet						
Methylcyclohexane	ND	U	0.00500	mg/Kg wet						
Methylene Chloride	ND	U	0.00500	mg/Kg wet						
Naphthalene	ND	U	0.00500	mg/Kg wet						
n-Butylbenzene	ND	U	0.00500	mg/Kg wet						
n-Propylbenzene	ND	U	0.00500	mg/Kg wet						
o-Xylene	ND	U	0.00500	mg/Kg wet						
4-Isopropyltoluene (p-Cymene)	ND	U	0.00500	mg/Kg wet						
sec-Butylbenzene	ND	U	0.00500	mg/Kg wet						
Styrene	ND	U	0.00500	mg/Kg wet						
tert-Butylbenzene	ND	U	0.00500	mg/Kg wet						
Tetrachloroethylene	ND	U	0.00500	mg/Kg wet						
Tetrahydrofuran	ND	U	0.00500	mg/Kg wet						
Toluene	ND	U	0.00500	mg/Kg wet						
Total Xylenes	ND	U	0.00500	mg/Kg wet						
trans-1,2-Dichloroethene	ND	U	0.00500	mg/Kg wet						
trans-1,3-Dichloropropene	ND	U	0.00500	mg/Kg wet						
Trichloroethylene	ND	U	0.00500	mg/Kg wet						
Trichlorofluoromethane	ND	U	0.00500	mg/Kg wet						
Vinyl acetate	ND	U	0.00500	mg/Kg wet						
Vinyl chloride	ND	U	0.00500	mg/Kg wet						
Surrogate: 1,2-Dichloroethane-D4 (SUR)			*0.0507*	*mg/L*	*0.0500*		*101*	*50-150*		
Surrogate: 4-Bromofluorobenzene (SUR)			*0.0538*	*mg/L*	*0.0500*		*108*	*57-158*		
Surrogate: Toluene-D8 (SUR)			*0.0479*	*mg/L*	*0.0500*		*96*	*50-150*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0180 (Continued)										
LCS (B6F0180-BS1)					Prepared & Analyzed: 6/6/2016					
1,1,1,2-Tetrachloroethane	0.0528		0.00500	mg/Kg wet	0.0500		106	83-126		
1,1,1-Trichloroethane	0.0563		0.00500	mg/Kg wet	0.0500		113	75-145		
1,1,2,2-Tetrachloroethane	0.0572		0.00500	mg/Kg wet	0.0500		114	78-120		
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.0590		0.00500	mg/Kg wet	0.0500		118	54-173		
1,1,2-Trichloroethane	0.0528		0.00500	mg/Kg wet	0.0500		106	81-115		
1,1-Dichloroethane	0.0547		0.00500	mg/Kg wet	0.0500		109	73-131		
1,1-Dichloroethene	0.0572		0.00500	mg/Kg wet	0.0500		114	67-144		
1,1-Dichloropropene	0.0528		0.00500	mg/Kg wet	0.0500		106	83-141		
1,2,3-Trichlorobenzene	0.0330		0.00500	mg/Kg wet	0.0500		66	59-168		
1,2,3-Trichloropropane	0.0563		0.00500	mg/Kg wet	0.0500		113	73-129		
1,2,4-Trichlorobenzene	0.0397		0.00500	mg/Kg wet	0.0500		79	61-170		
1,2,4-Trimethylbenzene	0.0514		0.00500	mg/Kg wet	0.0500		103	73-145		
1,2-Dibromo-3-Chloropropane (DBCP)	0.0516		0.00500	mg/Kg wet	0.0500		103	62-146		
1,2-Dibromoethane (EDB)	0.0549		0.00500	mg/Kg wet	0.0500		110	81-121		
1,2-Dichlorobenzene	0.0494		0.00500	mg/Kg wet	0.0500		99	70-146		
1,2-Dichloroethane	0.0517		0.00500	mg/Kg wet	0.0500		103	63-150		
1,2-Dichloropropane	0.0505		0.00500	mg/Kg wet	0.0500		101	76-121		
1,3,5-Trimethylbenzene	0.0507		0.00500	mg/Kg wet	0.0500		101	69-152		
1,3-Dichlorobenzene	0.0502		0.00500	mg/Kg wet	0.0500		100	73-145		
1,3-Dichloropropane	0.0516		0.00500	mg/Kg wet	0.0500		103	82-117		
1,4-Dichlorobenzene	0.0518		0.00500	mg/Kg wet	0.0500		104	74-143		
2,2-Dichloropropane	0.0596		0.00500	mg/Kg wet	0.0500		119	67-153		
2-Chloroethyl vinyl ether	0.0232	X	0.0100	mg/Kg wet	0.100		23	57-142		
2-Chlorotoluene	0.0511		0.00500	mg/Kg wet	0.0500		102	74-143		
2-Hexanone	0.117		0.0500	mg/Kg wet	0.100		117	59-154		
3,3-Dimethyl-1-butanol	0.576		0.0500	mg/Kg wet	0.500		115	50-150		
4-Chlorotoluene	0.0525		0.00500	mg/Kg wet	0.0500		105	76-140		
4-Methyl-2-pentanone (MIBK)	0.109		0.0500	mg/Kg wet	0.100		109	65-132		
Acetone	0.105		0.0500	mg/Kg wet	0.100		105	43-163		
Acrolein	0.139		0.0100	mg/Kg wet	0.100		139	41-157		
Acrylonitrile	0.104		0.0100	mg/Kg wet	0.100		104	64-156		
Benzene	0.0504		0.00500	mg/Kg wet	0.0500		101	82-121		
Bromobenzene	0.0504		0.00500	mg/Kg wet	0.0500		101	83-120		
Bromochloromethane	0.0553		0.00500	mg/Kg wet	0.0500		111	79-126		
Bromodichloromethane	0.0519		0.00500	mg/Kg wet	0.0500		104	80-135		
Bromoform	0.0575		0.00500	mg/Kg wet	0.0500		115	71-135		
Bromomethane (Methyl Bromide)	0.0608		0.00500	mg/Kg wet	0.0500		122	51-149		
Carbon disulfide	0.0633		0.00500	mg/Kg wet	0.0500		127	57-151		
Carbon tetrachloride	0.0559		0.00500	mg/Kg wet	0.0500		112	70-156		
Chlorobenzene	0.0511		0.00500	mg/Kg wet	0.0500		102	76-131		
Chloroethane	0.0573		0.00500	mg/Kg wet	0.0500		115	64-131		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0180 (Continued)										
LCS (B6F0180-BS1)					Prepared & Analyzed: 6/6/2016					
Chloroform	0.0496		0.00500	mg/Kg wet	0.0500		99	78-125		
Chloromethane (Methyl Chloride)	0.0592		0.00500	mg/Kg wet	0.0500		118	0-200		
cis-1,2-Dichloroethene	0.0553		0.00500	mg/Kg wet	0.0500		111	80-123		
cis-1,3-Dichloropropene	0.0535		0.00500	mg/Kg wet	0.0500		107	81-123		
Cyclohexane	0.0528		0.00500	mg/Kg wet	0.0500		106	58-164		
Dibromochloromethane	0.0537		0.00500	mg/Kg wet	0.0500		107	81-136		
Dibromomethane	0.0527		0.00500	mg/Kg wet	0.0500		105	79-128		
Dichlorodifluoromethane	0.0764		0.00500	mg/Kg wet	0.0500		153	33-161		
Diethyl Ether (Ethyl Ether)	0.0558		0.00500	mg/Kg wet	0.0500		112	50-145		
Ethyl methacrylate	0.0515		0.00500	mg/Kg wet	0.0500		103	72-126		
Ethylbenzene	0.0511		0.00500	mg/Kg wet	0.0500		102	84-129		
Hexachlorobutadiene	0.0376		0.00500	mg/Kg wet	0.0500		75	33-221		
Isopropylbenzene	0.0513		0.00500	mg/Kg wet	0.0500		103	65-153		
m,p-Xylenes	0.104		0.0100	mg/Kg wet	0.100		104	75-141		
2-Butanone (MEK)	0.110		0.0100	mg/Kg wet	0.100		110	44-158		
Methyl acetate	0.0515		0.00500	mg/Kg wet	0.0500		103	45-155		
Methyl tert-butyl ether (MTBE)	0.117		0.0100	mg/Kg wet	0.100		117	70-131		
Methylcyclohexane	0.0526		0.00500	mg/Kg wet	0.0500		105	39-185		
Methylene Chloride	0.0556		0.00500	mg/Kg wet	0.0500		111	65-137		
Naphthalene	0.0443		0.00500	mg/Kg wet	0.0500		89	68-151		
n-Butylbenzene	0.0486		0.00500	mg/Kg wet	0.0500		97	43-199		
n-Propylbenzene	0.0518		0.00500	mg/Kg wet	0.0500		104	60-161		
o-Xylene	0.0512		0.00500	mg/Kg wet	0.0500		102	73-141		
4-Isopropyltoluene (p-Cymene)	0.0497		0.00500	mg/Kg wet	0.0500		99	59-127		
sec-Butylbenzene	0.0494		0.00500	mg/Kg wet	0.0500		99	44-179		
Styrene	0.0534		0.00500	mg/Kg wet	0.0500		107	82-129		
tert-Butylbenzene	0.0486		0.00500	mg/Kg wet	0.0500		97	56-163		
Tetrachloroethylene	0.0485		0.00500	mg/Kg wet	0.0500		97	64-148		
Tetrahydrofuran	0.0536		0.00500	mg/Kg wet	0.0500		107	51-157		
Toluene	0.0507		0.00500	mg/Kg wet	0.0500		101	83-115		
trans-1,2-Dichloroethene	0.0559		0.00500	mg/Kg wet	0.0500		112	72-132		
trans-1,3-Dichloropropene	0.0508		0.00500	mg/Kg wet	0.0500		102	82-132		
Trichloroethylene	0.0529		0.00500	mg/Kg wet	0.0500		106	80-126		
Trichlorofluoromethane	0.0304		0.00500	mg/Kg wet	0.0500		61	55-155		
Vinyl acetate	0.0632		0.00500	mg/Kg wet	0.0500		126	57-146		
Vinyl chloride	0.0604		0.00500	mg/Kg wet	0.0500		121	70-130		
Surrogate: 1,2-Dichloroethane-D4 (SUR)			*0.0478*	*mg/L*	*0.0500*		*96*	*50-150*		
Surrogate: 4-Bromofluorobenzene (SUR)			*0.0493*	*mg/L*	*0.0500*		*99*	*57-158*		
Surrogate: Toluene-D8 (SUR)			*0.0477*	*mg/L*	*0.0500*		*95*	*50-150*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0180 (Continued)										
LCS Dup (B6F0180-BSD1)					Prepared & Analyzed: 6/6/2016					
1,1,1,2-Tetrachloroethane	0.0527		0.00500	mg/Kg wet	0.0500		105	83-126	0.2	20
1,1,1-Trichloroethane	0.0561		0.00500	mg/Kg wet	0.0500		112	75-145	0.4	20
1,1,2,2-Tetrachloroethane	0.0528		0.00500	mg/Kg wet	0.0500		106	78-120	8	20
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.0579		0.00500	mg/Kg wet	0.0500		116	54-173	2	20
1,1,2-Trichloroethane	0.0502		0.00500	mg/Kg wet	0.0500		100	81-115	5	20
1,1-Dichloroethane	0.0529		0.00500	mg/Kg wet	0.0500		106	73-131	3	20
1,1-Dichloroethene	0.0581		0.00500	mg/Kg wet	0.0500		116	67-144	1	20
1,1-Dichloropropene	0.0515		0.00500	mg/Kg wet	0.0500		103	83-141	3	20
1,2,3-Trichlorobenzene	0.0341		0.00500	mg/Kg wet	0.0500		68	59-168	3	20
1,2,3-Trichloropropane	0.0517		0.00500	mg/Kg wet	0.0500		103	73-129	9	20
1,2,4-Trichlorobenzene	0.0413		0.00500	mg/Kg wet	0.0500		83	61-170	4	20
1,2,4-Trimethylbenzene	0.0518		0.00500	mg/Kg wet	0.0500		104	73-145	0.8	20
1,2-Dibromo-3-Chloropropane (DBCP)	0.0475		0.00500	mg/Kg wet	0.0500		95	62-146	8	20
1,2-Dibromoethane (EDB)	0.0532		0.00500	mg/Kg wet	0.0500		106	81-121	3	20
1,2-Dichlorobenzene	0.0499		0.00500	mg/Kg wet	0.0500		100	70-146	1	20
1,2-Dichloroethane	0.0475		0.00500	mg/Kg wet	0.0500		95	63-150	9	20
1,2-Dichloropropane	0.0490		0.00500	mg/Kg wet	0.0500		98	76-121	3	20
1,3,5-Trimethylbenzene	0.0505		0.00500	mg/Kg wet	0.0500		101	69-152	0.5	20
1,3-Dichlorobenzene	0.0512		0.00500	mg/Kg wet	0.0500		102	73-145	2	20
1,3-Dichloropropane	0.0508		0.00500	mg/Kg wet	0.0500		102	82-117	2	20
1,4-Dichlorobenzene	0.0519		0.00500	mg/Kg wet	0.0500		104	74-143	0.3	20
2,2-Dichloropropane	0.0642		0.00500	mg/Kg wet	0.0500		128	67-153	7	20
2-Chloroethyl vinyl ether	0.0210	X	0.0100	mg/Kg wet	0.100		21	57-142	10	20
2-Chlorotoluene	0.0506		0.00500	mg/Kg wet	0.0500		101	74-143	1	20
2-Hexanone	0.103		0.0500	mg/Kg wet	0.100		103	59-154	13	20
3,3-Dimethyl-1-butanol	0.486		0.0500	mg/Kg wet	0.500		97	50-150	17	20
4-Chlorotoluene	0.0525		0.00500	mg/Kg wet	0.0500		105	76-140	0.1	20
4-Methyl-2-pentanone (MIBK)	0.0986		0.0500	mg/Kg wet	0.100		99	65-132	10	20
Acetone	0.0830	X	0.0500	mg/Kg wet	0.100		83	43-163	24	20
Acrolein	0.118		0.0100	mg/Kg wet	0.100		118	41-157	16	20
Acrylonitrile	0.0924		0.0100	mg/Kg wet	0.100		92	64-156	12	20
Benzene	0.0492		0.00500	mg/Kg wet	0.0500		98	82-121	2	20
Bromobenzene	0.0504		0.00500	mg/Kg wet	0.0500		101	83-120	0.02	20
Bromochloromethane	0.0537		0.00500	mg/Kg wet	0.0500		107	79-126	3	20
Bromodichloromethane	0.0492		0.00500	mg/Kg wet	0.0500		98	80-135	5	20
Bromoform	0.0532		0.00500	mg/Kg wet	0.0500		106	71-135	8	20
Bromomethane (Methyl Bromide)	0.0667		0.00500	mg/Kg wet	0.0500		133	51-149	9	20
Carbon disulfide	0.0625		0.00500	mg/Kg wet	0.0500		125	57-151	1	20
Carbon tetrachloride	0.0548		0.00500	mg/Kg wet	0.0500		110	70-156	2	20
Chlorobenzene	0.0516		0.00500	mg/Kg wet	0.0500		103	76-131	0.9	20
Chloroethane	0.0616		0.00500	mg/Kg wet	0.0500		123	64-131	7	20

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0180 (Continued)										
LCS Dup (B6F0180-BSD1)					Prepared & Analyzed: 6/6/2016					
Chloroform	0.0480		0.00500	mg/Kg wet	0.0500		96	78-125	3	20
Chloromethane (Methyl Chloride)	0.0606		0.00500	mg/Kg wet	0.0500		121	0-200	2	20
cis-1,2-Dichloroethene	0.0549		0.00500	mg/Kg wet	0.0500		110	80-123	0.9	20
cis-1,3-Dichloropropene	0.0535		0.00500	mg/Kg wet	0.0500		107	81-123	0.04	20
Cyclohexane	0.0487		0.00500	mg/Kg wet	0.0500		97	58-164	8	20
Dibromochloromethane	0.0515		0.00500	mg/Kg wet	0.0500		103	81-136	4	20
Dibromomethane	0.0521		0.00500	mg/Kg wet	0.0500		104	79-128	1	20
Dichlorodifluoromethane	0.0802		0.00500	mg/Kg wet	0.0500		160	33-161	5	20
Diethyl Ether (Ethyl Ether)	0.0510		0.00500	mg/Kg wet	0.0500		102	50-145	9	20
Ethyl methacrylate	0.0476		0.00500	mg/Kg wet	0.0500		95	72-126	8	20
Ethylbenzene	0.0527		0.00500	mg/Kg wet	0.0500		105	84-129	3	20
Hexachlorobutadiene	0.0394		0.00500	mg/Kg wet	0.0500		79	33-221	5	20
Isopropylbenzene	0.0524		0.00500	mg/Kg wet	0.0500		105	65-153	2	20
m,p-Xylenes	0.105		0.0100	mg/Kg wet	0.100		105	75-141	1	20
2-Butanone (MEK)	0.100		0.0100	mg/Kg wet	0.100		100	44-158	10	20
Methyl acetate	0.0456		0.00500	mg/Kg wet	0.0500		91	45-155	12	20
Methyl tert-butyl ether (MTBE)	0.108		0.0100	mg/Kg wet	0.100		108	70-131	8	20
Methylcyclohexane	0.0507		0.00500	mg/Kg wet	0.0500		101	39-185	4	20
Methylene Chloride	0.0528		0.00500	mg/Kg wet	0.0500		106	65-137	5	20
Naphthalene	0.0429		0.00500	mg/Kg wet	0.0500		86	68-151	3	20
n-Butylbenzene	0.0500		0.00500	mg/Kg wet	0.0500		100	43-199	3	20
n-Propylbenzene	0.0517		0.00500	mg/Kg wet	0.0500		103	60-161	0.06	20
o-Xylene	0.0519		0.00500	mg/Kg wet	0.0500		104	73-141	1	20
4-Isopropyltoluene (p-Cymene)	0.0510		0.00500	mg/Kg wet	0.0500		102	59-127	3	20
sec-Butylbenzene	0.0500		0.00500	mg/Kg wet	0.0500		100	44-179	1	20
Styrene	0.0537		0.00500	mg/Kg wet	0.0500		107	82-129	0.5	20
tert-Butylbenzene	0.0506		0.00500	mg/Kg wet	0.0500		101	56-163	4	20
Tetrachloroethylene	0.0469		0.00500	mg/Kg wet	0.0500		94	64-148	3	20
Tetrahydrofuran	0.0448		0.00500	mg/Kg wet	0.0500		90	51-157	18	20
Toluene	0.0514		0.00500	mg/Kg wet	0.0500		103	83-115	1	20
trans-1,2-Dichloroethene	0.0551		0.00500	mg/Kg wet	0.0500		110	72-132	1	20
trans-1,3-Dichloropropene	0.0487		0.00500	mg/Kg wet	0.0500		97	82-132	4	20
Trichloroethylene	0.0498		0.00500	mg/Kg wet	0.0500		100	80-126	6	20
Trichlorofluoromethane	0.0350		0.00500	mg/Kg wet	0.0500		70	55-155	14	20
Vinyl acetate	0.0585		0.00500	mg/Kg wet	0.0500		117	57-146	8	20
Vinyl chloride	0.0656	X	0.00500	mg/Kg wet	0.0500		131	70-130	8	20
Surrogate: 1,2-Dichloroethane-D4 (SUR)			*0.0461*	*mg/L*	*0.0500*		*92*	*50-150*		
Surrogate: 4-Bromofluorobenzene (SUR)			*0.0499*	*mg/L*	*0.0500*		*100*	*57-158*		
Surrogate: Toluene-D8 (SUR)			*0.0479*	*mg/L*	*0.0500*		*96*	*50-150*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0180 (Continued)										
Matrix Spike (B6F0180-MS1)		**Source: A6F0016-04**			Prepared: 6/6/2016 Analyzed: 6/7/2016					
1,1,1,2-Tetrachloroethane	0.0585		0.00554	mg/Kg dry	0.0554	ND	106	73-124		
1,1,1-Trichloroethane	0.0540		0.00554	mg/Kg dry	0.0554	ND	97	62-137		
1,1,2,2-Tetrachloroethane	0.0694		0.00554	mg/Kg dry	0.0554	ND	125	64-128		
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.0594		0.00554	mg/Kg dry	0.0554	ND	107	54-173		
1,1,2-Trichloroethane	0.0644		0.00554	mg/Kg dry	0.0554	ND	116	61-130		
1,1-Dichloroethane	0.0583		0.00554	mg/Kg dry	0.0554	ND	105	65-136		
1,1-Dichloroethene	0.0584		0.00554	mg/Kg dry	0.0554	ND	105	33-158		
1,1-Dichloropropene	0.0512		0.00554	mg/Kg dry	0.0554	ND	92	42-152		
1,2,3-Trichlorobenzene	0.0360		0.00554	mg/Kg dry	0.0554	ND	65	48-135		
1,2,3-Trichloropropane	0.0686		0.00554	mg/Kg dry	0.0554	ND	124	58-134		
1,2,4-Trichlorobenzene	0.0378		0.00554	mg/Kg dry	0.0554	ND	68	61-170		
1,2,4-Trimethylbenzene	0.0476		0.00554	mg/Kg dry	0.0554	ND	86	66-134		
1,2-Dibromo-3-Chloropropane (DBCP)	0.0708	X	0.00554	mg/Kg dry	0.0554	ND	128	53-121		
1,2-Dibromoethane (EDB)	0.0672		0.00554	mg/Kg dry	0.0554	ND	121	66-125		
1,2-Dichlorobenzene	0.0516		0.00554	mg/Kg dry	0.0554	ND	93	58-124		
1,2-Dichloroethane	0.0602		0.00554	mg/Kg dry	0.0554	ND	109	53-140		
1,2-Dichloropropane	0.0538		0.00554	mg/Kg dry	0.0554	ND	97	68-126		
1,3,5-Trimethylbenzene	0.0456		0.00554	mg/Kg dry	0.0554	ND	82	67-134		
1,3-Dichlorobenzene	0.0488		0.00554	mg/Kg dry	0.0554	ND	88	73-145		
1,3-Dichloropropane	0.0643		0.00554	mg/Kg dry	0.0554	ND	116	70-129		
1,4-Dichlorobenzene	0.0508		0.00554	mg/Kg dry	0.0554	ND	92	64-114		
2,2-Dichloropropane	0.0576		0.00554	mg/Kg dry	0.0554	ND	104	68-151		
2-Chloroethyl vinyl ether	ND	XU	0.0111	mg/Kg dry	0.111	ND		57-142		
2-Chlorotoluene	0.0489		0.00554	mg/Kg dry	0.0554	ND	88	68-127		
2-Hexanone	0.160	X	0.0554	mg/Kg dry	0.111	ND	145	55-136		
3,3-Dimethyl-1-butanol	0.808	X	0.0554	mg/Kg dry	0.554	ND	146	60-135		
4-Chlorotoluene	0.0490		0.00554	mg/Kg dry	0.0554	ND	89	68-127		
4-Methyl-2-pentanone (MIBK)	0.153	X	0.0554	mg/Kg dry	0.111	ND	138	65-132		
Acetone	0.138		0.0554	mg/Kg dry	0.111	0.0542	76	40-140		
Acrolein	0.0475		0.0111	mg/Kg dry	0.111	ND	43	41-157		
Acrylonitrile	0.138		0.0111	mg/Kg dry	0.111	ND	124	37-160		
Benzene	0.0512		0.00554	mg/Kg dry	0.0554	ND	92	65-135		
Bromobenzene	0.0511		0.00554	mg/Kg dry	0.0554	ND	92	67-121		
Bromochloromethane	0.0655		0.00554	mg/Kg dry	0.0554	ND	118	66-137		
Bromodichloromethane	0.0566		0.00554	mg/Kg dry	0.0554	ND	102	60-129		
Bromoform	0.0655		0.00554	mg/Kg dry	0.0554	ND	118	48-147		
Bromomethane (Methyl Bromide)	0.0514		0.00554	mg/Kg dry	0.0554	ND	93	42-170		
Carbon disulfide	0.0474		0.00554	mg/Kg dry	0.0554	ND	86	57-151		
Carbon tetrachloride	0.0534		0.00554	mg/Kg dry	0.0554	ND	96	71-117		
Chlorobenzene	0.0543		0.00554	mg/Kg dry	0.0554	ND	98	71-117		
Chloroethane	0.0473		0.00554	mg/Kg dry	0.0554	ND	85	44-166		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0180 (Continued)										
Matrix Spike (B6F0180-MS1)		**Source: A6F0016-04**			Prepared: 6/6/2016 Analyzed: 6/7/2016					
Chloroform	0.0533		0.00554	mg/Kg dry	0.0554	ND	96	62-127		
Chloromethane (Methyl Chloride)	0.0451		0.00554	mg/Kg dry	0.0554	ND	81	0-200		
cis-1,2-Dichloroethene	0.0597		0.00554	mg/Kg dry	0.0554	ND	108	80-123		
cis-1,3-Dichloropropene	0.0558		0.00554	mg/Kg dry	0.0554	ND	101	63-128		
Cyclohexane	0.0501		0.00554	mg/Kg dry	0.0554	ND	90	58-164		
Dibromochloromethane	0.0641		0.00554	mg/Kg dry	0.0554	ND	116	59-135		
Dibromomethane	0.0635		0.00554	mg/Kg dry	0.0554	ND	115	62-132		
Dichlorodifluoromethane	0.0535		0.00554	mg/Kg dry	0.0554	ND	96	16-171		
Diethyl Ether (Ethyl Ether)	0.0649		0.00554	mg/Kg dry	0.0554	ND	117	50-145		
Ethyl methacrylate	0.0617		0.00554	mg/Kg dry	0.0554	ND	111	72-126		
Ethylbenzene	0.0526		0.00554	mg/Kg dry	0.0554	ND	95	65-139		
Hexachlorobutadiene	0.0386		0.00554	mg/Kg dry	0.0554	ND	70	48-143		
Isopropylbenzene	0.0483		0.00554	mg/Kg dry	0.0554	ND	87	62-133		
m,p-Xylenes	0.105		0.0111	mg/Kg dry	0.111	ND	95	69-130		
2-Butanone (MEK)	0.146		0.0111	mg/Kg dry	0.111	0.0192	114	44-158		
Methyl acetate	0.0337		0.00554	mg/Kg dry	0.0554	ND	61	45-155		
Methyl tert-butyl ether (MTBE)	0.133		0.0111	mg/Kg dry	0.111	ND	120	48-169		
Methylcyclohexane	0.0520		0.00554	mg/Kg dry	0.0554	ND	94	39-185		
Methylene Chloride	0.0640		0.00554	mg/Kg dry	0.0554	ND	116	34-157		
Naphthalene	0.0544		0.00554	mg/Kg dry	0.0554	ND	98	68-151		
n-Butylbenzene	0.0450		0.00554	mg/Kg dry	0.0554	ND	81	59-136		
n-Propylbenzene	0.0482		0.00554	mg/Kg dry	0.0554	ND	87	67-134		
o-Xylene	0.0531		0.00554	mg/Kg dry	0.0554	ND	96	71-124		
4-Isopropyltoluene (p-Cymene)	0.0470		0.00554	mg/Kg dry	0.0554	ND	85	65-131		
sec-Butylbenzene	0.0463		0.00554	mg/Kg dry	0.0554	ND	84	65-131		
Styrene	0.0248	X	0.00554	mg/Kg dry	0.0554	ND	45	50-143		
tert-Butylbenzene	0.0455		0.00554	mg/Kg dry	0.0554	ND	82	56-163		
Tetrachloroethylene	0.0464		0.00554	mg/Kg dry	0.0554	ND	84	42-156		
Tetrahydrofuran	0.0652		0.00554	mg/Kg dry	0.0554	ND	118	51-157		
Toluene	0.0512		0.00554	mg/Kg dry	0.0554	ND	93	13-188		
trans-1,2-Dichloroethene	0.0586		0.00554	mg/Kg dry	0.0554	ND	106	57-143		
trans-1,3-Dichloropropene	0.0560		0.00554	mg/Kg dry	0.0554	ND	101	55-141		
Trichloroethylene	0.0502		0.00554	mg/Kg dry	0.0554	ND	91	39-150		
Trichlorofluoromethane	0.0185	X	0.00554	mg/Kg dry	0.0554	ND	33	34-179		
Vinyl acetate	0.0243	X	0.00554	mg/Kg dry	0.0554	ND	44	57-146		
Vinyl chloride	0.0484		0.00554	mg/Kg dry	0.0554	ND	87	40-161		
Surrogate: 1,2-Dichloroethane-D4 (SUR)			*0.0503*	*mg/L*	*0.0500*		*101*	*50-150*		
Surrogate: 4-Bromofluorobenzene (SUR)			*0.0462*	*mg/L*	*0.0500*		*92*	*57-158*		
Surrogate: Toluene-D8 (SUR)			*0.0481*	*mg/L*	*0.0500*		*96*	*50-150*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0197										
Blank (B6F0197-BLK1)					Prepared & Analyzed: 6/7/2016					
1,1,1,2-Tetrachloroethane	ND	U	0.00500	mg/Kg wet						
1,1,1-Trichloroethane	ND	U	0.00500	mg/Kg wet						
1,1,2,2-Tetrachloroethane	ND	U	0.00500	mg/Kg wet						
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	U	0.00500	mg/Kg wet						
1,1,2-Trichloroethane	ND	U	0.00500	mg/Kg wet						
1,1-Dichloroethane	ND	U	0.00500	mg/Kg wet						
1,1-Dichloroethene	ND	U	0.00500	mg/Kg wet						
1,1-Dichloropropene	ND	U	0.00500	mg/Kg wet						
1,2,3-Trichlorobenzene	ND	U	0.00500	mg/Kg wet						
1,2,3-Trichloropropane	ND	U	0.00500	mg/Kg wet						
1,2,4-Trichlorobenzene	ND	U	0.00500	mg/Kg wet						
1,2,4-Trimethylbenzene	ND	U	0.00500	mg/Kg wet						
1,2-Dibromo-3-Chloropropane (DBCP)	ND	U	0.00500	mg/Kg wet						
1,2-Dibromoethane (EDB)	ND	U	0.00500	mg/Kg wet						
1,2-Dichlorobenzene	ND	U	0.00500	mg/Kg wet						
1,2-Dichloroethane	ND	U	0.00500	mg/Kg wet						
1,2-Dichloropropane	ND	U	0.00500	mg/Kg wet						
1,3,5-Trimethylbenzene	ND	U	0.00500	mg/Kg wet						
1,3-Dichlorobenzene	ND	U	0.00500	mg/Kg wet						
1,3-Dichloropropane	ND	U	0.00500	mg/Kg wet						
1,4-Dichlorobenzene	ND	U	0.00500	mg/Kg wet						
2,2-Dichloropropane	ND	U	0.00500	mg/Kg wet						
2-Chloroethyl vinyl ether	ND	U	0.0100	mg/Kg wet						
2-Chlorotoluene	ND	U	0.00500	mg/Kg wet						
2-Hexanone	ND	U	0.0500	mg/Kg wet						
3,3-Dimethyl-1-butanol	ND	U	0.0500	mg/Kg wet						
4-Chlorotoluene	ND	U	0.00500	mg/Kg wet						
4-Methyl-2-pentanone (MIBK)	ND	U	0.0500	mg/Kg wet						
Acetone	ND	U	0.0500	mg/Kg wet						
Acrolein	ND	U	0.0100	mg/Kg wet						
Acrylonitrile	ND	U	0.0100	mg/Kg wet						
Benzene	ND	U	0.00500	mg/Kg wet						
Bromobenzene	ND	U	0.00500	mg/Kg wet						
Bromochloromethane	ND	U	0.00500	mg/Kg wet						
Bromodichloromethane	ND	U	0.00500	mg/Kg wet						
Bromoform	ND	U	0.00500	mg/Kg wet						
Bromomethane (Methyl Bromide)	ND	U	0.00500	mg/Kg wet						
Carbon disulfide	ND	U	0.00500	mg/Kg wet						
Carbon tetrachloride	ND	U	0.00500	mg/Kg wet						
Chlorobenzene	ND	U	0.00500	mg/Kg wet						
Chloroethane	ND	U	0.00500	mg/Kg wet						

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0197 (Continued)										
Blank (B6F0197-BLK1)					Prepared & Analyzed: 6/7/2016					
Chloroform	ND	U	0.00500	mg/Kg wet						
Chloromethane (Methyl Chloride)	ND	U	0.00500	mg/Kg wet						
cis-1,2-Dichloroethene	ND	U	0.00500	mg/Kg wet						
cis-1,3-Dichloropropene	ND	U	0.00500	mg/Kg wet						
Cyclohexane	ND	U	0.00500	mg/Kg wet						
Dibromochloromethane	ND	U	0.00500	mg/Kg wet						
Dibromomethane	ND	U	0.00500	mg/Kg wet						
Dichlorodifluoromethane	ND	U	0.00500	mg/Kg wet						
Diethyl Ether (Ethyl Ether)	ND	U	0.00500	mg/Kg wet						
Ethyl methacrylate	ND	U	0.00500	mg/Kg wet						
Ethylbenzene	ND	U	0.00500	mg/Kg wet						
Hexachlorobutadiene	ND	U	0.00500	mg/Kg wet						
Isopropylbenzene	ND	U	0.00500	mg/Kg wet						
m,p-Xylenes	ND	U	0.0100	mg/Kg wet						
2-Butanone (MEK)	ND	U	0.0100	mg/Kg wet						
Methyl acetate	ND	U	0.00500	mg/Kg wet						
Methyl tert-butyl ether (MTBE)	ND	U	0.0100	mg/Kg wet						
Methylcyclohexane	ND	U	0.00500	mg/Kg wet						
Methylene Chloride	ND	U	0.00500	mg/Kg wet						
Naphthalene	ND	U	0.00500	mg/Kg wet						
n-Butylbenzene	ND	U	0.00500	mg/Kg wet						
n-Propylbenzene	ND	U	0.00500	mg/Kg wet						
o-Xylene	ND	U	0.00500	mg/Kg wet						
4-Isopropyltoluene (p-Cymene)	ND	U	0.00500	mg/Kg wet						
sec-Butylbenzene	ND	U	0.00500	mg/Kg wet						
Styrene	ND	U	0.00500	mg/Kg wet						
tert-Butylbenzene	ND	U	0.00500	mg/Kg wet						
Tetrachloroethylene	ND	U	0.00500	mg/Kg wet						
Tetrahydrofuran	ND	U	0.00500	mg/Kg wet						
Toluene	ND	U	0.00500	mg/Kg wet						
Total Xylenes	ND	U	0.00500	mg/Kg wet						
trans-1,2-Dichloroethene	ND	U	0.00500	mg/Kg wet						
trans-1,3-Dichloropropene	ND	U	0.00500	mg/Kg wet						
Trichloroethylene	ND	U	0.00500	mg/Kg wet						
Trichlorofluoromethane	ND	U	0.00500	mg/Kg wet						
Vinyl acetate	ND	U	0.00500	mg/Kg wet						
Vinyl chloride	ND	U	0.00500	mg/Kg wet						
Surrogate: 1,2-Dichloroethane-D4 (SUR)			*0.0514*	*mg/Kg wet*	*0.0500*		*103*	*50-150*		
Surrogate: 4-Bromofluorobenzene (SUR)			*0.0543*	*mg/Kg wet*	*0.0500*		*109*	*57-158*		
Surrogate: Toluene-D8 (SUR)			*0.0473*	*mg/Kg wet*	*0.0500*		*95*	*50-150*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0197 (Continued)										
LCS (B6F0197-BS1)					Prepared & Analyzed: 6/7/2016					
1,1,1,2-Tetrachloroethane	0.0544		0.00500	mg/Kg wet	0.0500		109	83-126		
1,1,1-Trichloroethane	0.0572		0.00500	mg/Kg wet	0.0500		114	75-145		
1,1,2,2-Tetrachloroethane	0.0525		0.00500	mg/Kg wet	0.0500		105	78-120		
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.0634		0.00500	mg/Kg wet	0.0500		127	54-173		
1,1,2-Trichloroethane	0.0552		0.00500	mg/Kg wet	0.0500		110	81-115		
1,1-Dichloroethane	0.0590		0.00500	mg/Kg wet	0.0500		118	73-131		
1,1-Dichloroethene	0.0612		0.00500	mg/Kg wet	0.0500		122	67-144		
1,1-Dichloropropene	0.0538		0.00500	mg/Kg wet	0.0500		108	83-141		
1,2,3-Trichlorobenzene	0.0339		0.00500	mg/Kg wet	0.0500		68	59-168		
1,2,3-Trichloropropane	0.0535		0.00500	mg/Kg wet	0.0500		107	73-129		
1,2,4-Trichlorobenzene	0.0412		0.00500	mg/Kg wet	0.0500		82	61-170		
1,2,4-Trimethylbenzene	0.0532		0.00500	mg/Kg wet	0.0500		106	73-145		
1,2-Dibromo-3-Chloropropane (DBCP)	0.0463		0.00500	mg/Kg wet	0.0500		93	62-146		
1,2-Dibromoethane (EDB)	0.0545		0.00500	mg/Kg wet	0.0500		109	81-121		
1,2-Dichlorobenzene	0.0516		0.00500	mg/Kg wet	0.0500		103	70-146		
1,2-Dichloroethane	0.0516		0.00500	mg/Kg wet	0.0500		103	63-150		
1,2-Dichloropropane	0.0521		0.00500	mg/Kg wet	0.0500		104	76-121		
1,3,5-Trimethylbenzene	0.0518		0.00500	mg/Kg wet	0.0500		104	69-152		
1,3-Dichlorobenzene	0.0527		0.00500	mg/Kg wet	0.0500		105	73-145		
1,3-Dichloropropane	0.0516		0.00500	mg/Kg wet	0.0500		103	82-117		
1,4-Dichlorobenzene	0.0536		0.00500	mg/Kg wet	0.0500		107	74-143		
2,2-Dichloropropane	0.0624		0.00500	mg/Kg wet	0.0500		125	67-153		
2-Chloroethyl vinyl ether	0.0159	X	0.0100	mg/Kg wet	0.100		16	57-142		
2-Chlorotoluene	0.0521		0.00500	mg/Kg wet	0.0500		104	74-143		
2-Hexanone	0.105		0.0500	mg/Kg wet	0.100		105	59-154		
3,3-Dimethyl-1-butanol	0.543		0.0500	mg/Kg wet	0.500		109	50-150		
4-Chlorotoluene	0.0538		0.00500	mg/Kg wet	0.0500		108	76-140		
4-Methyl-2-pentanone (MIBK)	0.100		0.0500	mg/Kg wet	0.100		100	65-132		
Acetone	0.0922		0.0500	mg/Kg wet	0.100		92	43-163		
Acrolein	0.123		0.0100	mg/Kg wet	0.100		123	41-157		
Acrylonitrile	0.102		0.0100	mg/Kg wet	0.100		102	64-156		
Benzene	0.0513		0.00500	mg/Kg wet	0.0500		103	82-121		
Bromobenzene	0.0516		0.00500	mg/Kg wet	0.0500		103	83-120		
Bromochloromethane	0.0571		0.00500	mg/Kg wet	0.0500		114	79-126		
Bromodichloromethane	0.0533		0.00500	mg/Kg wet	0.0500		107	80-135		
Bromoform	0.0514		0.00500	mg/Kg wet	0.0500		103	71-135		
Bromomethane (Methyl Bromide)	0.0580		0.00500	mg/Kg wet	0.0500		116	51-149		
Carbon disulfide	0.0652		0.00500	mg/Kg wet	0.0500		130	57-151		
Carbon tetrachloride	0.0563		0.00500	mg/Kg wet	0.0500		113	70-156		
Chlorobenzene	0.0551		0.00500	mg/Kg wet	0.0500		110	76-131		
Chloroethane	0.0550		0.00500	mg/Kg wet	0.0500		110	64-131		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0197 (Continued)										
LCS (B6F0197-BS1)					Prepared & Analyzed: 6/7/2016					
Chloroform	0.0517		0.00500	mg/Kg wet	0.0500		103	78-125		
Chloromethane (Methyl Chloride)	0.0558		0.00500	mg/Kg wet	0.0500		112	0-200		
cis-1,2-Dichloroethene	0.0572		0.00500	mg/Kg wet	0.0500		114	80-123		
cis-1,3-Dichloropropene	0.0539		0.00500	mg/Kg wet	0.0500		108	81-123		
Cyclohexane	0.0537		0.00500	mg/Kg wet	0.0500		107	58-164		
Dibromochloromethane	0.0536		0.00500	mg/Kg wet	0.0500		107	81-136		
Dibromomethane	0.0540		0.00500	mg/Kg wet	0.0500		108	79-128		
Dichlorodifluoromethane	0.0715		0.00500	mg/Kg wet	0.0500		143	33-161		
Diethyl Ether (Ethyl Ether)	0.0564		0.00500	mg/Kg wet	0.0500		113	50-145		
Ethyl methacrylate	0.0485		0.00500	mg/Kg wet	0.0500		97	72-126		
Ethylbenzene	0.0543		0.00500	mg/Kg wet	0.0500		109	84-129		
Hexachlorobutadiene	0.0397		0.00500	mg/Kg wet	0.0500		79	33-221		
Isopropylbenzene	0.0532		0.00500	mg/Kg wet	0.0500		106	65-153		
m,p-Xylenes	0.112		0.0100	mg/Kg wet	0.100		112	75-141		
2-Butanone (MEK)	0.0975		0.0100	mg/Kg wet	0.100		97	44-158		
Methyl acetate	0.0487		0.00500	mg/Kg wet	0.0500		97	45-155		
Methyl tert-butyl ether (MTBE)	0.114		0.0100	mg/Kg wet	0.100		114	70-131		
Methylcyclohexane	0.0557		0.00500	mg/Kg wet	0.0500		111	39-185		
Methylene Chloride	0.0580		0.00500	mg/Kg wet	0.0500		116	65-137		
Naphthalene	0.0428		0.00500	mg/Kg wet	0.0500		86	68-151		
n-Butylbenzene	0.0512		0.00500	mg/Kg wet	0.0500		102	43-199		
n-Propylbenzene	0.0536		0.00500	mg/Kg wet	0.0500		107	60-161		
o-Xylene	0.0549		0.00500	mg/Kg wet	0.0500		110	73-141		
4-Isopropyltoluene (p-Cymene)	0.0518		0.00500	mg/Kg wet	0.0500		104	59-127		
sec-Butylbenzene	0.0508		0.00500	mg/Kg wet	0.0500		102	44-179		
Styrene	0.0571		0.00500	mg/Kg wet	0.0500		114	82-129		
tert-Butylbenzene	0.0500		0.00500	mg/Kg wet	0.0500		100	56-163		
Tetrachloroethylene	0.0486		0.00500	mg/Kg wet	0.0500		97	64-148		
Tetrahydrofuran	0.0473		0.00500	mg/Kg wet	0.0500		95	51-157		
Toluene	0.0528		0.00500	mg/Kg wet	0.0500		106	83-115		
trans-1,2-Dichloroethene	0.0593		0.00500	mg/Kg wet	0.0500		119	72-132		
trans-1,3-Dichloropropene	0.0490		0.00500	mg/Kg wet	0.0500		98	82-132		
Trichloroethylene	0.0520		0.00500	mg/Kg wet	0.0500		104	80-126		
Trichlorofluoromethane	0.0150	X	0.00500	mg/Kg wet	0.0500		30	55-155		
Vinyl acetate	0.0627		0.00500	mg/Kg wet	0.0500		125	57-146		
Vinyl chloride	0.0575		0.00500	mg/Kg wet	0.0500		115	70-130		
Surrogate: 1,2-Dichloroethane-D4 (SUR)			*0.0470*	*mg/Kg wet*	*0.0500*		*94*	*50-150*		
Surrogate: 4-Bromofluorobenzene (SUR)			*0.0487*	*mg/Kg wet*	*0.0500*		*97*	*57-158*		
Surrogate: Toluene-D8 (SUR)			*0.0463*	*mg/Kg wet*	*0.0500*		*93*	*50-150*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0197 (Continued)										
LCS Dup (B6F0197-BSD1)					Prepared & Analyzed: 6/7/2016					
1,1,1,2-Tetrachloroethane	0.0505		0.00500	mg/Kg wet	0.0500		101	83-126	7	20
1,1,1-Trichloroethane	0.0511		0.00500	mg/Kg wet	0.0500		102	75-145	11	20
1,1,2,2-Tetrachloroethane	0.0524		0.00500	mg/Kg wet	0.0500		105	78-120	0.2	20
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.0546		0.00500	mg/Kg wet	0.0500		109	54-173	15	20
1,1,2-Trichloroethane	0.0516		0.00500	mg/Kg wet	0.0500		103	81-115	7	20
1,1-Dichloroethane	0.0531		0.00500	mg/Kg wet	0.0500		106	73-131	11	20
1,1-Dichloroethene	0.0532		0.00500	mg/Kg wet	0.0500		106	67-144	14	20
1,1-Dichloropropene	0.0473		0.00500	mg/Kg wet	0.0500		95	83-141	13	20
1,2,3-Trichlorobenzene	0.0302		0.00500	mg/Kg wet	0.0500		60	59-168	11	20
1,2,3-Trichloropropane	0.0501		0.00500	mg/Kg wet	0.0500		100	73-129	7	20
1,2,4-Trichlorobenzene	0.0361		0.00500	mg/Kg wet	0.0500		72	61-170	13	20
1,2,4-Trimethylbenzene	0.0455		0.00500	mg/Kg wet	0.0500		91	73-145	16	20
1,2-Dibromo-3-Chloropropane (DBCP)	0.0482		0.00500	mg/Kg wet	0.0500		96	62-146	4	20
1,2-Dibromoethane (EDB)	0.0529		0.00500	mg/Kg wet	0.0500		106	81-121	3	20
1,2-Dichlorobenzene	0.0462		0.00500	mg/Kg wet	0.0500		92	70-146	11	20
1,2-Dichloroethane	0.0484		0.00500	mg/Kg wet	0.0500		97	63-150	6	20
1,2-Dichloropropane	0.0464		0.00500	mg/Kg wet	0.0500		93	76-121	12	20
1,3,5-Trimethylbenzene	0.0442		0.00500	mg/Kg wet	0.0500		88	69-152	16	20
1,3-Dichlorobenzene	0.0466		0.00500	mg/Kg wet	0.0500		93	73-145	12	20
1,3-Dichloropropane	0.0504		0.00500	mg/Kg wet	0.0500		101	82-117	2	20
1,4-Dichlorobenzene	0.0474		0.00500	mg/Kg wet	0.0500		95	74-143	12	20
2,2-Dichloropropane	0.0574		0.00500	mg/Kg wet	0.0500		115	67-153	8	20
2-Chloroethyl vinyl ether	0.0169	X	0.0100	mg/Kg wet	0.100		17	57-142	6	20
2-Chlorotoluene	0.0454		0.00500	mg/Kg wet	0.0500		91	74-143	14	20
2-Hexanone	0.111		0.0500	mg/Kg wet	0.100		111	59-154	6	20
3,3-Dimethyl-1-butanol	0.568		0.0500	mg/Kg wet	0.500		114	50-150	5	20
4-Chlorotoluene	0.0469		0.00500	mg/Kg wet	0.0500		94	76-140	14	20
4-Methyl-2-pentanone (MIBK)	0.0988		0.0500	mg/Kg wet	0.100		99	65-132	1	20
Acetone	0.100		0.0500	mg/Kg wet	0.100		100	43-163	8	20
Acrolein	0.135		0.0100	mg/Kg wet	0.100		135	41-157	9	20
Acrylonitrile	0.104		0.0100	mg/Kg wet	0.100		104	64-156	2	20
Benzene	0.0460		0.00500	mg/Kg wet	0.0500		92	82-121	11	20
Bromobenzene	0.0469		0.00500	mg/Kg wet	0.0500		94	83-120	10	20
Bromochloromethane	0.0548		0.00500	mg/Kg wet	0.0500		110	79-126	4	20
Bromodichloromethane	0.0472		0.00500	mg/Kg wet	0.0500		94	80-135	12	20
Bromoform	0.0502		0.00500	mg/Kg wet	0.0500		100	71-135	2	20
Bromomethane (Methyl Bromide)	0.0605		0.00500	mg/Kg wet	0.0500		121	51-149	4	20
Carbon disulfide	0.0579		0.00500	mg/Kg wet	0.0500		116	57-151	12	20
Carbon tetrachloride	0.0496		0.00500	mg/Kg wet	0.0500		99	70-156	13	20
Chlorobenzene	0.0483		0.00500	mg/Kg wet	0.0500		97	76-131	13	20
Chloroethane	0.0564		0.00500	mg/Kg wet	0.0500		113	64-131	2	20

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0197 (Continued)										
LCS Dup (B6F0197-BSD1)					Prepared & Analyzed: 6/7/2016					
Chloroform	0.0463		0.00500	mg/Kg wet	0.0500		93	78-125	11	20
Chloromethane (Methyl Chloride)	0.0551		0.00500	mg/Kg wet	0.0500		110	0-200	1	20
cis-1,2-Dichloroethene	0.0539		0.00500	mg/Kg wet	0.0500		108	80-123	6	20
cis-1,3-Dichloropropene	0.0498		0.00500	mg/Kg wet	0.0500		100	81-123	8	20
Cyclohexane	0.0445		0.00500	mg/Kg wet	0.0500		89	58-164	19	20
Dibromochloromethane	0.0488		0.00500	mg/Kg wet	0.0500		98	81-136	9	20
Dibromomethane	0.0509		0.00500	mg/Kg wet	0.0500		102	79-128	6	20
Dichlorodifluoromethane	0.0670		0.00500	mg/Kg wet	0.0500		134	33-161	6	20
Diethyl Ether (Ethyl Ether)	0.0519		0.00500	mg/Kg wet	0.0500		104	50-145	8	20
Ethyl methacrylate	0.0484		0.00500	mg/Kg wet	0.0500		97	72-126	0.2	20
Ethylbenzene	0.0486		0.00500	mg/Kg wet	0.0500		97	84-129	11	20
Hexachlorobutadiene	0.0338		0.00500	mg/Kg wet	0.0500		68	33-221	16	20
Isopropylbenzene	0.0449		0.00500	mg/Kg wet	0.0500		90	65-153	17	20
m,p-Xylenes	0.0971		0.0100	mg/Kg wet	0.100		97	75-141	14	20
2-Butanone (MEK)	0.114		0.0100	mg/Kg wet	0.100		114	44-158	15	20
Methyl acetate	0.0511		0.00500	mg/Kg wet	0.0500		102	45-155	5	20
Methyl tert-butyl ether (MTBE)	0.112		0.0100	mg/Kg wet	0.100		112	70-131	1	20
Methylcyclohexane	0.0469		0.00500	mg/Kg wet	0.0500		94	39-185	17	20
Methylene Chloride	0.0538		0.00500	mg/Kg wet	0.0500		108	65-137	7	20
Naphthalene	0.0415		0.00500	mg/Kg wet	0.0500		83	68-151	3	20
n-Butylbenzene	0.0424		0.00500	mg/Kg wet	0.0500		85	43-199	19	20
n-Propylbenzene	0.0459		0.00500	mg/Kg wet	0.0500		92	60-161	15	20
o-Xylene	0.0486		0.00500	mg/Kg wet	0.0500		97	73-141	12	20
4-Isopropyltoluene (p-Cymene)	0.0442		0.00500	mg/Kg wet	0.0500		88	59-127	16	20
sec-Butylbenzene	0.0430		0.00500	mg/Kg wet	0.0500		86	44-179	17	20
Styrene	0.0509		0.00500	mg/Kg wet	0.0500		102	82-129	11	20
tert-Butylbenzene	0.0424		0.00500	mg/Kg wet	0.0500		85	56-163	16	20
Tetrachloroethylene	0.0431		0.00500	mg/Kg wet	0.0500		86	64-148	12	20
Tetrahydrofuran	0.0504		0.00500	mg/Kg wet	0.0500		101	51-157	6	20
Toluene	0.0467		0.00500	mg/Kg wet	0.0500		93	83-115	12	20
trans-1,2-Dichloroethene	0.0514		0.00500	mg/Kg wet	0.0500		103	72-132	14	20
trans-1,3-Dichloropropene	0.0475		0.00500	mg/Kg wet	0.0500		95	82-132	3	20
Trichloroethylene	0.0468		0.00500	mg/Kg wet	0.0500		94	80-126	10	20
Trichlorofluoromethane	0.0156	X	0.00500	mg/Kg wet	0.0500		31	55-155	5	20
Vinyl acetate	0.0612		0.00500	mg/Kg wet	0.0500		122	57-146	2	20
Vinyl chloride	0.0601		0.00500	mg/Kg wet	0.0500		120	70-130	4	20
Surrogate: 1,2-Dichloroethane-D4 (SUR)			*0.0484*	*mg/Kg wet*	*0.0500*		*97*	*50-150*		
Surrogate: 4-Bromofluorobenzene (SUR)			*0.0492*	*mg/Kg wet*	*0.0500*		*98*	*57-158*		
Surrogate: Toluene-D8 (SUR)			*0.0468*	*mg/Kg wet*	*0.0500*		*94*	*50-150*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0197 (Continued)										
Matrix Spike (B6F0197-MS1)		**Source: A6F0016-20**			Prepared & Analyzed: 6/7/2016					
1,1,1,2-Tetrachloroethane	0.0572		0.00608	mg/Kg dry	0.0608	ND	94	73-124		
1,1,1-Trichloroethane	0.0543		0.00608	mg/Kg dry	0.0608	ND	89	62-137		
1,1,2,2-Tetrachloroethane	0.0692		0.00608	mg/Kg dry	0.0608	ND	114	64-128		
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.0539		0.00608	mg/Kg dry	0.0608	ND	89	54-173		
1,1,2-Trichloroethane	0.0627		0.00608	mg/Kg dry	0.0608	ND	103	61-130		
1,1-Dichloroethane	0.0547		0.00608	mg/Kg dry	0.0608	ND	90	65-136		
1,1-Dichloroethene	0.0533		0.00608	mg/Kg dry	0.0608	ND	88	33-158		
1,1-Dichloropropene	0.0506		0.00608	mg/Kg dry	0.0608	ND	83	42-152		
1,2,3-Trichlorobenzene	0.0359		0.00608	mg/Kg dry	0.0608	ND	59	48-135		
1,2,3-Trichloropropane	0.0679		0.00608	mg/Kg dry	0.0608	ND	112	58-134		
1,2,4-Trichlorobenzene	0.0455		0.00608	mg/Kg dry	0.0608	ND	75	61-170		
1,2,4-Trimethylbenzene	0.0576		0.00608	mg/Kg dry	0.0608	ND	95	66-134		
1,2-Dibromo-3-Chloropropane (DBCP)	0.0604		0.00608	mg/Kg dry	0.0608	ND	99	53-121		
1,2-Dibromoethane (EDB)	0.0640		0.00608	mg/Kg dry	0.0608	ND	105	66-125		
1,2-Dichlorobenzene	0.0578		0.00608	mg/Kg dry	0.0608	ND	95	58-124		
1,2-Dichloroethane	0.0602		0.00608	mg/Kg dry	0.0608	ND	99	53-140		
1,2-Dichloropropane	0.0549		0.00608	mg/Kg dry	0.0608	ND	90	68-126		
1,3,5-Trimethylbenzene	0.0556		0.00608	mg/Kg dry	0.0608	ND	91	67-134		
1,3-Dichlorobenzene	0.0552		0.00608	mg/Kg dry	0.0608	ND	91	73-145		
1,3-Dichloropropane	0.0603		0.00608	mg/Kg dry	0.0608	ND	99	70-129		
1,4-Dichlorobenzene	0.0566		0.00608	mg/Kg dry	0.0608	ND	93	64-114		
2,2-Dichloropropane	0.0495		0.00608	mg/Kg dry	0.0608	ND	81	68-151		
2-Chloroethyl vinyl ether	ND	XU	0.0122	mg/Kg dry	0.122	ND		57-142		
2-Chlorotoluene	0.0533		0.00608	mg/Kg dry	0.0608	ND	88	68-127		
2-Hexanone	0.0837		0.0608	mg/Kg dry	0.122	ND	69	55-136		
3,3-Dimethyl-1-butanol	0.438		0.0608	mg/Kg dry	0.608	ND	72	60-135		
4-Chlorotoluene	0.0567		0.00608	mg/Kg dry	0.0608	ND	93	68-127		
4-Methyl-2-pentanone (MIBK)	0.0985		0.0608	mg/Kg dry	0.122	ND	81	65-132		
Acetone	0.182		0.0608	mg/Kg dry	0.122	0.0225	131	40-140		
Acrolein	0.139		0.0122	mg/Kg dry	0.122	ND	114	41-157		
Acrylonitrile	0.130		0.0122	mg/Kg dry	0.122	ND	107	37-160		
Benzene	0.0517		0.00608	mg/Kg dry	0.0608	ND	85	65-135		
Bromobenzene	0.0528		0.00608	mg/Kg dry	0.0608	ND	87	67-121		
Bromochloromethane	0.0573		0.00608	mg/Kg dry	0.0608	ND	94	66-137		
Bromodichloromethane	0.0529		0.00608	mg/Kg dry	0.0608	ND	87	60-129		
Bromoform	0.0559		0.00608	mg/Kg dry	0.0608	ND	92	48-147		
Bromomethane (Methyl Bromide)	0.0592		0.00608	mg/Kg dry	0.0608	ND	97	42-170		
Carbon disulfide	0.0577		0.00608	mg/Kg dry	0.0608	ND	95	57-151		
Carbon tetrachloride	0.0516		0.00608	mg/Kg dry	0.0608	ND	85	71-117		
Chlorobenzene	0.0555		0.00608	mg/Kg dry	0.0608	ND	91	71-117		
Chloroethane	0.0521		0.00608	mg/Kg dry	0.0608	ND	86	44-166		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0197 (Continued)										
Matrix Spike (B6F0197-MS1)		**Source: A6F0016-20**			Prepared & Analyzed: 6/7/2016					
Chloroform	0.0536		0.00608	mg/Kg dry	0.0608	ND	88	62-127		
Chloromethane (Methyl Chloride)	0.0693		0.00608	mg/Kg dry	0.0608	ND	114	0-200		
cis-1,2-Dichloroethene	0.0545		0.00608	mg/Kg dry	0.0608	ND	90	80-123		
cis-1,3-Dichloropropene	0.0543		0.00608	mg/Kg dry	0.0608	ND	89	63-128		
Cyclohexane	0.0503		0.00608	mg/Kg dry	0.0608	ND	83	58-164		
Dibromochloromethane	0.0558		0.00608	mg/Kg dry	0.0608	ND	92	59-135		
Dibromomethane	0.0606		0.00608	mg/Kg dry	0.0608	ND	100	62-132		
Dichlorodifluoromethane	0.0661		0.00608	mg/Kg dry	0.0608	ND	109	16-171		
Diethyl Ether (Ethyl Ether)	0.0680		0.00608	mg/Kg dry	0.0608	ND	112	50-145		
Ethyl methacrylate	0.0519		0.00608	mg/Kg dry	0.0608	ND	85	72-126		
Ethylbenzene	0.0538		0.00608	mg/Kg dry	0.0608	ND	88	65-139		
Hexachlorobutadiene	0.0438		0.00608	mg/Kg dry	0.0608	ND	72	48-143		
Isopropylbenzene	0.0542		0.00608	mg/Kg dry	0.0608	ND	89	62-133		
m,p-Xylenes	0.111		0.0122	mg/Kg dry	0.122	ND	91	69-130		
2-Butanone (MEK)	0.120		0.0122	mg/Kg dry	0.122	0.0217	81	44-158		
Methyl acetate	0.0623		0.00608	mg/Kg dry	0.0608	ND	102	45-155		
Methyl tert-butyl ether (MTBE)	0.0651		0.0122	mg/Kg dry	0.122	ND	54	48-169		
Methylcyclohexane	0.0492		0.00608	mg/Kg dry	0.0608	ND	81	39-185		
Methylene Chloride	0.0627		0.00608	mg/Kg dry	0.0608	ND	103	34-157		
Naphthalene	0.0414		0.00608	mg/Kg dry	0.0608	ND	68	68-151		
n-Butylbenzene	0.0601		0.00608	mg/Kg dry	0.0608	ND	99	59-136		
n-Propylbenzene	0.0563		0.00608	mg/Kg dry	0.0608	ND	93	67-134		
o-Xylene	0.0546		0.00608	mg/Kg dry	0.0608	ND	90	71-124		
4-Isopropyltoluene (p-Cymene)	0.0600		0.00608	mg/Kg dry	0.0608	ND	99	65-131		
sec-Butylbenzene	0.0566		0.00608	mg/Kg dry	0.0608	ND	93	65-131		
Styrene	0.0543		0.00608	mg/Kg dry	0.0608	ND	89	50-143		
tert-Butylbenzene	0.0543		0.00608	mg/Kg dry	0.0608	ND	89	56-163		
Tetrachloroethylene	0.0446		0.00608	mg/Kg dry	0.0608	ND	73	42-156		
Tetrahydrofuran	0.0632		0.00608	mg/Kg dry	0.0608	ND	104	51-157		
Toluene	0.0523		0.00608	mg/Kg dry	0.0608	ND	86	13-188		
trans-1,2-Dichloroethene	0.0558		0.00608	mg/Kg dry	0.0608	ND	92	57-143		
trans-1,3-Dichloropropene	0.0542		0.00608	mg/Kg dry	0.0608	ND	89	55-141		
Trichloroethylene	0.0516		0.00608	mg/Kg dry	0.0608	ND	85	39-150		
Trichlorofluoromethane	0.0233		0.00608	mg/Kg dry	0.0608	ND	38	34-179		
Vinyl acetate	0.0652		0.00608	mg/Kg dry	0.0608	ND	107	57-146		
Vinyl chloride	0.0553		0.00608	mg/Kg dry	0.0608	ND	91	40-161		
Surrogate: 1,2-Dichloroethane-D4 (SUR)			*0.0644*	*mg/Kg dry*	*0.0608*		*106*	*50-150*		
Surrogate: 4-Bromofluorobenzene (SUR)			*0.0593*	*mg/Kg dry*	*0.0608*		*97*	*57-158*		
Surrogate: Toluene-D8 (SUR)			*0.0635*	*mg/Kg dry*	*0.0608*		*104*	*50-150*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0197 (Continued)										
Matrix Spike Dup (B6F0197-MSD1)		**Source: A6F0016-20**			Prepared & Analyzed: 6/7/2016					
1,1,1,2-Tetrachloroethane	0.0652		0.00608	mg/Kg dry	0.0608	ND	107	73-124	13	20
1,1,1-Trichloroethane	0.0569		0.00608	mg/Kg dry	0.0608	ND	94	62-137	5	20
1,1,2,2-Tetrachloroethane	0.0762		0.00608	mg/Kg dry	0.0608	ND	125	64-128	10	20
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.0546		0.00608	mg/Kg dry	0.0608	ND	90	54-173	1	20
1,1,2-Trichloroethane	0.0695		0.00608	mg/Kg dry	0.0608	ND	114	61-130	10	20
1,1-Dichloroethane	0.0580		0.00608	mg/Kg dry	0.0608	ND	95	65-136	6	20
1,1-Dichloroethene	0.0572		0.00608	mg/Kg dry	0.0608	ND	94	33-158	7	20
1,1-Dichloropropene	0.0531		0.00608	mg/Kg dry	0.0608	ND	87	42-152	5	20
1,2,3-Trichlorobenzene	0.0434		0.00608	mg/Kg dry	0.0608	ND	71	48-135	19	20
1,2,3-Trichloropropane	0.0786		0.00608	mg/Kg dry	0.0608	ND	129	58-134	15	20
1,2,4-Trichlorobenzene	0.0495		0.00608	mg/Kg dry	0.0608	ND	81	61-170	9	20
1,2,4-Trimethylbenzene	0.0657		0.00608	mg/Kg dry	0.0608	ND	108	66-134	13	20
1,2-Dibromo-3-Chloropropane (DBCP)	0.0731		0.00608	mg/Kg dry	0.0608	ND	120	53-121	19	20
1,2-Dibromoethane (EDB)	0.0730		0.00608	mg/Kg dry	0.0608	ND	120	66-125	13	20
1,2-Dichlorobenzene	0.0637		0.00608	mg/Kg dry	0.0608	ND	105	58-124	10	20
1,2-Dichloroethane	0.0630		0.00608	mg/Kg dry	0.0608	ND	104	53-140	5	20
1,2-Dichloropropane	0.0591		0.00608	mg/Kg dry	0.0608	ND	97	68-126	7	20
1,3,5-Trimethylbenzene	0.0627		0.00608	mg/Kg dry	0.0608	ND	103	67-134	12	20
1,3-Dichlorobenzene	0.0615		0.00608	mg/Kg dry	0.0608	ND	101	73-145	11	20
1,3-Dichloropropane	0.0680		0.00608	mg/Kg dry	0.0608	ND	112	70-129	12	20
1,4-Dichlorobenzene	0.0636		0.00608	mg/Kg dry	0.0608	ND	105	64-114	12	20
2,2-Dichloropropane	0.0599		0.00608	mg/Kg dry	0.0608	ND	99	68-151	19	20
2-Chloroethyl vinyl ether	ND	XU	0.0122	mg/Kg dry	0.122	ND		57-142		20
2-Chlorotoluene	0.0601		0.00608	mg/Kg dry	0.0608	ND	99	68-127	12	20
2-Hexanone	0.126	X	0.0608	mg/Kg dry	0.122	ND	104	55-136	41	20
3,3-Dimethyl-1-butanol	0.620	X	0.0608	mg/Kg dry	0.608	ND	102	60-135	34	20
4-Chlorotoluene	0.0614		0.00608	mg/Kg dry	0.0608	ND	101	68-127	8	20
4-Methyl-2-pentanone (MIBK)	0.135	X	0.0608	mg/Kg dry	0.122	ND	111	65-132	31	20
Acetone	0.146	X	0.0608	mg/Kg dry	0.122	0.0225	102	40-140	22	20
Acrolein	0.131		0.0122	mg/Kg dry	0.122	ND	107	41-157	6	20
Acrylonitrile	0.136		0.0122	mg/Kg dry	0.122	ND	112	37-160	5	20
Benzene	0.0561		0.00608	mg/Kg dry	0.0608	ND	92	65-135	8	20
Bromobenzene	0.0590		0.00608	mg/Kg dry	0.0608	ND	97	67-121	11	20
Bromochloromethane	0.0648		0.00608	mg/Kg dry	0.0608	ND	106	66-137	12	20
Bromodichloromethane	0.0574		0.00608	mg/Kg dry	0.0608	ND	94	60-129	8	20
Bromoform	0.0573		0.00608	mg/Kg dry	0.0608	ND	94	48-147	2	20
Bromomethane (Methyl Bromide)	0.0587		0.00608	mg/Kg dry	0.0608	ND	97	42-170	0.8	20
Carbon disulfide	0.0484		0.00608	mg/Kg dry	0.0608	ND	80	57-151	17	20
Carbon tetrachloride	0.0539		0.00608	mg/Kg dry	0.0608	ND	89	71-117	4	20
Chlorobenzene	0.0609		0.00608	mg/Kg dry	0.0608	ND	100	71-117	9	20
Chloroethane	0.0540		0.00608	mg/Kg dry	0.0608	ND	89	44-166	4	20

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0197 (Continued)										
Matrix Spike Dup (B6F0197-MSD1)		**Source: A6F0016-20**			Prepared & Analyzed: 6/7/2016					
Chloroform	0.0573		0.00608	mg/Kg dry	0.0608	ND	94	62-127	7	20
Chloromethane (Methyl Chloride)	0.0634		0.00608	mg/Kg dry	0.0608	ND	104	0-200	9	20
cis-1,2-Dichloroethene	0.0585		0.00608	mg/Kg dry	0.0608	ND	96	80-123	7	20
cis-1,3-Dichloropropene	0.0600		0.00608	mg/Kg dry	0.0608	ND	99	63-128	10	20
Cyclohexane	0.0513		0.00608	mg/Kg dry	0.0608	ND	84	58-164	2	20
Dibromochloromethane	0.0592		0.00608	mg/Kg dry	0.0608	ND	97	59-135	6	20
Dibromomethane	0.0688		0.00608	mg/Kg dry	0.0608	ND	113	62-132	13	20
Dichlorodifluoromethane	0.0630		0.00608	mg/Kg dry	0.0608	ND	104	16-171	5	20
Diethyl Ether (Ethyl Ether)	0.0698		0.00608	mg/Kg dry	0.0608	ND	115	50-145	3	20
Ethyl methacrylate	0.0663	X	0.00608	mg/Kg dry	0.0608	ND	109	72-126	24	20
Ethylbenzene	0.0599		0.00608	mg/Kg dry	0.0608	ND	98	65-139	11	20
Hexachlorobutadiene	0.0523		0.00608	mg/Kg dry	0.0608	ND	86	48-143	18	20
Isopropylbenzene	0.0604		0.00608	mg/Kg dry	0.0608	ND	99	62-133	11	20
m,p-Xylenes	0.123		0.0122	mg/Kg dry	0.122	ND	101	69-130	10	20
2-Butanone (MEK)	0.135		0.0122	mg/Kg dry	0.122	0.0217	93	44-158	12	20
Methyl acetate	0.0607		0.00608	mg/Kg dry	0.0608	ND	100	45-155	3	20
Methyl tert-butyl ether (MTBE)	0.0713		0.0122	mg/Kg dry	0.122	ND	59	48-169	9	20
Methylcyclohexane	0.0517		0.00608	mg/Kg dry	0.0608	ND	85	39-185	5	20
Methylene Chloride	0.0657		0.00608	mg/Kg dry	0.0608	ND	108	34-157	5	20
Naphthalene	0.0563	X	0.00608	mg/Kg dry	0.0608	ND	92	68-151	31	20
n-Butylbenzene	0.0666		0.00608	mg/Kg dry	0.0608	ND	109	59-136	10	20
n-Propylbenzene	0.0626		0.00608	mg/Kg dry	0.0608	ND	103	67-134	11	20
o-Xylene	0.0604		0.00608	mg/Kg dry	0.0608	ND	99	71-124	10	20
4-Isopropyltoluene (p-Cymene)	0.0660		0.00608	mg/Kg dry	0.0608	ND	108	65-131	10	20
sec-Butylbenzene	0.0632		0.00608	mg/Kg dry	0.0608	ND	104	65-131	11	20
Styrene	0.0579		0.00608	mg/Kg dry	0.0608	ND	95	50-143	6	20
tert-Butylbenzene	0.0624		0.00608	mg/Kg dry	0.0608	ND	103	56-163	14	20
Tetrachloroethylene	0.0497		0.00608	mg/Kg dry	0.0608	ND	82	42-156	11	20
Tetrahydrofuran	0.0702		0.00608	mg/Kg dry	0.0608	ND	115	51-157	10	20
Toluene	0.0565		0.00608	mg/Kg dry	0.0608	ND	93	13-188	8	20
trans-1,2-Dichloroethene	0.0577		0.00608	mg/Kg dry	0.0608	ND	95	57-143	3	20
trans-1,3-Dichloropropene	0.0590		0.00608	mg/Kg dry	0.0608	ND	97	55-141	8	20
Trichloroethylene	0.0558		0.00608	mg/Kg dry	0.0608	ND	92	39-150	8	20
Trichlorofluoromethane	0.0261		0.00608	mg/Kg dry	0.0608	ND	43	34-179	12	20
Vinyl acetate	0.0654		0.00608	mg/Kg dry	0.0608	ND	107	57-146	0.2	20
Vinyl chloride	0.0510		0.00608	mg/Kg dry	0.0608	ND	84	40-161	8	20
Surrogate: 1,2-Dichloroethane-D4 (SUR)			*0.0621*	*mg/Kg dry*	*0.0608*		*102*	*50-150*		
Surrogate: 4-Bromofluorobenzene (SUR)			*0.0591*	*mg/Kg dry*	*0.0608*		*97*	*57-158*		
Surrogate: Toluene-D8 (SUR)			*0.0612*	*mg/Kg dry*	*0.0608*		*101*	*50-150*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

SVOCs by Method 8270D

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0204										
Blank (B6F0204-BLK1)					Prepared: 6/8/2016 Analyzed: 6/9/2016					
1,2,4-Trichlorobenzene	ND	U	0.333	mg/Kg wet						
1,2-Dichlorobenzene	ND	U	0.333	mg/Kg wet						
1,3-Dichlorobenzene	ND	U	0.333	mg/Kg wet						
1,4-Dichlorobenzene	ND	U	0.333	mg/Kg wet						
1-Methylnaphthalene	ND	U	0.333	mg/Kg wet						
2,4,5-Trichlorophenol	ND	U	0.333	mg/Kg wet						
2,4,6-Trichlorophenol	ND	U	0.333	mg/Kg wet						
2,4-Dichlorophenol	ND	U	0.333	mg/Kg wet						
2,4-Dimethylphenol	ND	U	0.333	mg/Kg wet						
2,4-Dinitrophenol	ND	U	0.666	mg/Kg wet						
2,4-Dinitrotoluene	ND	U	0.333	mg/Kg wet						
2,6-Dinitrotoluene	ND	U	0.333	mg/Kg wet						
2-Chloronaphthalene	ND	U	0.333	mg/Kg wet						
2-Chlorophenol	ND	U	0.333	mg/Kg wet						
2-Methylnaphthalene	ND	U	0.333	mg/Kg wet						
2-Methylphenol	ND	U	0.666	mg/Kg wet						
2-Nitroaniline	ND	U	0.333	mg/Kg wet						
2-Nitrophenol	ND	U	0.666	mg/Kg wet						
3&4-Methylphenol	ND	U	0.833	mg/Kg wet						
3,3-Dichlorobenzidine	ND	U	0.333	mg/Kg wet						
3-Nitroaniline	ND	U	0.333	mg/Kg wet						
4,6-dinitro-2-methyl phenol	ND	U	0.333	mg/Kg wet						
4-Bromophenyl-phenylether	ND	U	0.333	mg/Kg wet						
4-chloro-3-methylphenol	ND	U	0.333	mg/Kg wet						
4-Nitroaniline	ND	U	0.666	mg/Kg wet						
4-Nitrophenol	ND	U	0.666	mg/Kg wet						
Acenaphthene	ND	U	0.333	mg/Kg wet						
Acenaphthylene	ND	U	0.333	mg/Kg wet						
Aniline (Phenylamine, Aminobenzene)	ND	U	0.333	mg/Kg wet						
Anthracene	ND	U	0.333	mg/Kg wet						
Benzo(a)anthracene	ND	U	0.333	mg/Kg wet						
Benzo(a)pyrene	ND	U	0.333	mg/Kg wet						
Benzo(b)fluoranthene	ND	U	0.333	mg/Kg wet						
Benzo(g,h,i)perylene	ND	U	0.333	mg/Kg wet						
Benzo(k)fluoranthene	ND	U	0.333	mg/Kg wet						
Benzoic Acid	ND	U	0.666	mg/Kg wet						
Benzyl Alcohol	ND	U	0.333	mg/Kg wet						
Butyl Benzyl Phthalate	ND	U	0.333	mg/Kg wet						
bis(2-chloroethoxy) methane	ND	U	0.333	mg/Kg wet						
bis(2-chloroethyl) ether	ND	U	0.333	mg/Kg wet						
bis(2-chloroisopropyl) ether	ND	U	0.333	mg/Kg wet						

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0204 (Continued)										
Blank (B6F0204-BLK1)					Prepared: 6/8/2016 Analyzed: 6/9/2016					
bis(2-ethylhexyl) phthalate	ND	U	0.333	mg/Kg wet						
Chrysene	ND	U	0.333	mg/Kg wet						
Dibenz(a,h)Anthracene	ND	U	0.333	mg/Kg wet						
Dibenzofuran	ND	U	0.333	mg/Kg wet						
Diethyl Phthalate	ND	U	0.333	mg/Kg wet						
Dimethyl Phthalate	ND	U	0.333	mg/Kg wet						
di-n-Butyl Phthalate	ND	U	0.333	mg/Kg wet						
di-n-Octyl Phthalate	ND	U	0.333	mg/Kg wet						
Fluoranthene	ND	U	0.333	mg/Kg wet						
Fluorene	ND	U	0.333	mg/Kg wet						
Hexachlorobenzene	ND	U	0.333	mg/Kg wet						
Hexachlorobutadiene	ND	U	0.333	mg/Kg wet						
Hexachlorocyclopentadiene	ND	U	0.333	mg/Kg wet						
Hexachloroethane	ND	U	0.333	mg/Kg wet						
Indeno(1,2,3-cd)pyrene	ND	U	0.333	mg/Kg wet						
Isophorone	ND	U	0.333	mg/Kg wet						
Naphthalene	ND	U	0.333	mg/Kg wet						
Nitrobenzene	ND	U	0.333	mg/Kg wet						
N-Nitrosodimethylamine	ND	U	0.333	mg/Kg wet						
N-Nitrosodi-n-Propylamine	ND	U	0.333	mg/Kg wet						
N-Nitrosodiphenylamine	ND	U	0.333	mg/Kg wet						
Pentachlorophenol	ND	U	0.666	mg/Kg wet						
Phenanthrene	ND	U	0.333	mg/Kg wet						
Phenol	ND	U	0.333	mg/Kg wet						
Pyrene	ND	U	0.333	mg/Kg wet						
Surrogate: 2,4,6-Tribromophenol (A-SUR)			*2.60*	*mg/Kg wet*	*3.33*		*78*	*19-122*		
Surrogate: 2-Fluorobiphenyl (B-SUR)			*1.22*	*mg/Kg wet*	*1.67*		*73*	*30-115*		
Surrogate: 2-Fluorophenol (A-SUR)			*2.55*	*mg/Kg wet*	*3.33*		*77*	*25-121*		
Surrogate: Nitrobenzene-d5 (B-SUR)			*1.19*	*mg/Kg wet*	*1.67*		*72*	*23-120*		
Surrogate: Phenol-d5 (A-SURR)			*2.52*	*mg/Kg wet*	*3.33*		*76*	*15-110*		
Surrogate: Terphenyl-D14 (B-SUR)			*1.47*	*mg/Kg wet*	*1.67*		*88*	*18-137*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0204 (Continued)										
LCS (B6F0204-BS1)					Prepared: 6/8/2016 Analyzed: 6/9/2016					
1,2,4-Trichlorobenzene	1.30		0.333	mg/Kg wet	1.67		78	34-117		
1,2-Dichlorobenzene	1.41		0.333	mg/Kg wet	1.67		85	38-111		
1,3-Dichlorobenzene	1.34		0.333	mg/Kg wet	1.67		81	37-111		
1,4-Dichlorobenzene	1.29		0.333	mg/Kg wet	1.67		77	37-111		
1-Methylnaphthalene	1.48		0.333	mg/Kg wet	1.67		89	39-116		
2,4,5-Trichlorophenol	1.29		0.333	mg/Kg wet	1.67		78	39-125		
2,4,6-Trichlorophenol	1.39		0.333	mg/Kg wet	1.67		84	42-125		
2,4-Dichlorophenol	1.38		0.333	mg/Kg wet	1.67		82	38-120		
2,4-Dimethylphenol	1.56		0.333	mg/Kg wet	1.67		94	39-117		
2,4-Dinitrophenol	0.558	J	0.666	mg/Kg wet	1.67		33	13-152		
2,4-Dinitrotoluene	1.73		0.333	mg/Kg wet	1.67		104	41-128		
2,6-Dinitrotoluene	1.63		0.333	mg/Kg wet	1.67		98	42-127		
2-Chloronaphthalene	1.40		0.333	mg/Kg wet	1.67		84	40-118		
2-Chlorophenol	1.60		0.333	mg/Kg wet	1.67		96	41-108		
2-Methylnaphthalene	1.48		0.333	mg/Kg wet	1.67		89	37-112		
2-Methylphenol	1.69		0.666	mg/Kg wet	1.67		102	36-105		
2-Nitroaniline	1.71		0.333	mg/Kg wet	1.67		103	34-121		
2-Nitrophenol	1.29		0.666	mg/Kg wet	1.67		77	38-125		
3&4-Methylphenol	1.72	X	0.833	mg/Kg wet	1.67		103	35-96		
3-Nitroaniline	1.64		0.333	mg/Kg wet	1.67		98	42-123		
4,6-dinitro-2-methyl phenol	1.23		0.333	mg/Kg wet	1.67		74	12-157		
4-Bromophenyl-phenylether	1.44		0.333	mg/Kg wet	1.67		87	40-126		
4-chloro-3-methylphenol	1.63		0.333	mg/Kg wet	1.67		98	40-119		
4-Nitroaniline	1.40		0.666	mg/Kg wet	1.67		84	42-125		
4-Nitrophenol	1.19		0.666	mg/Kg wet	1.67		71	14-82		
Acenaphthene	1.44		0.333	mg/Kg wet	1.67		86	41-116		
Acenaphthylene	1.55		0.333	mg/Kg wet	1.67		93	42-126		
Aniline (Phenylamine, Aminobenzene)	1.79	X	0.333	mg/Kg wet	1.67		108	31-100		
Anthracene	1.90		0.333	mg/Kg wet	1.67		114	39-127		
Benzo(a)anthracene	1.87		0.333	mg/Kg wet	1.67		112	40-129		
Benzo(a)pyrene	2.31		0.333	mg/Kg wet	1.67		139	36-141		
Benzo(b)fluoranthene	2.19		0.333	mg/Kg wet	1.67		132	34-139		
Benzo(g,h,i)perylene	2.16		0.333	mg/Kg wet	1.67		130	32-141		
Benzo(k)fluoranthene	1.95		0.333	mg/Kg wet	1.67		117	31-139		
Benzyl Alcohol	1.12		0.333	mg/Kg wet	1.67		67	37-102		
Butyl Benzyl Phthalate	1.58		0.333	mg/Kg wet	1.67		95	44-133		
bis(2-chloroethoxy) methane	1.49		0.333	mg/Kg wet	1.67		90	36-113		
bis(2-chloroethyl) ether	1.59		0.333	mg/Kg wet	1.67		95	38-111		
bis(2-chloroisopropyl) ether	1.82		0.333	mg/Kg wet	1.67		109	32-110		
bis(2-ethylhexyl) phthalate	1.59		0.333	mg/Kg wet	1.67		96	44-136		
Chrysene	1.83		0.333	mg/Kg wet	1.67		110	41-124		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0204 (Continued)										
LCS (B6F0204-BS1)					Prepared: 6/8/2016 Analyzed: 6/9/2016					
Dibenz(a,h)Anthracene	2.29		0.333	mg/Kg wet	1.67		137	35-143		
Dibenzofuran	1.51		0.333	mg/Kg wet	1.67		90	41-119		
Diethyl Phthalate	1.65		0.333	mg/Kg wet	1.67		99	41-125		
Dimethyl Phthalate	1.56		0.333	mg/Kg wet	1.67		93	42-123		
di-n-Butyl Phthalate	1.70		0.333	mg/Kg wet	1.67		102	41-133		
di-n-Octyl Phthalate	1.74		0.333	mg/Kg wet	1.67		104	34-145		
Fluoranthene	2.00		0.333	mg/Kg wet	1.67		120	38-132		
Fluorene	1.68		0.333	mg/Kg wet	1.67		101	41-121		
Hexachlorobenzene	1.45		0.333	mg/Kg wet	1.67		87	39-128		
Hexachlorobutadiene	1.14		0.333	mg/Kg wet	1.67		69	31-120		
Hexachlorocyclopentadiene	1.36		0.333	mg/Kg wet	1.67		82	15-117		
Hexachloroethane	1.41		0.333	mg/Kg wet	1.67		84	0-200		
Indeno(1,2,3-cd)pyrene	2.27		0.333	mg/Kg wet	1.67		136	27-160		
Isophorone	1.79		0.333	mg/Kg wet	1.67		107	40-115		
Naphthalene	1.38		0.333	mg/Kg wet	1.67		83	37-113		
Nitrobenzene	1.38		0.333	mg/Kg wet	1.67		83	37-114		
N-Nitrosodimethylamine	1.42	X	0.333	mg/Kg wet	1.67		85	28-76		
N-Nitrosodi-n-Propylamine	1.80		0.333	mg/Kg wet	1.67		108	38-117		
N-Nitrosodiphenylamine	2.04		0.333	mg/Kg wet	1.67		122	40-127		
Pentachlorophenol	0.976		0.666	mg/Kg wet	1.67		59	10-137		
Phenanthrene	1.68		0.333	mg/Kg wet	1.67		101	50-115		
Phenol	1.89	X	0.333	mg/Kg wet	1.67		113	24-85		
Pyrene	1.76	X	0.333	mg/Kg wet	1.67		106	21-100		
Surrogate: 2,4,6-Tribromophenol (A-SUR)			*2.83*	*mg/Kg wet*	*3.33*		*85*	*19-122*		
Surrogate: 2-Fluorobiphenyl (B-SUR)			*1.24*	*mg/Kg wet*	*1.67*		*75*	*30-115*		
Surrogate: 2-Fluorophenol (A-SUR)			*2.91*	*mg/Kg wet*	*3.33*		*87*	*25-121*		
Surrogate: Nitrobenzene-d5 (B-SUR)			*1.28*	*mg/Kg wet*	*1.67*		*77*	*23-120*		
Surrogate: Phenol-d5 (A-SURR)			*3.34*	*mg/Kg wet*	*3.33*		*100*	*15-110*		
Surrogate: Terphenyl-D14 (B-SUR)			*1.55*	*mg/Kg wet*	*1.67*		*93*	*18-137*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0204 (Continued)										
LCS Dup (B6F0204-BSD1)					Prepared: 6/8/2016 Analyzed: 6/9/2016					
1,2,4-Trichlorobenzene	1.11		0.333	mg/Kg wet	1.67		67	34-117	16	30
1,2-Dichlorobenzene	1.19		0.333	mg/Kg wet	1.67		71	38-111	17	30
1,3-Dichlorobenzene	1.11		0.333	mg/Kg wet	1.67		67	37-111	19	30
1,4-Dichlorobenzene	1.07		0.333	mg/Kg wet	1.67		64	37-111	18	30
1-Methylnaphthalene	1.34		0.333	mg/Kg wet	1.67		81	39-116	9	30
2,4,5-Trichlorophenol	1.02		0.333	mg/Kg wet	1.67		61	39-125	24	30
2,4,6-Trichlorophenol	1.07		0.333	mg/Kg wet	1.67		64	42-125	26	30
2,4-Dichlorophenol	1.14		0.333	mg/Kg wet	1.67		68	38-120	19	30
2,4-Dimethylphenol	1.32		0.333	mg/Kg wet	1.67		79	39-117	17	30
2,4-Dinitrophenol	0.529	J	0.666	mg/Kg wet	1.67		32	13-152	5	30
2,4-Dinitrotoluene	1.44		0.333	mg/Kg wet	1.67		87	41-128	18	30
2,6-Dinitrotoluene	1.34		0.333	mg/Kg wet	1.67		81	42-127	19	30
2-Chloronaphthalene	1.09		0.333	mg/Kg wet	1.67		66	40-118	25	30
2-Chlorophenol	1.34		0.333	mg/Kg wet	1.67		80	41-108	18	30
2-Methylnaphthalene	1.30		0.333	mg/Kg wet	1.67		78	37-112	13	30
2-Methylphenol	1.40		0.666	mg/Kg wet	1.67		84	36-105	19	30
2-Nitroaniline	1.41		0.333	mg/Kg wet	1.67		84	34-121	20	30
2-Nitrophenol	0.964		0.666	mg/Kg wet	1.67		58	38-125	29	30
3&4-Methylphenol	1.43		0.833	mg/Kg wet	1.67		86	35-96	18	30
3-Nitroaniline	1.36		0.333	mg/Kg wet	1.67		82	42-123	18	30
4,6-dinitro-2-methyl phenol	0.901		0.333	mg/Kg wet	1.67		54	12-157	30	30
4-Bromophenyl-phenylether	1.18		0.333	mg/Kg wet	1.67		71	40-126	20	30
4-chloro-3-methylphenol	1.42		0.333	mg/Kg wet	1.67		85	40-119	14	30
4-Nitroaniline	1.32		0.666	mg/Kg wet	1.67		79	42-125	6	30
4-Nitrophenol	1.00		0.666	mg/Kg wet	1.67		60	14-82	17	30
Acenaphthene	1.18		0.333	mg/Kg wet	1.67		71	41-116	20	30
Acenaphthylene	1.22		0.333	mg/Kg wet	1.67		73	42-126	24	30
Aniline (Phenylamine, Aminobenzene)	1.70	X	0.333	mg/Kg wet	1.67		102	31-100	5	30
Anthracene	1.49		0.333	mg/Kg wet	1.67		90	39-127	24	30
Benzo(a)anthracene	1.49		0.333	mg/Kg wet	1.67		89	40-129	23	30
Benzo(a)pyrene	1.78		0.333	mg/Kg wet	1.67		107	36-141	26	30
Benzo(b)fluoranthene	1.52	X	0.333	mg/Kg wet	1.67		91	34-139	36	30
Benzo(g,h,i)perylene	1.66		0.333	mg/Kg wet	1.67		100	32-141	26	30
Benzo(k)fluoranthene	1.73		0.333	mg/Kg wet	1.67		104	31-139	12	30
Benzyl Alcohol	1.06		0.333	mg/Kg wet	1.67		64	37-102	6	30
Butyl Benzyl Phthalate	1.29		0.333	mg/Kg wet	1.67		78	44-133	20	30
bis(2-chloroethoxy) methane	1.25		0.333	mg/Kg wet	1.67		75	36-113	18	30
bis(2-chloroethyl) ether	1.25		0.333	mg/Kg wet	1.67		75	38-111	24	30
bis(2-chloroisopropyl) ether	1.82		0.333	mg/Kg wet	1.67		109	32-110	0.2	30
bis(2-ethylhexyl) phthalate	1.31		0.333	mg/Kg wet	1.67		79	44-136	19	30
Chrysene	1.46		0.333	mg/Kg wet	1.67		88	41-124	22	30

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0204 (Continued)										
LCS Dup (B6F0204-BSD1)					Prepared: 6/8/2016 Analyzed: 6/9/2016					
Dibenz(a,h)Anthracene	1.73		0.333	mg/Kg wet	1.67		104	35-143	28	30
Dibenzofuran	1.27		0.333	mg/Kg wet	1.67		76	41-119	17	30
Diethyl Phthalate	1.42		0.333	mg/Kg wet	1.67		85	41-125	15	30
Dimethyl Phthalate	1.34		0.333	mg/Kg wet	1.67		81	42-123	15	30
di-n-Butyl Phthalate	1.45		0.333	mg/Kg wet	1.67		87	41-133	16	30
di-n-Octyl Phthalate	1.41		0.333	mg/Kg wet	1.67		84	34-145	21	30
Fluoranthene	1.67		0.333	mg/Kg wet	1.67		100	38-132	18	30
Fluorene	1.39		0.333	mg/Kg wet	1.67		83	41-121	19	30
Hexachlorobenzene	1.15		0.333	mg/Kg wet	1.67		69	39-128	24	30
Hexachlorobutadiene	1.00		0.333	mg/Kg wet	1.67		60	31-120	13	30
Hexachlorocyclopentadiene	1.06		0.333	mg/Kg wet	1.67		63	15-117	26	30
Hexachloroethane	1.18		0.333	mg/Kg wet	1.67		71	0-200	17	30
Indeno(1,2,3-cd)pyrene	1.70		0.333	mg/Kg wet	1.67		102	27-160	29	30
Isophorone	1.87		0.333	mg/Kg wet	1.67		112	40-115	4	30
Naphthalene	1.19		0.333	mg/Kg wet	1.67		71	37-113	14	30
Nitrobenzene	1.19		0.333	mg/Kg wet	1.67		71	37-114	15	30
N-Nitrosodimethylamine	1.11		0.333	mg/Kg wet	1.67		67	28-76	25	30
N-Nitrosodi-n-Propylamine	1.86		0.333	mg/Kg wet	1.67		112	38-117	3	30
N-Nitrosodiphenylamine	1.64		0.333	mg/Kg wet	1.67		98	40-127	22	30
Pentachlorophenol	0.827		0.666	mg/Kg wet	1.67		50	10-137	17	30
Phenanthrene	1.36		0.333	mg/Kg wet	1.67		81	50-115	21	30
Phenol	1.55	X	0.333	mg/Kg wet	1.67		93	24-85	20	30
Pyrene	1.37		0.333	mg/Kg wet	1.67		82	21-100	25	30
Surrogate: 2,4,6-Tribromophenol (A-SUR)			*2.29*	*mg/Kg wet*	*3.33*		*69*	*19-122*		
Surrogate: 2-Fluorobiphenyl (B-SUR)			*0.995*	*mg/Kg wet*	*1.67*		*60*	*30-115*		
Surrogate: 2-Fluorophenol (A-SUR)			*2.20*	*mg/Kg wet*	*3.33*		*66*	*25-121*		
Surrogate: Nitrobenzene-d5 (B-SUR)			*1.09*	*mg/Kg wet*	*1.67*		*66*	*23-120*		
Surrogate: Phenol-d5 (A-SURR)			*2.83*	*mg/Kg wet*	*3.33*		*85*	*15-110*		
Surrogate: Terphenyl-D14 (B-SUR)			*1.22*	*mg/Kg wet*	*1.67*		*73*	*18-137*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0204 (Continued)										
Matrix Spike (B6F0204-MS1)		**Source: A6F0016-20**			Prepared: 6/8/2016 Analyzed: 6/9/2016					
1,2,4-Trichlorobenzene	1.27		0.404	mg/Kg dry	2.02	ND	63	34-117		
1,2-Dichlorobenzene	1.35		0.404	mg/Kg dry	2.02	ND	67	38-111		
1,3-Dichlorobenzene	1.30		0.404	mg/Kg dry	2.02	ND	64	38-111		
1,4-Dichlorobenzene	1.29		0.404	mg/Kg dry	2.02	ND	64	37-111		
1-Methylnaphthalene	1.52		0.404	mg/Kg dry	2.02	ND	75	39-116		
2,4,5-Trichlorophenol	1.31		0.404	mg/Kg dry	2.02	ND	65	39-125		
2,4,6-Trichlorophenol	1.38		0.404	mg/Kg dry	2.02	ND	68	42-125		
2,4-Dichlorophenol	1.19		0.404	mg/Kg dry	2.02	ND	59	38-120		
2,4-Dimethylphenol	1.41		0.404	mg/Kg dry	2.02	ND	70	39-117		
2,4-Dinitrophenol	1.54		0.808	mg/Kg dry	2.02	ND	76	13-152		
2,4-Dinitrotoluene	2.00		0.404	mg/Kg dry	2.02	ND	99	41-128		
2,6-Dinitrotoluene	1.85		0.404	mg/Kg dry	2.02	ND	92	42-127		
2-Chloronaphthalene	1.44		0.404	mg/Kg dry	2.02	ND	71	40-118		
2-Chlorophenol	1.35		0.404	mg/Kg dry	2.02	ND	67	41-108		
2-Methylnaphthalene	1.47		0.404	mg/Kg dry	2.02	ND	73	37-112		
2-Methylphenol	1.45		0.808	mg/Kg dry	2.02	ND	72	36-105		
2-Nitroaniline	1.78		0.404	mg/Kg dry	2.02	ND	88	34-121		
2-Nitrophenol	1.29		0.808	mg/Kg dry	2.02	ND	64	38-125		
3&4-Methylphenol	1.58		1.01	mg/Kg dry	2.02	ND	78	35-96		
3-Nitroaniline	1.84		0.404	mg/Kg dry	2.02	ND	91	42-123		
4,6-dinitro-2-methyl phenol	1.91		0.404	mg/Kg dry	2.02	ND	95	12-157		
4-Bromophenyl-phenylether	1.58		0.404	mg/Kg dry	2.02	ND	78	40-126		
4-chloro-3-methylphenol	1.57		0.404	mg/Kg dry	2.02	ND	78	40-119		
4-Nitroaniline	1.82		0.808	mg/Kg dry	2.02	ND	90	42-125		
4-Nitrophenol	1.62		0.808	mg/Kg dry	2.02	ND	80	14-82		
Acenaphthene	1.51		0.404	mg/Kg dry	2.02	ND	75	41-116		
Acenaphthylene	1.63		0.404	mg/Kg dry	2.02	ND	81	41-118		
Aniline (Phenylamine, Aminobenzene)	1.94		0.404	mg/Kg dry	2.02	ND	96	31-100		
Anthracene	1.93		0.404	mg/Kg dry	2.02	ND	96	39-127		
Benzo(a)anthracene	1.92		0.404	mg/Kg dry	2.02	ND	95	40-129		
Benzo(a)pyrene	2.34		0.404	mg/Kg dry	2.02	ND	116	36-141		
Benzo(b)fluoranthene	2.30		0.404	mg/Kg dry	2.02	ND	114	34-139		
Benzo(g,h,i)perylene	2.04		0.404	mg/Kg dry	2.02	ND	101	32-141		
Benzo(k)fluoranthene	1.97		0.404	mg/Kg dry	2.02	ND	98	31-139		
Benzyl Alcohol	1.29		0.404	mg/Kg dry	2.02	ND	64	37-102		
Butyl Benzyl Phthalate	1.89		0.404	mg/Kg dry	2.02	ND	93	44-133		
bis(2-chloroethoxy) methane	1.44		0.404	mg/Kg dry	2.02	ND	71	36-113		
bis(2-chloroethyl) ether	1.50		0.404	mg/Kg dry	2.02	ND	74	38-111		
bis(2-chloroisopropyl) ether	2.02		0.404	mg/Kg dry	2.02	ND	100	32-110		
bis(2-ethylhexyl) phthalate	1.87		0.404	mg/Kg dry	2.02	ND	93	44-136		
Chrysene	1.85		0.404	mg/Kg dry	2.02	ND	91	41-124		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0204 (Continued)										
Matrix Spike (B6F0204-MS1)		**Source: A6F0016-20**		Prepared: 6/8/2016 Analyzed: 6/9/2016						
Dibenz(a,h)Anthracene	2.16		0.404	mg/Kg dry	2.02	ND	107	35-143		
Dibenzofuran	1.64		0.404	mg/Kg dry	2.02	ND	81	41-119		
Diethyl Phthalate	1.82		0.404	mg/Kg dry	2.02	ND	90	41-125		
Dimethyl Phthalate	1.75		0.404	mg/Kg dry	2.02	ND	86	42-123		
di-n-Butyl Phthalate	1.94		0.404	mg/Kg dry	2.02	ND	96	41-133		
di-n-Octyl Phthalate	2.10		0.404	mg/Kg dry	2.02	ND	104	34-145		
Fluoranthene	2.13		0.404	mg/Kg dry	2.02	ND	106	38-132		
Fluorene	1.81		0.404	mg/Kg dry	2.02	ND	90	41-121		
Hexachlorobenzene	1.55		0.404	mg/Kg dry	2.02	ND	76	39-128		
Hexachlorobutadiene	1.12		0.404	mg/Kg dry	2.02	ND	55	31-120		
Hexachlorocyclopentadiene	1.40		0.404	mg/Kg dry	2.02	ND	69	15-117		
Hexachloroethane	1.31		0.404	mg/Kg dry	2.02	ND	65	0-200		
Indeno(1,2,3-cd)pyrene	2.16		0.404	mg/Kg dry	2.02	ND	107	27-160		
Isophorone	2.04		0.404	mg/Kg dry	2.02	ND	101	40-115		
Naphthalene	1.38		0.404	mg/Kg dry	2.02	ND	68	37-113		
Nitrobenzene	1.34		0.404	mg/Kg dry	2.02	ND	66	37-114		
N-Nitrosodimethylamine	1.35		0.404	mg/Kg dry	2.02	ND	67	28-76		
N-Nitrosodi-n-Propylamine	2.07		0.404	mg/Kg dry	2.02	ND	102	38-117		
N-Nitrosodiphenylamine	2.22		0.404	mg/Kg dry	2.02	ND	110	40-127		
Pentachlorophenol	1.44		0.808	mg/Kg dry	2.02	ND	71	10-137		
Phenanthrene	1.78		0.404	mg/Kg dry	2.02	ND	88	50-115		
Phenol	1.61		0.404	mg/Kg dry	2.02	ND	80	24-85		
Pyrene	1.85		0.404	mg/Kg dry	2.02	ND	91	21-100		
Surrogate: 2,4,6-Tribromophenol (A-SUR)			*3.19*	*mg/Kg dry*	*4.04*		*79*	*19-122*		
Surrogate: 2-Fluorobiphenyl (B-SUR)			*1.25*	*mg/Kg dry*	*2.02*		*62*	*30-115*		
Surrogate: 2-Fluorophenol (A-SUR)			*2.24*	*mg/Kg dry*	*4.04*		*55*	*25-121*		
Surrogate: Nitrobenzene-d5 (B-SUR)			*1.29*	*mg/Kg dry*	*2.02*		*64*	*23-120*		
Surrogate: Phenol-d5 (A-SURR)			*2.77*	*mg/Kg dry*	*4.04*		*68*	*15-110*		
Surrogate: Terphenyl-D14 (B-SUR)			*1.67*	*mg/Kg dry*	*2.02*		*83*	*18-137*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0204 (Continued)										
Matrix Spike Dup (B6F0204-MSD1)		**Source: A6F0016-20**		Prepared: 6/8/2016 Analyzed: 6/9/2016						
1,2,4-Trichlorobenzene	1.48		0.402	mg/Kg dry	2.01	ND	74	34-117	16	30
1,2-Dichlorobenzene	1.53		0.402	mg/Kg dry	2.01	ND	76	38-111	13	30
1,3-Dichlorobenzene	1.50		0.402	mg/Kg dry	2.01	ND	75	38-111	14	30
1,4-Dichlorobenzene	1.46		0.402	mg/Kg dry	2.01	ND	73	37-111	12	30
1-Methylnaphthalene	1.68		0.402	mg/Kg dry	2.01	ND	84	39-116	10	30
2,4,5-Trichlorophenol	1.38		0.402	mg/Kg dry	2.01	ND	69	39-125	5	30
2,4,6-Trichlorophenol	1.47		0.402	mg/Kg dry	2.01	ND	73	42-125	7	30
2,4-Dichlorophenol	1.45		0.402	mg/Kg dry	2.01	ND	72	38-120	20	30
2,4-Dimethylphenol	1.55		0.402	mg/Kg dry	2.01	ND	77	39-117	9	30
2,4-Dinitrophenol	1.57		0.804	mg/Kg dry	2.01	ND	78	13-152	2	30
2,4-Dinitrotoluene	1.99		0.402	mg/Kg dry	2.01	ND	99	41-128	0.3	30
2,6-Dinitrotoluene	1.80		0.402	mg/Kg dry	2.01	ND	90	42-127	3	30
2-Chloronaphthalene	1.58		0.402	mg/Kg dry	2.01	ND	79	40-118	9	30
2-Chlorophenol	1.58		0.402	mg/Kg dry	2.01	ND	79	41-108	16	30
2-Methylnaphthalene	1.68		0.402	mg/Kg dry	2.01	ND	84	37-112	13	30
2-Methylphenol	1.70		0.804	mg/Kg dry	2.01	ND	84	36-105	16	30
2-Nitroaniline	1.92		0.402	mg/Kg dry	2.01	ND	95	34-121	8	30
2-Nitrophenol	1.49		0.804	mg/Kg dry	2.01	ND	74	38-125	14	30
3&4-Methylphenol	1.84		1.01	mg/Kg dry	2.01	ND	91	35-96	15	30
3-Nitroaniline	1.88		0.402	mg/Kg dry	2.01	ND	93	42-123	2	30
4,6-dinitro-2-methyl phenol	1.97		0.402	mg/Kg dry	2.01	ND	98	12-157	3	30
4-Bromophenyl-phenylether	1.76		0.402	mg/Kg dry	2.01	ND	87	40-126	11	30
4-chloro-3-methylphenol	1.63		0.402	mg/Kg dry	2.01	ND	81	40-119	4	30
4-Nitroaniline	1.75		0.804	mg/Kg dry	2.01	ND	87	42-125	4	30
4-Nitrophenol	1.57		0.804	mg/Kg dry	2.01	ND	78	14-82	3	30
Acenaphthene	1.62		0.402	mg/Kg dry	2.01	ND	80	41-116	7	30
Acenaphthylene	1.66		0.402	mg/Kg dry	2.01	ND	82	41-118	2	30
Aniline (Phenylamine, Aminobenzene)	2.22	X	0.402	mg/Kg dry	2.01	ND	110	31-100	13	30
Anthracene	2.05		0.402	mg/Kg dry	2.01	ND	102	39-127	6	30
Benzo(a)anthracene	1.97		0.402	mg/Kg dry	2.01	ND	98	40-129	2	30
Benzo(a)pyrene	2.42		0.402	mg/Kg dry	2.01	ND	120	36-141	3	30
Benzo(b)fluoranthene	2.35		0.402	mg/Kg dry	2.01	ND	117	34-139	2	30
Benzo(g,h,i)perylene	2.12		0.402	mg/Kg dry	2.01	ND	105	32-141	4	30
Benzo(k)fluoranthene	2.09		0.402	mg/Kg dry	2.01	ND	104	31-139	6	30
Benzyl Alcohol	1.55		0.402	mg/Kg dry	2.01	ND	77	37-102	18	30
Butyl Benzyl Phthalate	1.98		0.402	mg/Kg dry	2.01	ND	99	44-133	5	30
bis(2-chloroethoxy) methane	1.64		0.402	mg/Kg dry	2.01	ND	81	36-113	12	30
bis(2-chloroethyl) ether	1.78		0.402	mg/Kg dry	2.01	ND	89	38-111	17	30
bis(2-chloroisopropyl) ether	2.30	X	0.402	mg/Kg dry	2.01	ND	114	32-110	13	30
bis(2-ethylhexyl) phthalate	1.88		0.402	mg/Kg dry	2.01	ND	94	44-136	0.5	30
Chrysene	1.87		0.402	mg/Kg dry	2.01	ND	93	41-124	1	30

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0204 (Continued)										
Matrix Spike Dup (B6F0204-MSD1)		**Source: A6F0016-20**		Prepared: 6/8/2016 Analyzed: 6/9/2016						
Dibenz(a,h)Anthracene	2.32		0.402	mg/Kg dry	2.01	ND	115	35-143	7	30
Dibenzofuran	1.70		0.402	mg/Kg dry	2.01	ND	84	41-119	3	30
Diethyl Phthalate	1.90		0.402	mg/Kg dry	2.01	ND	94	41-125	4	30
Dimethyl Phthalate	1.79		0.402	mg/Kg dry	2.01	ND	89	42-123	3	30
di-n-Butyl Phthalate	2.05		0.402	mg/Kg dry	2.01	ND	102	41-133	6	30
di-n-Octyl Phthalate	2.15		0.402	mg/Kg dry	2.01	ND	107	34-145	3	30
Fluoranthene	2.13		0.402	mg/Kg dry	2.01	ND	106	38-132	0.2	30
Fluorene	1.79		0.402	mg/Kg dry	2.01	ND	89	41-121	1	30
Hexachlorobenzene	1.70		0.402	mg/Kg dry	2.01	ND	85	39-128	10	30
Hexachlorobutadiene	1.31		0.402	mg/Kg dry	2.01	ND	65	31-120	16	30
Hexachlorocyclopentadiene	1.67		0.402	mg/Kg dry	2.01	ND	83	15-117	18	30
Hexachloroethane	1.52		0.402	mg/Kg dry	2.01	ND	75	0-200	14	30
Indeno(1,2,3-cd)pyrene	2.26		0.402	mg/Kg dry	2.01	ND	112	27-160	5	30
Isophorone	2.19		0.402	mg/Kg dry	2.01	ND	109	40-115	7	30
Naphthalene	1.55		0.402	mg/Kg dry	2.01	ND	77	37-113	11	30
Nitrobenzene	1.51		0.402	mg/Kg dry	2.01	ND	75	37-114	12	30
N-Nitrosodimethylamine	1.51		0.402	mg/Kg dry	2.01	ND	75	28-76	12	30
N-Nitrosodi-n-Propylamine	2.34		0.402	mg/Kg dry	2.01	ND	116	38-117	12	30
N-Nitrosodiphenylamine	2.43		0.402	mg/Kg dry	2.01	ND	120	40-127	9	30
Pentachlorophenol	1.54		0.804	mg/Kg dry	2.01	ND	77	10-137	7	30
Phenanthrene	1.90		0.402	mg/Kg dry	2.01	ND	94	50-115	6	30
Phenol	1.78	X	0.402	mg/Kg dry	2.01	ND	88	24-85	10	30
Pyrene	1.95		0.402	mg/Kg dry	2.01	ND	97	21-100	5	30
Surrogate: 2,4,6-Tribromophenol (A-SUR)			*3.40*	*mg/Kg dry*	*4.03*		*84*	*19-122*		
Surrogate: 2-Fluorobiphenyl (B-SUR)			*1.36*	*mg/Kg dry*	*2.01*		*68*	*30-115*		
Surrogate: 2-Fluorophenol (A-SUR)			*2.64*	*mg/Kg dry*	*4.03*		*66*	*25-121*		
Surrogate: Nitrobenzene-d5 (B-SUR)			*1.46*	*mg/Kg dry*	*2.01*		*73*	*23-120*		
Surrogate: Phenol-d5 (A-SURR)			*3.20*	*mg/Kg dry*	*4.03*		*79*	*15-110*		
Surrogate: Terphenyl-D14 (B-SUR)			*1.69*	*mg/Kg dry*	*2.01*		*84*	*18-137*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0216										
Blank (B6F0216-BLK1)					Prepared & Analyzed: 6/9/2016					
1,2,4-Trichlorobenzene	ND	U	0.333	mg/Kg wet						
1,2-Dichlorobenzene	ND	U	0.333	mg/Kg wet						
1,3-Dichlorobenzene	ND	U	0.333	mg/Kg wet						
1,4-Dichlorobenzene	ND	U	0.333	mg/Kg wet						
1-Methylnaphthalene	ND	U	0.333	mg/Kg wet						
2,4,5-Trichlorophenol	ND	U	0.333	mg/Kg wet						
2,4,6-Trichlorophenol	ND	U	0.333	mg/Kg wet						
2,4-Dichlorophenol	ND	U	0.333	mg/Kg wet						
2,4-Dimethylphenol	ND	U	0.333	mg/Kg wet						
2,4-Dinitrophenol	ND	U	0.666	mg/Kg wet						
2,4-Dinitrotoluene	ND	U	0.333	mg/Kg wet						
2,6-Dinitrotoluene	ND	U	0.333	mg/Kg wet						
2-Chloronaphthalene	ND	U	0.333	mg/Kg wet						
2-Chlorophenol	ND	U	0.333	mg/Kg wet						
2-Methylnaphthalene	ND	U	0.333	mg/Kg wet						
2-Methylphenol	ND	U	0.666	mg/Kg wet						
2-Nitroaniline	ND	U	0.333	mg/Kg wet						
2-Nitrophenol	ND	U	0.666	mg/Kg wet						
3&4-Methylphenol	ND	U	0.833	mg/Kg wet						
3,3-Dichlorobenzidine	ND	U	0.333	mg/Kg wet						
3-Nitroaniline	ND	U	0.333	mg/Kg wet						
4,6-dinitro-2-methyl phenol	ND	U	0.333	mg/Kg wet						
4-Bromophenyl-phenylether	ND	U	0.333	mg/Kg wet						
4-chloro-3-methylphenol	ND	U	0.333	mg/Kg wet						
4-Nitroaniline	ND	U	0.666	mg/Kg wet						
4-Nitrophenol	ND	U	0.666	mg/Kg wet						
Acenaphthene	ND	U	0.333	mg/Kg wet						
Acenaphthylene	ND	U	0.333	mg/Kg wet						
Aniline (Phenylamine, Aminobenzene)	ND	U	0.333	mg/Kg wet						
Anthracene	ND	U	0.333	mg/Kg wet						
Benzo(a)anthracene	ND	U	0.333	mg/Kg wet						
Benzo(a)pyrene	ND	U	0.333	mg/Kg wet						
Benzo(b)fluoranthene	ND	U	0.333	mg/Kg wet						
Benzo(g,h,i)perylene	ND	U	0.333	mg/Kg wet						
Benzo(k)fluoranthene	ND	U	0.333	mg/Kg wet						
Benzoic Acid	ND	U	0.666	mg/Kg wet						
Benzyl Alcohol	ND	U	0.333	mg/Kg wet						
Butyl Benzyl Phthalate	ND	U	0.333	mg/Kg wet						
bis(2-chloroethoxy) methane	ND	U	0.333	mg/Kg wet						
bis(2-chloroethyl) ether	ND	U	0.333	mg/Kg wet						
bis(2-chloroisopropyl) ether	ND	U	0.333	mg/Kg wet						

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0216 (Continued)										
Blank (B6F0216-BLK1)					Prepared & Analyzed: 6/9/2016					
bis(2-ethylhexyl) phthalate	ND	U	0.333	mg/Kg wet						
Chrysene	ND	U	0.333	mg/Kg wet						
Dibenz(a,h)Anthracene	ND	U	0.333	mg/Kg wet						
Dibenzofuran	ND	U	0.333	mg/Kg wet						
Diethyl Phthalate	ND	U	0.333	mg/Kg wet						
Dimethyl Phthalate	ND	U	0.333	mg/Kg wet						
di-n-Butyl Phthalate	ND	U	0.333	mg/Kg wet						
di-n-Octyl Phthalate	ND	U	0.333	mg/Kg wet						
Fluoranthene	ND	U	0.333	mg/Kg wet						
Fluorene	ND	U	0.333	mg/Kg wet						
Hexachlorobenzene	ND	U	0.333	mg/Kg wet						
Hexachlorobutadiene	ND	U	0.333	mg/Kg wet						
Hexachlorocyclopentadiene	ND	U	0.333	mg/Kg wet						
Hexachloroethane	ND	U	0.333	mg/Kg wet						
Indeno(1,2,3-cd)pyrene	ND	U	0.333	mg/Kg wet						
Isophorone	ND	U	0.333	mg/Kg wet						
Naphthalene	ND	U	0.333	mg/Kg wet						
Nitrobenzene	ND	U	0.333	mg/Kg wet						
N-Nitrosodimethylamine	ND	U	0.333	mg/Kg wet						
N-Nitrosodi-n-Propylamine	ND	U	0.333	mg/Kg wet						
N-Nitrosodiphenylamine	ND	U	0.333	mg/Kg wet						
Pentachlorophenol	ND	U	0.666	mg/Kg wet						
Phenanthrene	ND	U	0.333	mg/Kg wet						
Phenol	ND	U	0.333	mg/Kg wet						
Pyrene	ND	U	0.333	mg/Kg wet						
Surrogate: 2,4,6-Tribromophenol (A-SUR)			*2.76*	*mg/Kg wet*	*3.33*		*83*	*19-122*		
Surrogate: 2-Fluorobiphenyl (B-SUR)			*1.24*	*mg/Kg wet*	*1.67*		*74*	*30-115*		
Surrogate: 2-Fluorophenol (A-SUR)			*2.90*	*mg/Kg wet*	*3.33*		*87*	*25-121*		
Surrogate: Nitrobenzene-d5 (B-SUR)			*1.13*	*mg/Kg wet*	*1.67*		*68*	*23-120*		
Surrogate: Phenol-d5 (A-SURR)			*3.00*	*mg/Kg wet*	*3.33*		*90*	*15-110*		
Surrogate: Terphenyl-D14 (B-SUR)			*1.38*	*mg/Kg wet*	*1.67*		*83*	*18-137*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0216 (Continued)										
LCS (B6F0216-BS1)					Prepared & Analyzed: 6/9/2016					
1,2,4-Trichlorobenzene	1.07		0.333	mg/Kg wet	1.67		64	34-117		
1,2-Dichlorobenzene	1.18		0.333	mg/Kg wet	1.67		71	38-111		
1,3-Dichlorobenzene	1.04		0.333	mg/Kg wet	1.67		63	37-111		
1,4-Dichlorobenzene	1.05		0.333	mg/Kg wet	1.67		63	37-111		
1-Methylnaphthalene	1.46		0.333	mg/Kg wet	1.67		88	39-116		
2,4,5-Trichlorophenol	1.23		0.333	mg/Kg wet	1.67		74	39-125		
2,4,6-Trichlorophenol	1.33		0.333	mg/Kg wet	1.67		80	42-125		
2,4-Dichlorophenol	1.55		0.333	mg/Kg wet	1.67		93	38-120		
2,4-Dimethylphenol	1.72		0.333	mg/Kg wet	1.67		103	39-117		
2,4-Dinitrophenol	0.688		0.666	mg/Kg wet	1.67		41	13-152		
2,4-Dinitrotoluene	1.62		0.333	mg/Kg wet	1.67		97	41-128		
2,6-Dinitrotoluene	1.57		0.333	mg/Kg wet	1.67		94	42-127		
2-Chloronaphthalene	1.24		0.333	mg/Kg wet	1.67		74	40-118		
2-Chlorophenol	1.98	X	0.333	mg/Kg wet	1.67		119	41-108		
2-Methylnaphthalene	1.42		0.333	mg/Kg wet	1.67		85	37-112		
2-Methylphenol	2.15	X	0.666	mg/Kg wet	1.67		129	36-105		
2-Nitroaniline	1.67		0.333	mg/Kg wet	1.67		100	34-121		
2-Nitrophenol	1.24		0.666	mg/Kg wet	1.67		75	38-125		
3&4-Methylphenol	2.27	X	0.833	mg/Kg wet	1.67		136	35-96		
3-Nitroaniline	1.61		0.333	mg/Kg wet	1.67		97	42-123		
4,6-dinitro-2-methyl phenol	1.16		0.333	mg/Kg wet	1.67		70	12-157		
4-Bromophenyl-phenylether	1.33		0.333	mg/Kg wet	1.67		80	40-126		
4-chloro-3-methylphenol	1.78		0.333	mg/Kg wet	1.67		107	40-119		
4-Nitroaniline	1.50		0.666	mg/Kg wet	1.67		90	42-125		
4-Nitrophenol	0.971		0.666	mg/Kg wet	1.67		58	14-82		
Acenaphthene	1.34		0.333	mg/Kg wet	1.67		80	41-116		
Acenaphthylene	1.42		0.333	mg/Kg wet	1.67		85	42-126		
Aniline (Phenylamine, Aminobenzene)	2.04	X	0.333	mg/Kg wet	1.67		122	31-100		
Anthracene	1.51		0.333	mg/Kg wet	1.67		91	39-127		
Benzo(a)anthracene	1.43		0.333	mg/Kg wet	1.67		86	40-129		
Benzo(a)pyrene	1.68		0.333	mg/Kg wet	1.67		101	36-141		
Benzo(b)fluoranthene	1.71		0.333	mg/Kg wet	1.67		103	34-139		
Benzo(g,h,i)perylene	1.53		0.333	mg/Kg wet	1.67		92	32-141		
Benzo(k)fluoranthene	1.45		0.333	mg/Kg wet	1.67		87	31-139		
Benzyl Alcohol	1.62		0.333	mg/Kg wet	1.67		97	37-102		
Butyl Benzyl Phthalate	1.47		0.333	mg/Kg wet	1.67		88	44-133		
bis(2-chloroethoxy) methane	1.53		0.333	mg/Kg wet	1.67		92	36-113		
bis(2-chloroethyl) ether	1.64		0.333	mg/Kg wet	1.67		98	38-111		
bis(2-chloroisopropyl) ether	2.20	X	0.333	mg/Kg wet	1.67		132	32-110		
bis(2-ethylhexyl) phthalate	1.42		0.333	mg/Kg wet	1.67		85	44-136		
Chrysene	1.34		0.333	mg/Kg wet	1.67		80	41-124		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0216 (Continued)										
LCS (B6F0216-BS1)					Prepared & Analyzed: 6/9/2016					
Dibenz(a,h)Anthracene	1.56		0.333	mg/Kg wet	1.67		94	35-143		
Dibenzofuran	1.42		0.333	mg/Kg wet	1.67		85	41-119		
Diethyl Phthalate	1.57		0.333	mg/Kg wet	1.67		94	41-125		
Dimethyl Phthalate	1.51		0.333	mg/Kg wet	1.67		90	42-123		
di-n-Butyl Phthalate	1.52		0.333	mg/Kg wet	1.67		91	41-133		
di-n-Octyl Phthalate	1.51		0.333	mg/Kg wet	1.67		91	34-145		
Fluoranthene	1.61		0.333	mg/Kg wet	1.67		97	38-132		
Fluorene	1.51		0.333	mg/Kg wet	1.67		90	41-121		
Hexachlorobenzene	1.23		0.333	mg/Kg wet	1.67		74	39-128		
Hexachlorobutadiene	0.875		0.333	mg/Kg wet	1.67		52	31-120		
Hexachlorocyclopentadiene	1.10		0.333	mg/Kg wet	1.67		66	15-117		
Hexachloroethane	1.09		0.333	mg/Kg wet	1.67		65	0-200		
Indeno(1,2,3-cd)pyrene	1.61		0.333	mg/Kg wet	1.67		97	27-160		
Isophorone	2.20	X	0.333	mg/Kg wet	1.67		132	40-115		
Naphthalene	1.22		0.333	mg/Kg wet	1.67		73	37-113		
Nitrobenzene	1.28		0.333	mg/Kg wet	1.67		77	37-114		
N-Nitrosodimethylamine	1.63	X	0.333	mg/Kg wet	1.67		98	28-76		
N-Nitrosodi-n-Propylamine	2.54	X	0.333	mg/Kg wet	1.67		152	38-117		
N-Nitrosodiphenylamine	1.84		0.333	mg/Kg wet	1.67		110	40-127		
Pentachlorophenol	0.927		0.666	mg/Kg wet	1.67		56	10-137		
Phenanthrene	1.41		0.333	mg/Kg wet	1.67		85	50-115		
Phenol	2.27	X	0.333	mg/Kg wet	1.67		136	24-85		
Pyrene	1.41		0.333	mg/Kg wet	1.67		85	21-100		
Surrogate: 2,4,6-Tribromophenol (A-SUR)			*2.53*	*mg/Kg wet*	*3.33*		*76*	*19-122*		
Surrogate: 2-Fluorobiphenyl (B-SUR)			*1.08*	*mg/Kg wet*	*1.67*		*65*	*30-115*		
Surrogate: 2-Fluorophenol (A-SUR)			*3.36*	*mg/Kg wet*	*3.33*		*101*	*25-121*		
Surrogate: Nitrobenzene-d5 (B-SUR)			*1.23*	*mg/Kg wet*	*1.67*		*74*	*23-120*		
Surrogate: Phenol-d5 (A-SURR)		*X*	*4.22*	*mg/Kg wet*	*3.33*		*126*	*15-110*		
Surrogate: Terphenyl-D14 (B-SUR)			*1.17*	*mg/Kg wet*	*1.67*		*70*	*18-137*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0216 (Continued)										
LCS Dup (B6F0216-BSD1)					Prepared & Analyzed: 6/9/2016					
Surrogate: Terphenyl-D14 (B-SUR)			*1.17*	*mg/Kg wet*	*1.67*		*70*	*18-137*		
Matrix Spike (B6F0216-MS1)		**Source: A6F0016-21**			Prepared: 6/9/2016 Analyzed: 6/10/2016					
1,2,4-Trichlorobenzene	1.30		0.429	mg/Kg dry	2.15	ND	61	34-117		
1,2-Dichlorobenzene	1.37		0.429	mg/Kg dry	2.15	ND	64	38-111		
1,3-Dichlorobenzene	1.32		0.429	mg/Kg dry	2.15	ND	62	38-111		
1,4-Dichlorobenzene	1.21		0.429	mg/Kg dry	2.15	ND	56	37-111		
1-Methylnaphthalene	1.53		0.429	mg/Kg dry	2.15	ND	71	39-116		
2,4,5-Trichlorophenol	1.31		0.429	mg/Kg dry	2.15	ND	61	39-125		
2,4,6-Trichlorophenol	1.32		0.429	mg/Kg dry	2.15	ND	61	42-125		
2,4-Dichlorophenol	1.25		0.429	mg/Kg dry	2.15	ND	58	38-120		
2,4-Dimethylphenol	1.40		0.429	mg/Kg dry	2.15	ND	65	39-117		
2,4-Dinitrophenol	1.12		0.859	mg/Kg dry	2.15	ND	52	13-152		
2,4-Dinitrotoluene	1.99		0.429	mg/Kg dry	2.15	ND	92	41-128		
2,6-Dinitrotoluene	1.72		0.429	mg/Kg dry	2.15	ND	80	42-127		
2-Chloronaphthalene	1.41		0.429	mg/Kg dry	2.15	ND	66	40-118		
2-Chlorophenol	1.42		0.429	mg/Kg dry	2.15	ND	66	41-108		
2-Methylnaphthalene	1.52		0.429	mg/Kg dry	2.15	ND	71	37-112		
2-Methylphenol	1.55		0.859	mg/Kg dry	2.15	ND	72	36-105		
2-Nitroaniline	1.73		0.429	mg/Kg dry	2.15	ND	80	34-121		
2-Nitrophenol	1.24		0.859	mg/Kg dry	2.15	ND	57	38-125		
3&4-Methylphenol	1.63		1.07	mg/Kg dry	2.15	ND	76	35-96		
3-Nitroaniline	1.83		0.429	mg/Kg dry	2.15	ND	85	42-123		
4,6-dinitro-2-methyl phenol	1.78		0.429	mg/Kg dry	2.15	ND	83	12-157		
4-Bromophenyl-phenylether	1.55		0.429	mg/Kg dry	2.15	ND	72	40-126		
4-chloro-3-methylphenol	1.56		0.429	mg/Kg dry	2.15	ND	73	40-119		
4-Nitroaniline	1.90		0.859	mg/Kg dry	2.15	ND	89	42-125		
4-Nitrophenol	1.50		0.859	mg/Kg dry	2.15	ND	70	14-82		
Acenaphthene	1.47		0.429	mg/Kg dry	2.15	ND	68	41-116		
Acenaphthylene	1.54		0.429	mg/Kg dry	2.15	ND	72	41-118		
Aniline (Phenylamine, Aminobenzene)	1.84		0.429	mg/Kg dry	2.15	ND	86	31-100		
Anthracene	1.92		0.429	mg/Kg dry	2.15	ND	89	39-127		
Benzo(a)anthracene	2.02		0.429	mg/Kg dry	2.15	ND	94	40-129		
Benzo(a)pyrene	2.43		0.429	mg/Kg dry	2.15	ND	113	36-141		
Benzo(b)fluoranthene	2.38		0.429	mg/Kg dry	2.15	ND	111	34-139		
Benzo(g,h,i)perylene	2.13		0.429	mg/Kg dry	2.15	ND	99	32-141		
Benzo(k)fluoranthene	2.03		0.429	mg/Kg dry	2.15	ND	94	31-139		
Benzyl Alcohol	1.38		0.429	mg/Kg dry	2.15	ND	64	37-102		
Butyl Benzyl Phthalate	2.01		0.429	mg/Kg dry	2.15	ND	94	44-133		
bis(2-chloroethoxy) methane	1.42		0.429	mg/Kg dry	2.15	ND	66	36-113		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0216 (Continued)										
Matrix Spike (B6F0216-MS1)		**Source: A6F0016-21**		Prepared: 6/9/2016 Analyzed: 6/10/2016						
bis(2-chloroethyl) ether	1.53		0.429	mg/Kg dry	2.15	ND	71	38-111		
bis(2-chloroisopropyl) ether	2.08		0.429	mg/Kg dry	2.15	ND	97	32-110		
bis(2-ethylhexyl) phthalate	1.97		0.429	mg/Kg dry	2.15	ND	92	44-136		
Chrysene	1.90		0.429	mg/Kg dry	2.15	ND	88	41-124		
Dibenz(a,h)Anthracene	2.30		0.429	mg/Kg dry	2.15	ND	107	35-143		
Dibenzofuran	1.55		0.429	mg/Kg dry	2.15	ND	72	41-119		
Diethyl Phthalate	1.86		0.429	mg/Kg dry	2.15	ND	87	41-125		
Dimethyl Phthalate	1.63		0.429	mg/Kg dry	2.15	ND	76	42-123		
di-n-Butyl Phthalate	2.11		0.429	mg/Kg dry	2.15	ND	98	41-133		
di-n-Octyl Phthalate	2.29		0.429	mg/Kg dry	2.15	ND	106	34-145		
Fluoranthene	2.24		0.429	mg/Kg dry	2.15	ND	104	38-132		
Fluorene	1.67		0.429	mg/Kg dry	2.15	ND	78	41-121		
Hexachlorobenzene	1.58		0.429	mg/Kg dry	2.15	ND	73	39-128		
Hexachlorobutadiene	1.17		0.429	mg/Kg dry	2.15	ND	54	31-120		
Hexachlorocyclopentadiene	1.41		0.429	mg/Kg dry	2.15	ND	66	15-117		
Hexachloroethane	1.36		0.429	mg/Kg dry	2.15	ND	63	0-200		
Indeno(1,2,3-cd)pyrene	2.29		0.429	mg/Kg dry	2.15	ND	107	27-160		
Isophorone	2.06		0.429	mg/Kg dry	2.15	ND	96	40-115		
Naphthalene	1.40		0.429	mg/Kg dry	2.15	ND	65	37-113		
Nitrobenzene	1.28		0.429	mg/Kg dry	2.15	ND	60	37-114		
N-Nitrosodimethylamine	1.22		0.429	mg/Kg dry	2.15	ND	57	28-76		
N-Nitrosodi-n-Propylamine	2.14		0.429	mg/Kg dry	2.15	ND	99	38-117		
N-Nitrosodiphenylamine	2.16		0.429	mg/Kg dry	2.15	ND	100	40-127		
Pentachlorophenol	1.35		0.859	mg/Kg dry	2.15	ND	63	10-137		
Phenanthrene	1.78		0.429	mg/Kg dry	2.15	ND	83	50-115		
Phenol	1.56		0.429	mg/Kg dry	2.15	ND	73	24-85		
Pyrene	1.94		0.429	mg/Kg dry	2.15	ND	90	21-100		
Surrogate: 2,4,6-Tribromophenol (A-SUR)			*3.03*	*mg/Kg dry*	*4.30*		*70*	*19-122*		
Surrogate: 2-Fluorobiphenyl (B-SUR)			*1.21*	*mg/Kg dry*	*2.15*		*56*	*30-115*		
Surrogate: 2-Fluorophenol (A-SUR)			*1.97*	*mg/Kg dry*	*4.30*		*46*	*25-121*		
Surrogate: Nitrobenzene-d5 (B-SUR)			*1.22*	*mg/Kg dry*	*2.15*		*57*	*23-120*		
Surrogate: Phenol-d5 (A-SURR)			*2.71*	*mg/Kg dry*	*4.30*		*63*	*15-110*		
Surrogate: Terphenyl-D14 (B-SUR)			*1.68*	*mg/Kg dry*	*2.15*		*78*	*18-137*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0216 (Continued)										
Matrix Spike Dup (B6F0216-MSD1)		**Source: A6F0016-21**		Prepared: 6/9/2016 Analyzed: 6/10/2016						
1,2,4-Trichlorobenzene	1.40		0.427	mg/Kg dry	2.14	ND	65	34-117	7	30
1,2-Dichlorobenzene	1.49		0.427	mg/Kg dry	2.14	ND	70	38-111	8	30
1,3-Dichlorobenzene	1.41		0.427	mg/Kg dry	2.14	ND	66	38-111	6	30
1,4-Dichlorobenzene	1.42		0.427	mg/Kg dry	2.14	ND	66	37-111	16	30
1-Methylnaphthalene	1.62		0.427	mg/Kg dry	2.14	ND	76	39-116	6	30
2,4,5-Trichlorophenol	1.49		0.427	mg/Kg dry	2.14	ND	70	39-125	13	30
2,4,6-Trichlorophenol	1.49		0.427	mg/Kg dry	2.14	ND	70	42-125	12	30
2,4-Dichlorophenol	1.43		0.427	mg/Kg dry	2.14	ND	67	38-120	14	30
2,4-Dimethylphenol	1.56		0.427	mg/Kg dry	2.14	ND	73	39-117	11	30
2,4-Dinitrophenol	1.44		0.855	mg/Kg dry	2.14	ND	68	13-152	25	30
2,4-Dinitrotoluene	2.17		0.427	mg/Kg dry	2.14	ND	101	41-128	9	30
2,6-Dinitrotoluene	1.94		0.427	mg/Kg dry	2.14	ND	91	42-127	12	30
2-Chloronaphthalene	1.50		0.427	mg/Kg dry	2.14	ND	70	40-118	6	30
2-Chlorophenol	1.60		0.427	mg/Kg dry	2.14	ND	75	41-108	12	30
2-Methylnaphthalene	1.63		0.427	mg/Kg dry	2.14	ND	76	37-112	7	30
2-Methylphenol	1.66		0.855	mg/Kg dry	2.14	ND	77	36-105	7	30
2-Nitroaniline	2.02		0.427	mg/Kg dry	2.14	ND	94	34-121	16	30
2-Nitrophenol	1.40		0.855	mg/Kg dry	2.14	ND	66	38-125	13	30
3&4-Methylphenol	1.75		1.07	mg/Kg dry	2.14	ND	82	35-96	7	30
3-Nitroaniline	2.03		0.427	mg/Kg dry	2.14	ND	95	42-123	10	30
4,6-dinitro-2-methyl phenol	1.91		0.427	mg/Kg dry	2.14	ND	90	12-157	8	30
4-Bromophenyl-phenylether	1.79		0.427	mg/Kg dry	2.14	ND	84	40-126	15	30
4-chloro-3-methylphenol	1.86		0.427	mg/Kg dry	2.14	ND	87	40-119	18	30
4-Nitroaniline	1.94		0.855	mg/Kg dry	2.14	ND	91	42-125	2	30
4-Nitrophenol	1.66		0.855	mg/Kg dry	2.14	ND	78	14-82	10	30
Acenaphthene	1.64		0.427	mg/Kg dry	2.14	ND	77	41-116	11	30
Acenaphthylene	1.72		0.427	mg/Kg dry	2.14	ND	80	41-118	11	30
Aniline (Phenylamine, Aminobenzene)	2.20	X	0.427	mg/Kg dry	2.14	ND	103	31-100	18	30
Anthracene	2.07		0.427	mg/Kg dry	2.14	ND	97	39-127	8	30
Benzo(a)anthracene	2.05		0.427	mg/Kg dry	2.14	ND	96	40-129	2	30
Benzo(a)pyrene	2.53		0.427	mg/Kg dry	2.14	ND	118	36-141	4	30
Benzo(b)fluoranthene	2.19		0.427	mg/Kg dry	2.14	ND	103	34-139	8	30
Benzo(g,h,i)perylene	2.23		0.427	mg/Kg dry	2.14	ND	104	32-141	5	30
Benzo(k)fluoranthene	2.29		0.427	mg/Kg dry	2.14	ND	107	31-139	12	30
Benzyl Alcohol	1.41		0.427	mg/Kg dry	2.14	ND	66	37-102	2	30
Butyl Benzyl Phthalate	2.02		0.427	mg/Kg dry	2.14	ND	94	44-133	0.6	30
bis(2-chloroethoxy) methane	1.53		0.427	mg/Kg dry	2.14	ND	72	36-113	7	30
bis(2-chloroethyl) ether	1.66		0.427	mg/Kg dry	2.14	ND	78	38-111	8	30
bis(2-chloroisopropyl) ether	2.18		0.427	mg/Kg dry	2.14	ND	102	32-110	5	30
bis(2-ethylhexyl) phthalate	2.00		0.427	mg/Kg dry	2.14	ND	93	44-136	1	30
Chrysene	1.96		0.427	mg/Kg dry	2.14	ND	91	41-124	3	30

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0216 (Continued)										
Matrix Spike Dup (B6F0216-MSD1)		**Source: A6F0016-21**		Prepared: 6/9/2016 Analyzed: 6/10/2016						
Dibenz(a,h)Anthracene	2.41		0.427	mg/Kg dry	2.14	ND	112	35-143	5	30
Dibenzofuran	1.74		0.427	mg/Kg dry	2.14	ND	81	41-119	11	30
Diethyl Phthalate	2.00		0.427	mg/Kg dry	2.14	ND	93	41-125	7	30
Dimethyl Phthalate	1.88		0.427	mg/Kg dry	2.14	ND	88	42-123	14	30
di-n-Butyl Phthalate	2.16		0.427	mg/Kg dry	2.14	ND	101	41-133	2	30
di-n-Octyl Phthalate	2.26		0.427	mg/Kg dry	2.14	ND	106	34-145	1	30
Fluoranthene	2.36		0.427	mg/Kg dry	2.14	ND	110	38-132	5	30
Fluorene	1.87		0.427	mg/Kg dry	2.14	ND	87	41-121	11	30
Hexachlorobenzene	1.76		0.427	mg/Kg dry	2.14	ND	82	39-128	11	30
Hexachlorobutadiene	1.20		0.427	mg/Kg dry	2.14	ND	56	31-120	3	30
Hexachlorocyclopentadiene	1.50		0.427	mg/Kg dry	2.14	ND	70	15-117	6	30
Hexachloroethane	1.46		0.427	mg/Kg dry	2.14	ND	68	0-200	7	30
Indeno(1,2,3-cd)pyrene	2.36		0.427	mg/Kg dry	2.14	ND	110	27-160	3	30
Isophorone	2.22		0.427	mg/Kg dry	2.14	ND	104	40-115	8	30
Naphthalene	1.47		0.427	mg/Kg dry	2.14	ND	69	37-113	5	30
Nitrobenzene	1.47		0.427	mg/Kg dry	2.14	ND	69	37-114	13	30
N-Nitrosodimethylamine	1.53		0.427	mg/Kg dry	2.14	ND	72	28-76	23	30
N-Nitrosodi-n-Propylamine	2.29		0.427	mg/Kg dry	2.14	ND	107	38-117	7	30
N-Nitrosodiphenylamine	2.44		0.427	mg/Kg dry	2.14	ND	114	40-127	12	30
Pentachlorophenol	1.47		0.855	mg/Kg dry	2.14	ND	69	10-137	8	30
Phenanthrene	1.96		0.427	mg/Kg dry	2.14	ND	92	50-115	10	30
Phenol	1.65		0.427	mg/Kg dry	2.14	ND	77	24-85	5	30
Pyrene	1.97		0.427	mg/Kg dry	2.14	ND	92	21-100	2	30
Surrogate: 2,4,6-Tribromophenol (A-SUR)			*3.74*	*mg/Kg dry*	*4.28*		*87*	*19-122*		
Surrogate: 2-Fluorobiphenyl (B-SUR)			*1.36*	*mg/Kg dry*	*2.14*		*64*	*30-115*		
Surrogate: 2-Fluorophenol (A-SUR)			*2.52*	*mg/Kg dry*	*4.28*		*59*	*25-121*		
Surrogate: Nitrobenzene-d5 (B-SUR)			*1.42*	*mg/Kg dry*	*2.14*		*66*	*23-120*		
Surrogate: Phenol-d5 (A-SURR)			*3.44*	*mg/Kg dry*	*4.28*		*80*	*15-110*		
Surrogate: Terphenyl-D14 (B-SUR)			*1.88*	*mg/Kg dry*	*2.14*		*88*	*18-137*		

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

7 RCRA Metals by Method 6010C

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0151										
Blank (B6F0151-BLK1)					Prepared: 6/7/2016 Analyzed: 6/8/2016					
Arsenic	ND	U	5.00	mg/Kg wet						
Barium	ND	U	5.00	mg/Kg wet						
Cadmium	ND	U	5.00	mg/Kg wet						
Chromium	ND	U	5.00	mg/Kg wet						
Lead	ND	U	5.00	mg/Kg wet						
Selenium	ND	U	5.00	mg/Kg wet						
Silver	ND	U	5.00	mg/Kg wet						
LCS (B6F0151-BS1)					Prepared: 6/7/2016 Analyzed: 6/8/2016					
Arsenic	105		5.00	mg/Kg wet	100		105	80-120		
Barium	105		5.00	mg/Kg wet	100		105	80-120		
Cadmium	105		5.00	mg/Kg wet	100		105	80-120		
Chromium	106		5.00	mg/Kg wet	100		106	80-120		
Lead	104		5.00	mg/Kg wet	100		104	80-120		
Selenium	105		5.00	mg/Kg wet	100		105	80-120		
Silver	105		5.00	mg/Kg wet	100		105	80-120		
LCS Dup (B6F0151-BSD1)					Prepared: 6/7/2016 Analyzed: 6/8/2016					
Arsenic	103		5.00	mg/Kg wet	100		103	80-120	1	20
Barium	104		5.00	mg/Kg wet	100		104	80-120	1	20
Cadmium	104		5.00	mg/Kg wet	100		104	80-120	1	20
Chromium	104		5.00	mg/Kg wet	100		104	80-120	1	20
Lead	103		5.00	mg/Kg wet	100		103	80-120	1	20
Selenium	103		5.00	mg/Kg wet	100		103	80-120	2	20
Silver	104		5.00	mg/Kg wet	100		104	80-120	1	20
Duplicate (B6F0151-DUP1)		**Source: A6F0016-01**			Prepared: 6/7/2016 Analyzed: 6/8/2016					
Arsenic	1.25	J	7.21	mg/Kg dry		1.16			7	30
Barium	80.6		7.21	mg/Kg dry		84.5			5	30
Cadmium	2.04	J	7.21	mg/Kg dry		2.07			1	30
Chromium	57.3		7.21	mg/Kg dry		59.4			3	30
Lead	18.1		7.21	mg/Kg dry		18.5			2	30
Selenium	ND	U	7.21	mg/Kg dry		ND				30
Silver	ND	U	7.21	mg/Kg dry		0.0554				30

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

7 RCRA Metals by Method 6010C (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0151 (Continued)										
Matrix Spike (B6F0151-MS1)		**Source: A6F0016-01**			Prepared: 6/7/2016 Analyzed: 6/8/2016					
Arsenic	129		6.83	mg/Kg dry	137	1.16	95	80-120		
Barium	209		6.83	mg/Kg dry	137	84.5	91	80-120		
Cadmium	130		6.83	mg/Kg dry	137	2.07	94	80-120		
Chromium	184		6.83	mg/Kg dry	137	59.4	91	80-120		
Lead	144		6.83	mg/Kg dry	137	18.5	92	80-120		
Selenium	122		6.83	mg/Kg dry	137	ND	89	80-120		
Silver	130		6.83	mg/Kg dry	137	0.0554	95	80-120		
Matrix Spike Dup (B6F0151-MSD1)		**Source: A6F0016-01**			Prepared: 6/7/2016 Analyzed: 6/8/2016					
Arsenic	161	X	7.86	mg/Kg dry	157	1.16	103	80-120	22	20
Barium	248		7.86	mg/Kg dry	157	84.5	104	80-120	17	20
Cadmium	161	X	7.86	mg/Kg dry	157	2.07	101	80-120	21	20
Chromium	218		7.86	mg/Kg dry	157	59.4	101	80-120	17	20
Lead	174		7.86	mg/Kg dry	157	18.5	99	80-120	19	20
Selenium	153	X	7.86	mg/Kg dry	157	ND	97	80-120	23	20
Silver	160	X	7.86	mg/Kg dry	157	0.0554	102	80-120	21	20

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

Total Mercury Analysis by Method 7471A

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0141										
Blank (B6F0141-BLK1)					Prepared: 6/7/2016 Analyzed: 6/9/2016					
Mercury	ND	U	0.100	mg/Kg wet						
LCS (B6F0141-BS1)					Prepared: 6/7/2016 Analyzed: 6/9/2016					
Mercury	0.513		0.100	mg/Kg wet	0.500		103	85-115		
LCS Dup (B6F0141-BSD1)					Prepared: 6/7/2016 Analyzed: 6/9/2016					
Mercury	0.510		0.100	mg/Kg wet	0.500		102	85-115	0.7	20
Duplicate (B6F0141-DUP1)		**Source: A6F0016-01**			Prepared: 6/7/2016 Analyzed: 6/9/2016					
Mercury	ND	U	0.151	mg/Kg dry		ND				20
Matrix Spike (B6F0141-MS1)		**Source: A6F0016-01**			Prepared: 6/7/2016 Analyzed: 6/9/2016					
Mercury	0.677		0.140	mg/Kg dry	0.702	ND	96	85-115		
Matrix Spike Dup (B6F0141-MSD1)		**Source: A6F0016-01**			Prepared: 6/7/2016 Analyzed: 6/9/2016					
Mercury	0.776		0.157	mg/Kg dry	0.786	ND	99	85-115	14	20

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

Quality Control
(Continued)

Percent Moisture by Method 2540G

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0181										
Duplicate (B6F0181-DUP1)		**Source: A6F0011-03**			Prepared: 6/7/2016 Analyzed: 6/8/2016					
% Solids	86.0		0.100	%		86.2			0.2	20
Percent Moisture	14.0		0.100	%		13.8			2	20
Duplicate (B6F0181-DUP2)		**Source: A6F0016-10**			Prepared: 6/7/2016 Analyzed: 6/8/2016					
% Solids	57.9		0.100	%		58.1			0.4	20
Percent Moisture	42.1		0.100	%		41.9			0.6	20
Duplicate (B6F0181-DUP3)		**Source: A6F0016-20**			Prepared: 6/7/2016 Analyzed: 6/8/2016					
% Solids	82.1		0.100	%		82.2			0.1	20
Percent Moisture	17.9		0.100	%		17.8			0.6	20

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

MWBE SDBE
NELAC DoD Accredited

Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/15/2016 14:28

List of Certifications

Number	Description	Code	Facility	Expires
04176	LA CERTIFICATE	LANELAC	FTSA	06/30/2016
483	NC CERTIFICATE	ANC	FTSA	12/31/2016
85	KENTUKY CERTIFICATE	KENTUKY	FTSA	
98015	SC CERTIFICATE	ASC	FTSA	06/30/2016
E84098	FL NELAC CERTIFICATE	LFLNELAC	FTSL	06/30/2016
E87429	FL NELAC CERTIFICATE	AFLNELAC	FTSA	06/30/2016
LI0-135	DoD CERTIFICATE	DOD	FTSA	06/30/2016
P330-07-00105	USDA CERTIFICATE	USDA	FTSA	

Notes and Definitions

Item	Definition
L	The LCS data for this analytical batch was reported below the laboratory control limits for this analyte.
F	RPD Failure in the BKS/BSD.
H	The LCS data for this analytical batch was reported above the laboratory control limits.
X	Reported value failed to meet established QA/QC limits, estimated value
Dry	Sample results reported on a dry weight basis.
U or ND	Analyte NOT DETECTED at or above the reporting limit.
A	Suspected adol-condensation product
B	Analyte detected in the method blank
C	Confirmed by GC/MS analysis
E	Concentration exceeds calibration range
K	Hold Time exceeded
J	Estimated Value
N	Tentatively Identified Compound
P	>25% difference between primary and secondary columns
S	Quantitation based on single-point calibration
X	QC Failure see Case Narrative

RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

FTS ANALYTICAL SERVICES

CHAIN OF CUSTODY

COC# ATLR100297
Page 1 of 3

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Eardno
Address: 2000 1st Drive Marietta, Ga
Results Sent to: Gregg Stephens
Email address: G. Stephens
Contact Phone #: Cell#: 678 699-0781
Project Name (Site): 1055 Arden Ave
Project Number (ID):
Regulatory Program: Brownfield / HSRA

Receiver's Initials/Temp: 1.5°C
Custody Seal(s): Y N Lab Work Order # ACOF0016
P.O.# (if required):
Field Comments / Lab Precautions:

Container Type:
Chemical Preservation Code:

Sampler(s): (signature)
Sampler(s): (printed) Gregg Stephens

Analysis Requested

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	VOC (8260)	SVOC (8270)	8 RCRA
1	SB1 (1-3)	1-3	6/1/16 945	S		✓		✓	✓	✓
2	SB1 (6')	6-8	6/1/16 10:00	S		✓		✓	✓	
3	SB2 (1-3)	1-3	6/1/16 10:30	S		✓		✓	✓	✓
4	SB2 (8')	8-10	6/1/16 11:00	S		✓		✓	✓	
5	SB3 (1-3)	1-3	6/1/16 11:15	S		✓		✓	✓	✓
6	SB3 (10')	10-12	6/1/16 11:30	S		✓		✓	✓	
7	SB4 (1-3)	1-3	6/1/16 11:45	S		✓		✓	✓	✓
8	SB4 (12')	12-14	6/1/16 12:00	S		✓		✓	✓	
9	SB5 (1-3)	1-3	6/1/16 1:30	S		✓		✓	✓	✓
10	SB5 (12')	12-14	6/1/16 1:45					✓	✓	

1) Relinquished By: Date / Time 6/3/16 10:00
2) Received By: Date / Time 06/03/16 11:00
3) Relinquished By: Date / Time
4) Received By: Date / Time
5) Relinquished By: Date / Time
6) Received By: Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
___10 Days ; ___5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)
Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH
Container Type: VC=Vial (Clear): VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

FTS ANALYTICAL SERVICES

CHAIN OF CUSTODY

COC# ATLR100331
Page 2 of 3

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Cardno
Address: 2000 1st Drive, Marietta, Ga
Results Sent to: Gregg Stephens
Email address:
Contact Phone #: Cell#: 678 699 0781
Project Name (Site): 1055 Arden Ave
Project Number (ID):
Regulatory Program: Brownfield/HSRA

Receiver's Initials/Temp: AL / 1.5°C
Custody Seal(s): ___ Y N Lab Work Order # AGF0016
P.O.# (if required):
Field Comments / Lab Precautions:

Container Type:
Chemical Preservation Code:

Sampler(s): (signature)
Sampler(s): (printed) Gregg Stephens

Analysis Requested

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	VOCs (8260)	SVOCs (8270)	8 RCRA
1	SB6 (1-3)	1-3	6/1/16 2:00	S		✓		✓	✓	✓
2	SB6 (12')	12-14	6/1/16 2:15	S		✓		✓	✓	
3	SB7 (1-3)	1-3	6/1/16 2:30	S		✓		✓	✓	✓
4	SB7 (15)	15-17	6/1/16 2:45	S		✓		✓	✓	
5	SB8 (1-3)	1-3	6/1/16 3:15	S		✓		✓	✓	✓
6	SB8 (6')	6-8'	6/1/16 3:30	S		✓		✓	✓	
7	SB9 (1-3)	1-3	6/2/16 9:30	S		✓		✓	✓	✓
8	SB9 (12')	(12-14)	(6/2/16 9:45	S		✓		✓	✓	
9	SB10 (1-3)	1-3	6/2/16 10:30	S		✓		✓	✓	✓
10	SB10 (12')	12-14	6/2/16 10:45	S		✓		✓	✓	

1) Relinquished By: Date / Time 6/3/16 10:00
2) Received By: Date / Time 06/03/16 11:00
3) Relinquished By: Date / Time
4) Received By: Date / Time
5) Relinquished By: Date / Time
6) Received By: Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
___10 Days ; ___5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)
Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH
Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

FTS ANALYTICAL SERVICES

CHAIN OF CUSTODY

COC# ATLR100298
Page 3 of 3

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Cardno
Address: 2000 1st Drive Marietta Ga
Results Sent to: Gregg Stephens
Email address:
Contact Phone #: Cell#: 678 699 0781
Project Name (Site): 1055 Arden Ave
Project Number (ID):
Regulatory Program: Brownfield / HSRA

Receiver's Initials/Temp: DL / 1.5°C
Custody Seal(s): ___ Y N Lab Work Order # ACF0014
P.O.# (if required):
Field Comments / Lab Precautions:

Container Type:
Chemical Preservation Code:

Sampler(s): (signature)
Sampler(s): (printed) Gregg Stephens

Analysis Requested

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	VOCs (8260)	SVOCs (8270) & RCRA
1	SB15 (8')	8-10	6/1/16 11:00	S		✓		✓	✓
2									
3									
4									
5									
6									
7									
8									
9									
10									

1) Relinquished By:	Date / Time 6/3/16 10:00	2) Received By:	Date / Time 060316 11:[illegible]
3) Relinquished By:	Date / Time	4) Received By:	Date / Time
5) Relinquished By:	Date / Time	6) Received By:	Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
___10 Days ; ___5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)
Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH
Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

Analytical Report

A6F0015

Project

1055 Arden Avenue

Project Number

BrownField/HSRA

June 14, 2016
Cardno -Marietta
2000 1st Drive, Suite 220
Marietta, GA 30062

Minority Women Business Enterprise
Small Disadvantaged Business Enterprise

Minority Women Business Enterprise
Small Disadvantaged Business Enterprise

6017 Financial Dr.
Norcross, GA 30071

Phone #:770-449-8800
Website: www.ftsanalytical.com

June 14, 2016

Gregg Stephens
Cardno -Marietta
2000 1st Drive, Suite 220
Marietta, GA 30062

RE: 1055 Arden Avenue

We are reporting the results of the analyses performed on the samples recieved on 6/3/2016 under the project name referenced above and identified as the lab Work Order A6F0015. All results being reported under this Report apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontracted lab, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reporting using all other available quality control methods.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by FTS Analytical Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise agreed upon. The samples received, and described as recorded in Work Order A6F0015 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise agreed upon. We reserve the right to return to you any unused samples, extracts, or solutions if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding standard practices, controlled/regulated substances, etc.)

We thank you for selecting FTS Analytical to serve your analytical needs. If you have any questions concerning this report, please do not hesitate to contact us at any time. We will be happy to help.

Sincerely,

J. Derek Rounsley
Project Manager

Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
A6F0015-01	MW1	Water	02-Jun-2016 11:20	03-Jun-2016 11:00
A6F0015-02	MW2	Water	02-Jun-2016 11:30	03-Jun-2016 11:00
A6F0015-03	MW3	Water	02-Jun-2016 11:40	03-Jun-2016 11:00
A6F0015-04	MW4	Water	02-Jun-2016 11:50	03-Jun-2016 11:00
A6F0015-05	MW5	Water	02-Jun-2016 12:00	03-Jun-2016 11:00
A6F0015-06	MW6	Water	02-Jun-2016 12:10	03-Jun-2016 11:00
A6F0015-07	MW7	Water	02-Jun-2016 13:00	03-Jun-2016 11:00
A6F0015-08	MW8	Water	02-Jun-2016 13:15	03-Jun-2016 11:00
A6F0015-09	MW9	Water	02-Jun-2016 13:45	03-Jun-2016 11:00
A6F0015-10	MW10	Water	02-Jun-2016 14:00	03-Jun-2016 11:00
A6F0015-11	FB-1	Water	02-Jun-2016 12:00	03-Jun-2016 11:00

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Analysis Case Narrative

SW8270 waters
B6F0185

Nitrobenzene d-5 surrogate recovery outside established control limits, when 1 acid and/or 1 base surrogate fails, the surrogate is flagged and data reported. Samples affected:A6F0015-07.

Aniline and Pyrene recovered above QC limits in LCS and LCSD. No target analytes were detected in the sample(s) at or above the respective limits of detection. No additional action is required

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Analysis Case Narrative

SW8260B
Batch B6F0286
The RPD of the Blank Spike, Blank Spike Duplicate was outside of the QC limits for Dichlorodifluoromethane. The RPD of the Matrix Spike, Matrix Spike Duplicate was within limits.
The percent recovery of the Matrix Spike, Matrix Spike Duplicate were below the QC limits for 1,2-Dicchloropropane and 2-Chloroethyl Vinyl Ether. The percent recovery of the Blank Spike, Blank Spike duplicate were within limits.
Samples affected: A6F0015-02,- 03, -04, -05, -06, -07, -08, 09, -10, - 11.

The percent recovery of the surrogate, 1,2-Dichloroethane-d4, was above QC limits for the associated samples. Target analytes associated with this surrogate are non-detect.
Samples affected: A6F0015-04, 06, 07, 08, 09.

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
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Hits Summary

(Not Including Subcontracted Analysis)

Sample: MW2

Lab ID: A6F0015-02

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
Barium	**0.0632**	0.0500	mg/L	1	6/7/16 13:00		7440-39-3	EPA 6010C

Sample: MW4

Lab ID: A6F0015-04

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
Barium	**0.0640**	0.0500	mg/L	1	6/7/16 13:04		7440-39-3	EPA 6010C

Sample: MW5

Lab ID: A6F0015-05

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
Barium	**0.0501**	0.0500	mg/L	1	6/7/16 13:06		7440-39-3	EPA 6010C

Sample: MW6

Lab ID: A6F0015-06

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
Barium	**0.167**	0.0500	mg/L	1	6/7/16 13:08		7440-39-3	EPA 6010C

Sample: MW7

Lab ID: A6F0015-07

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
Barium	**0.0806**	0.0500	mg/L	1	6/7/16 13:10		7440-39-3	EPA 6010C

Sample: MW9

Lab ID: A6F0015-09

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
Barium	**0.0546**	0.0500	mg/L	1	6/7/16 13:14		7440-39-3	EPA 6010C

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Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Hits Summary

(Not Including Subcontracted Analysis)

(Continued)

Sample: MW10

Lab ID: A6F0015-10

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
Barium	**0.132**	0.0500	mg/L	1	6/7/16 13:21		7440-39-3	EPA 6010C

Sample: FB-1

Lab ID: A6F0015-11

Analyte	Result	RL	Units	Dil	Date Analyzed	Qual	CAS #	Method
Chloroform	**28.8**	5.00	ug/L	1	6/9/16 17:07		67-66-3	EPA 8260B

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MWBE SDBE
NELAC DoD Accredited

Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results

Client Sample ID: MW1
Lab Sample ID: A6F0015-01 (Water)

Sampled:
6/2/16 11:20

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Dissolved Mercury Analysis by Method 7470A								
Mercury	ND	0.200	ug/L	1	6/7/16 8:14	6/8/16 10:49	U	7439-97-6
Dissolved Metal Analysis by Method 6010C								
Arsenic	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 12:59	U	7440-38-2
Barium	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 12:59	U	7440-39-3
Cadmium	ND	0.00500	mg/L	1	6/7/16 7:45	6/7/16 12:59	U	7440-43-9
Chromium	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 12:59	U	7440-47-3
Lead	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 12:59	U	7439-92-1
Selenium	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 12:59	U	7782-49-2
Silver	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 12:59	U	7440-22-4
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	120-82-1
1,2-Dichlorobenzene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	95-50-1
1,3-Dichlorobenzene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	541-73-1
1,4-Dichlorobenzene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	106-46-7
2,4,5-Trichlorophenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	95-95-4
2,4,6-Trichlorophenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	88-06-2
2,4-Dichlorophenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	120-83-2
2,4-Dimethylphenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	105-67-9
2,4-Dinitrophenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	51-28-5
2,4-Dinitrotoluene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	121-14-2
2,6-Dinitrotoluene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	606-20-2
2-Chloronaphthalene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	91-58-7
2-Chlorophenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	95-57-8
2-Methylnaphthalene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	91-57-6
2-Methylphenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	95-48-7
2-Nitroaniline	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	88-74-4
2-Nitrophenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	88-75-5
3&4-Methylphenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	91-94-1
4-Bromophenyl-phenylether	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	101-55-3
4-chloro-3-methylphenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	59-50-7
4-Nitrophenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	100-02-7
Acenaphthene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	83-32-9
Acenaphthylene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	62-53-3
Anthracene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	120-12-7
Benzo(a)anthracene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	56-55-3

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Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW1 (Continued)
Lab Sample ID: A6F0015-01 (Water)

Sampled:
6/2/16 11:20

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Benzo(a)pyrene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	50-32-8
Benzo(b)fluoranthene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	205-99-2
Benzo(g,h,i)perylene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	191-24-2
Benzo(k)fluoranthene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	207-08-9
Benzoic Acid	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	65-85-0
Benzyl Alcohol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	100-51-6
Butyl Benzyl Phthalate	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	85-68-7
bis(2-chloroethoxy) methane	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	111-91-1
bis(2-chloroethyl) ether	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	111-44-4
bis(2-chloroisopropyl) ether	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	117-81-7
Chrysene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	218-01-9
Dibenz(a,h)anthracene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	53-70-3
Dibenzofuran	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	132-64-9
Diethyl Phthalate	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	84-66-2
Dimethyl Phthalate	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	131-11-3
di-n-Butyl Phthalate	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	84-74-2
di-n-Octyl Phthalate	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	117-84-0
Fluoranthene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	206-44-0
Fluorene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	86-73-7
Hexachlorobenzene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	118-74-1
Hexachlorobutadiene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	87-68-3
Hexachlorocyclopentadiene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	77-47-4
Hexachloroethane	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	193-39-5
Isophorone	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	78-59-1
Naphthalene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	91-20-3
Nitrobenzene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	98-95-3
N-Nitrosodimethylamine	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	621-64-7
N-Nitrosodiphenylamine	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	86-30-6
Pentachlorophenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	87-86-5
Phenanthrene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	85-01-8
Phenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	108-95-2
Pyrene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 19:43	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*79%*	*48-117*			6/8/16 19:43		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*63%*	*44-117*			6/8/16 19:43		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*56%*	*30-100*			6/8/16 19:43		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*59%*	*46-111*			6/8/16 19:43		4165-60-0

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Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW1 (Continued)
Lab Sample ID: A6F0015-01 (Water)

Sampled:
6/2/16 11:20

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Surrogate: Phenol-d5 (A-SURR)		*67%*	*35-100*			6/8/16 19:43		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*77%*	*46-126*			6/8/16 19:43		1718-51-0
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	630-20-6
1,1,1-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	79-34-5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	76-13-1
1,1,2-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	79-00-5
1,1-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	75-34-3
1,1-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	75-35-4
1,1-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	563-58-6
1,2,3-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	87-61-6
1,2,3-Trichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	96-18-4
1,2,4-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	120-82-1
1,2,4-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	96-12-8
1,2-Dibromoethane (EDB)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	106-93-4
1,2-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	95-50-1
1,2-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	107-06-2
1,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	78-87-5
1,3,5-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	108-67-8
1,3-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	541-73-1
1,3-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	142-28-9
1,4-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	106-46-7
2,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	590-20-7
2-Chloroethyl vinyl ether	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	110-75-8
2-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	95-49-8
2-Hexanone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	591-78-6
3,3-Dimethyl-1-butanol	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	624-95-3
4-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	108-10-1
Acetone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	67-64-1
Acrolein	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	107-02-8
Acrylonitrile	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	107-13-1
Benzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	71-43-2
Bromobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	108-86-1
Bromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	74-97-5
Bromodichloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	75-27-4

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW1 (Continued)
Lab Sample ID: A6F0015-01 (Water)

Sampled:
6/2/16 11:20

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Bromoform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	75-25-2
Bromomethane (Methyl Bromide)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	74-83-9
Carbon disulfide	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	75-15-0
Carbon tetrachloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	56-23-5
Chlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	108-90-7
Chloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	75-00-3
Chloroform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	67-66-3
Chloromethane (Methyl Chloride)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	74-87-3
cis-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	156-59-4
cis-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	10061-01-5
Cyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	110-82-7
Dibromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	124-48-1
Dibromomethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	74-95-3
Dichlorodifluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U, F	75-71-8
Diethyl Ether (Ethyl Ether)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	60-29-7
2-Butanone (MEK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	78-93-3
Ethyl methacrylate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	97-63-2
Ethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	100-41-4
Hexachlorobutadiene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	87-68-3
Isopropylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	98-82-8
m,p-Xylenes	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	179601-23-1
Methyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	1634-04-4
Methylcyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	108-87-2
Methylene Chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	75-09-2
Naphthalene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	91-20-3
n-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	104-51-8
n-Propylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	103-65-1
o-Xylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	99-87-6
sec-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	135-98-8
Styrene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	100-42-5
tert-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	98-06-6
Tetrachloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	127-18-4
Tetrahydrofuran	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	109-99-9
Toluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	108-88-3
Total Xylenes	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	1330-20-7
trans-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	156-60-5
trans-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	1006-10-26

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW1 (Continued)
Lab Sample ID: A6F0015-01 (Water)

Sampled:
6/2/16 11:20

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Trichloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	79-01-6
Trichlorofluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	75-69-4
Vinyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	108-05-4
Vinyl chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:32	U	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*159%*	*53-159*			6/9/16 17:32		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*94%*	*30-186*			6/9/16 17:32		460-00-4
Surrogate: Toluene-D8 (SUR)		*102%*	*70-130*			6/9/16 17:32		2037-26-5

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW2
Lab Sample ID: A6F0015-02 (Water)

Sampled:
6/2/16 11:30

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Dissolved Mercury Analysis by Method 7470A								
Mercury	ND	0.200	ug/L	1	6/7/16 8:14	6/8/16 10:49	U	7439-97-6
Dissolved Metal Analysis by Method 6010C								
Arsenic	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:00	U	7440-38-2
Barium	**0.0632**	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:00		7440-39-3
Cadmium	ND	0.00500	mg/L	1	6/7/16 7:45	6/7/16 13:00	U	7440-43-9
Chromium	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:00	U	7440-47-3
Lead	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:00	U	7439-92-1
Selenium	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:00	U	7782-49-2
Silver	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:00	U	7440-22-4
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	120-82-1
1,2-Dichlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	95-50-1
1,3-Dichlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	541-73-1
1,4-Dichlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	106-46-7
2,4,5-Trichlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	95-95-4
2,4,6-Trichlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	88-06-2
2,4-Dichlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	120-83-2
2,4-Dimethylphenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	105-67-9
2,4-Dinitrophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	51-28-5
2,4-Dinitrotoluene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	121-14-2
2,6-Dinitrotoluene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	606-20-2
2-Chloronaphthalene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	91-58-7
2-Chlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	95-57-8
2-Methylnaphthalene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	91-57-6
2-Methylphenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	95-48-7
2-Nitroaniline	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	88-74-4
2-Nitrophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	88-75-5
3&4-Methylphenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	91-94-1
4-Bromophenyl-phenylether	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	101-55-3
4-chloro-3-methylphenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	59-50-7
4-Nitrophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	100-02-7
Acenaphthene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	83-32-9
Acenaphthylene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	62-53-3
Anthracene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	120-12-7
Benzo(a)anthracene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	56-55-3

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW2 (Continued)
Lab Sample ID: A6F0015-02 (Water)

Sampled:
6/2/16 11:30

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Benzo(a)pyrene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	50-32-8
Benzo(b)fluoranthene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	205-99-2
Benzo(g,h,i)perylene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	191-24-2
Benzo(k)fluoranthene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	207-08-9
Benzoic Acid	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	65-85-0
Benzyl Alcohol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	100-51-6
Butyl Benzyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	85-68-7
bis(2-chloroethoxy) methane	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	111-91-1
bis(2-chloroethyl) ether	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	111-44-4
bis(2-chloroisopropyl) ether	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	117-81-7
Chrysene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	218-01-9
Dibenz(a,h)anthracene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	53-70-3
Dibenzofuran	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	132-64-9
Diethyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	84-66-2
Dimethyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	131-11-3
di-n-Butyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	84-74-2
di-n-Octyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	117-84-0
Fluoranthene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	206-44-0
Fluorene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	86-73-7
Hexachlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	118-74-1
Hexachlorobutadiene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	87-68-3
Hexachlorocyclopentadiene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	77-47-4
Hexachloroethane	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	193-39-5
Isophorone	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	78-59-1
Naphthalene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	91-20-3
Nitrobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	98-95-3
N-Nitrosodimethylamine	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	621-64-7
N-Nitrosodiphenylamine	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	86-30-6
Pentachlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	87-86-5
Phenanthrene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	85-01-8
Phenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	108-95-2
Pyrene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 20:12	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*80%*	*48-117*			6/8/16 20:12		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*70%*	*44-117*			6/8/16 20:12		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*64%*	*30-100*			6/8/16 20:12		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*60%*	*46-111*			6/8/16 20:12		4165-60-0

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW2 (Continued)
Lab Sample ID: A6F0015-02 (Water)

Sampled:
6/2/16 11:30

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Surrogate: Phenol-d5 (A-SURR)		*69%*	*35-100*			6/8/16 20:12		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*71%*	*46-126*			6/8/16 20:12		1718-51-0
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	630-20-6
1,1,1-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	79-34-5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	76-13-1
1,1,2-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	79-00-5
1,1-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	75-34-3
1,1-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	75-35-4
1,1-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	563-58-6
1,2,3-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	87-61-6
1,2,3-Trichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	96-18-4
1,2,4-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	120-82-1
1,2,4-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	96-12-8
1,2-Dibromoethane (EDB)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	106-93-4
1,2-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	95-50-1
1,2-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	107-06-2
1,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	XU	78-87-5
1,3,5-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	108-67-8
1,3-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	541-73-1
1,3-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	142-28-9
1,4-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	106-46-7
2,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	590-20-7
2-Chloroethyl vinyl ether	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 17:57	XU	110-75-8
2-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	95-49-8
2-Hexanone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	591-78-6
3,3-Dimethyl-1-butanol	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	624-95-3
4-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	108-10-1
Acetone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	67-64-1
Acrolein	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	107-02-8
Acrylonitrile	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	107-13-1
Benzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	71-43-2
Bromobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	108-86-1
Bromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	74-97-5
Bromodichloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	75-27-4

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW2 (Continued)
Lab Sample ID: A6F0015-02 (Water)

Sampled:
6/2/16 11:30

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Bromoform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	75-25-2
Bromomethane (Methyl Bromide)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	74-83-9
Carbon disulfide	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	75-15-0
Carbon tetrachloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	56-23-5
Chlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	108-90-7
Chloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	75-00-3
Chloroform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	67-66-3
Chloromethane (Methyl Chloride)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	74-87-3
cis-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	156-59-4
cis-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	10061-01-5
Cyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	110-82-7
Dibromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	124-48-1
Dibromomethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	74-95-3
Dichlorodifluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U, F	75-71-8
Diethyl Ether (Ethyl Ether)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	60-29-7
2-Butanone (MEK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	78-93-3
Ethyl methacrylate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	97-63-2
Ethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	100-41-4
Hexachlorobutadiene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	87-68-3
Isopropylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	98-82-8
m,p-Xylenes	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	179601-23-1
Methyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	1634-04-4
Methylcyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	108-87-2
Methylene Chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	75-09-2
Naphthalene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	91-20-3
n-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	104-51-8
n-Propylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	103-65-1
o-Xylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	99-87-6
sec-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	135-98-8
Styrene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	100-42-5
tert-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	98-06-6
Tetrachloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	127-18-4
Tetrahydrofuran	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	109-99-9
Toluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	108-88-3
Total Xylenes	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	1330-20-7
trans-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	156-60-5
trans-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	1006-10-26

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW2 (Continued)
Lab Sample ID: A6F0015-02 (Water)

Sampled:
6/2/16 11:30

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Trichloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	79-01-6
Trichlorofluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	75-69-4
Vinyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	108-05-4
Vinyl chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:57	U	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*157%*	*53-159*			6/9/16 17:57		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*93%*	*30-186*			6/9/16 17:57		460-00-4
Surrogate: Toluene-D8 (SUR)		*102%*	*70-130*			6/9/16 17:57		2037-26-5

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW3
Lab Sample ID: A6F0015-03 (Water)

Sampled:
6/2/16 11:40

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Dissolved Mercury Analysis by Method 7470A								
Mercury	ND	0.200	ug/L	1	6/7/16 8:14	6/8/16 10:49	U	7439-97-6
Dissolved Metal Analysis by Method 6010C								
Arsenic	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:02	U	7440-38-2
Barium	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:02	U	7440-39-3
Cadmium	ND	0.00500	mg/L	1	6/7/16 7:45	6/7/16 13:02	U	7440-43-9
Chromium	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:02	U	7440-47-3
Lead	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:02	U	7439-92-1
Selenium	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:02	U	7782-49-2
Silver	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:02	U	7440-22-4
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	120-82-1
1,2-Dichlorobenzene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	95-50-1
1,3-Dichlorobenzene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	541-73-1
1,4-Dichlorobenzene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	106-46-7
2,4,5-Trichlorophenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	95-95-4
2,4,6-Trichlorophenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	88-06-2
2,4-Dichlorophenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	120-83-2
2,4-Dimethylphenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	105-67-9
2,4-Dinitrophenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	51-28-5
2,4-Dinitrotoluene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	121-14-2
2,6-Dinitrotoluene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	606-20-2
2-Chloronaphthalene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	91-58-7
2-Chlorophenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	95-57-8
2-Methylnaphthalene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	91-57-6
2-Methylphenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	95-48-7
2-Nitroaniline	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	88-74-4
2-Nitrophenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	88-75-5
3&4-Methylphenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	91-94-1
4-Bromophenyl-phenylether	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	101-55-3
4-chloro-3-methylphenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	59-50-7
4-Nitrophenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	100-02-7
Acenaphthene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	83-32-9
Acenaphthylene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	62-53-3
Anthracene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	120-12-7
Benzo(a)anthracene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	56-55-3

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW3 (Continued)
Lab Sample ID: A6F0015-03 (Water)

Sampled:
6/2/16 11:40

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Benzo(a)pyrene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	50-32-8
Benzo(b)fluoranthene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	205-99-2
Benzo(g,h,i)perylene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	191-24-2
Benzo(k)fluoranthene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	207-08-9
Benzoic Acid	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	65-85-0
Benzyl Alcohol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	100-51-6
Butyl Benzyl Phthalate	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	85-68-7
bis(2-chloroethoxy) methane	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	111-91-1
bis(2-chloroethyl) ether	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	111-44-4
bis(2-chloroisopropyl) ether	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	117-81-7
Chrysene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	218-01-9
Dibenz(a,h)anthracene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	53-70-3
Dibenzofuran	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	132-64-9
Diethyl Phthalate	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	84-66-2
Dimethyl Phthalate	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	131-11-3
di-n-Butyl Phthalate	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	84-74-2
di-n-Octyl Phthalate	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	117-84-0
Fluoranthene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	206-44-0
Fluorene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	86-73-7
Hexachlorobenzene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	118-74-1
Hexachlorobutadiene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	87-68-3
Hexachlorocyclopentadiene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	77-47-4
Hexachloroethane	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	193-39-5
Isophorone	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	78-59-1
Naphthalene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	91-20-3
Nitrobenzene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	98-95-3
N-Nitrosodimethylamine	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	621-64-7
N-Nitrosodiphenylamine	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	86-30-6
Pentachlorophenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	87-86-5
Phenanthrene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	85-01-8
Phenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	108-95-2
Pyrene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 20:41	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*80%*	*48-117*			6/8/16 20:41		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*68%*	*44-117*			6/8/16 20:41		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*55%*	*30-100*			6/8/16 20:41		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*56%*	*46-111*			6/8/16 20:41		4165-60-0

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW3 (Continued)
Lab Sample ID: A6F0015-03 (Water)

Sampled:
6/2/16 11:40

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Surrogate: Phenol-d5 (A-SURR)		*65%*	*35-100*			6/8/16 20:41		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*78%*	*46-126*			6/8/16 20:41		1718-51-0
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	630-20-6
1,1,1-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	79-34-5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	76-13-1
1,1,2-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	79-00-5
1,1-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	75-34-3
1,1-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	75-35-4
1,1-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	563-58-6
1,2,3-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	87-61-6
1,2,3-Trichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	96-18-4
1,2,4-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	120-82-1
1,2,4-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	96-12-8
1,2-Dibromoethane (EDB)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	106-93-4
1,2-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	95-50-1
1,2-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	107-06-2
1,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	78-87-5
1,3,5-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	108-67-8
1,3-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	541-73-1
1,3-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	142-28-9
1,4-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	106-46-7
2,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	590-20-7
2-Chloroethyl vinyl ether	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	110-75-8
2-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	95-49-8
2-Hexanone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	591-78-6
3,3-Dimethyl-1-butanol	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	624-95-3
4-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	108-10-1
Acetone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	67-64-1
Acrolein	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	107-02-8
Acrylonitrile	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	107-13-1
Benzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	71-43-2
Bromobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	108-86-1
Bromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	74-97-5
Bromodichloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	75-27-4

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW3 (Continued)
Lab Sample ID: A6F0015-03 (Water)

Sampled:
6/2/16 11:40

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Bromoform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	75-25-2
Bromomethane (Methyl Bromide)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	74-83-9
Carbon disulfide	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	75-15-0
Carbon tetrachloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	56-23-5
Chlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	108-90-7
Chloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	75-00-3
Chloroform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	67-66-3
Chloromethane (Methyl Chloride)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	74-87-3
cis-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	156-59-4
cis-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	10061-01-5
Cyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	110-82-7
Dibromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	124-48-1
Dibromomethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	74-95-3
Dichlorodifluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U, F	75-71-8
Diethyl Ether (Ethyl Ether)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	60-29-7
2-Butanone (MEK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	78-93-3
Ethyl methacrylate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	97-63-2
Ethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	100-41-4
Hexachlorobutadiene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	87-68-3
Isopropylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	98-82-8
m,p-Xylenes	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	179601-23-1
Methyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	1634-04-4
Methylcyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	108-87-2
Methylene Chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	75-09-2
Naphthalene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	91-20-3
n-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	104-51-8
n-Propylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	103-65-1
o-Xylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	99-87-6
sec-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	135-98-8
Styrene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	100-42-5
tert-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	98-06-6
Tetrachloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	127-18-4
Tetrahydrofuran	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	109-99-9
Toluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	108-88-3
Total Xylenes	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	1330-20-7
trans-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	156-60-5
trans-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	1006-10-26

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW3 (Continued)
Lab Sample ID: A6F0015-03 (Water)

Sampled:
6/2/16 11:40

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Trichloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	79-01-6
Trichlorofluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	75-69-4
Vinyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	108-05-4
Vinyl chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:22	U	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*159%*	*53-159*			6/9/16 18:22		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*94%*	*30-186*			6/9/16 18:22		460-00-4
Surrogate: Toluene-D8 (SUR)		*102%*	*70-130*			6/9/16 18:22		2037-26-5

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW4
Lab Sample ID: A6F0015-04 (Water)

Sampled:
6/2/16 11:50

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Dissolved Mercury Analysis by Method 7470A								
Mercury	ND	0.200	ug/L	1	6/7/16 8:14	6/8/16 10:49	U	7439-97-6
Dissolved Metal Analysis by Method 6010C								
Arsenic	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:04	U	7440-38-2
Barium	**0.0640**	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:04		7440-39-3
Cadmium	ND	0.00500	mg/L	1	6/7/16 7:45	6/7/16 13:04	U	7440-43-9
Chromium	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:04	U	7440-47-3
Lead	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:04	U	7439-92-1
Selenium	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:04	U	7782-49-2
Silver	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:04	U	7440-22-4
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	120-82-1
1,2-Dichlorobenzene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	95-50-1
1,3-Dichlorobenzene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	541-73-1
1,4-Dichlorobenzene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	106-46-7
2,4,5-Trichlorophenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	95-95-4
2,4,6-Trichlorophenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	88-06-2
2,4-Dichlorophenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	120-83-2
2,4-Dimethylphenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	105-67-9
2,4-Dinitrophenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	51-28-5
2,4-Dinitrotoluene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	121-14-2
2,6-Dinitrotoluene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	606-20-2
2-Chloronaphthalene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	91-58-7
2-Chlorophenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	95-57-8
2-Methylnaphthalene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	91-57-6
2-Methylphenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	95-48-7
2-Nitroaniline	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	88-74-4
2-Nitrophenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	88-75-5
3&4-Methylphenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	91-94-1
4-Bromophenyl-phenylether	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	101-55-3
4-chloro-3-methylphenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	59-50-7
4-Nitrophenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	100-02-7
Acenaphthene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	83-32-9
Acenaphthylene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	62-53-3
Anthracene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	120-12-7
Benzo(a)anthracene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	56-55-3

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW4 (Continued)
Lab Sample ID: A6F0015-04 (Water)

Sampled:
6/2/16 11:50

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Benzo(a)pyrene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	50-32-8
Benzo(b)fluoranthene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	205-99-2
Benzo(g,h,i)perylene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	191-24-2
Benzo(k)fluoranthene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	207-08-9
Benzoic Acid	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	65-85-0
Benzyl Alcohol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	100-51-6
Butyl Benzyl Phthalate	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	85-68-7
bis(2-chloroethoxy) methane	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	111-91-1
bis(2-chloroethyl) ether	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	111-44-4
bis(2-chloroisopropyl) ether	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	117-81-7
Chrysene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	218-01-9
Dibenz(a,h)anthracene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	53-70-3
Dibenzofuran	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	132-64-9
Diethyl Phthalate	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	84-66-2
Dimethyl Phthalate	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	131-11-3
di-n-Butyl Phthalate	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	84-74-2
di-n-Octyl Phthalate	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	117-84-0
Fluoranthene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	206-44-0
Fluorene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	86-73-7
Hexachlorobenzene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	118-74-1
Hexachlorobutadiene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	87-68-3
Hexachlorocyclopentadiene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	77-47-4
Hexachloroethane	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	193-39-5
Isophorone	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	78-59-1
Naphthalene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	91-20-3
Nitrobenzene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	98-95-3
N-Nitrosodimethylamine	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	621-64-7
N-Nitrosodiphenylamine	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	86-30-6
Pentachlorophenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	87-86-5
Phenanthrene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	85-01-8
Phenol	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	108-95-2
Pyrene	ND	10.2	ug/L	1	6/8/16 7:10	6/8/16 21:09	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*83%*	*48-117*			6/8/16 21:09		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*70%*	*44-117*			6/8/16 21:09		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*62%*	*30-100*			6/8/16 21:09		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*62%*	*46-111*			6/8/16 21:09		4165-60-0

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW4 (Continued)
Lab Sample ID: A6F0015-04 (Water)

Sampled:
6/2/16 11:50

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Surrogate: Phenol-d5 (A-SURR)		*70%*	*35-100*			6/8/16 21:09		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*73%*	*46-126*			6/8/16 21:09		1718-51-0
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	630-20-6
1,1,1-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	79-34-5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	76-13-1
1,1,2-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	79-00-5
1,1-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	75-34-3
1,1-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	75-35-4
1,1-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	563-58-6
1,2,3-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	87-61-6
1,2,3-Trichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	96-18-4
1,2,4-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	120-82-1
1,2,4-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	96-12-8
1,2-Dibromoethane (EDB)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	106-93-4
1,2-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	95-50-1
1,2-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	107-06-2
1,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	78-87-5
1,3,5-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	108-67-8
1,3-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	541-73-1
1,3-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	142-28-9
1,4-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	106-46-7
2,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	590-20-7
2-Chloroethyl vinyl ether	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	110-75-8
2-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	95-49-8
2-Hexanone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	591-78-6
3,3-Dimethyl-1-butanol	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	624-95-3
4-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	108-10-1
Acetone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	67-64-1
Acrolein	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	107-02-8
Acrylonitrile	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	107-13-1
Benzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	71-43-2
Bromobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	108-86-1
Bromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	74-97-5
Bromodichloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	75-27-4

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW4 (Continued)
Lab Sample ID: A6F0015-04 (Water)

Sampled:
6/2/16 11:50

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Bromoform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	75-25-2
Bromomethane (Methyl Bromide)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	74-83-9
Carbon disulfide	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	75-15-0
Carbon tetrachloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	56-23-5
Chlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	108-90-7
Chloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	75-00-3
Chloroform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	67-66-3
Chloromethane (Methyl Chloride)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	74-87-3
cis-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	156-59-4
cis-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	10061-01-5
Cyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	110-82-7
Dibromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	124-48-1
Dibromomethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	74-95-3
Dichlorodifluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U, F	75-71-8
Diethyl Ether (Ethyl Ether)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	60-29-7
2-Butanone (MEK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	78-93-3
Ethyl methacrylate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	97-63-2
Ethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	100-41-4
Hexachlorobutadiene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	87-68-3
Isopropylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	98-82-8
m,p-Xylenes	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	179601-23-1
Methyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	1634-04-4
Methylcyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	108-87-2
Methylene Chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	75-09-2
Naphthalene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	91-20-3
n-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	104-51-8
n-Propylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	103-65-1
o-Xylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	99-87-6
sec-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	135-98-8
Styrene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	100-42-5
tert-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	98-06-6
Tetrachloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	127-18-4
Tetrahydrofuran	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	109-99-9
Toluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	108-88-3
Total Xylenes	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	1330-20-7
trans-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	156-60-5
trans-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	1006-10-26

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW4 (Continued)
Lab Sample ID: A6F0015-04 (Water)

Sampled:
6/2/16 11:50

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Trichloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	79-01-6
Trichlorofluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	75-69-4
Vinyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	108-05-4
Vinyl chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 18:48	U	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*160%*	*53-159*			6/9/16 18:48	*X*	10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*92%*	*30-186*			6/9/16 18:48		460-00-4
Surrogate: Toluene-D8 (SUR)		*102%*	*70-130*			6/9/16 18:48		2037-26-5

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW5
Lab Sample ID: A6F0015-05 (Water)

Sampled:
6/2/16 12:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Dissolved Mercury Analysis by Method 7470A								
Mercury	ND	0.200	ug/L	1	6/7/16 8:14	6/8/16 10:49	U	7439-97-6
Dissolved Metal Analysis by Method 6010C								
Arsenic	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:06	U	7440-38-2
Barium	**0.0501**	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:06		7440-39-3
Cadmium	ND	0.00500	mg/L	1	6/7/16 7:45	6/7/16 13:06	U	7440-43-9
Chromium	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:06	U	7440-47-3
Lead	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:06	U	7439-92-1
Selenium	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:06	U	7782-49-2
Silver	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:06	U	7440-22-4
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	120-82-1
1,2-Dichlorobenzene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	95-50-1
1,3-Dichlorobenzene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	541-73-1
1,4-Dichlorobenzene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	106-46-7
2,4,5-Trichlorophenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	95-95-4
2,4,6-Trichlorophenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	88-06-2
2,4-Dichlorophenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	120-83-2
2,4-Dimethylphenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	105-67-9
2,4-Dinitrophenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	51-28-5
2,4-Dinitrotoluene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	121-14-2
2,6-Dinitrotoluene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	606-20-2
2-Chloronaphthalene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	91-58-7
2-Chlorophenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	95-57-8
2-Methylnaphthalene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	91-57-6
2-Methylphenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	95-48-7
2-Nitroaniline	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	88-74-4
2-Nitrophenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	88-75-5
3&4-Methylphenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	91-94-1
4-Bromophenyl-phenylether	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	101-55-3
4-chloro-3-methylphenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	59-50-7
4-Nitrophenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	100-02-7
Acenaphthene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	83-32-9
Acenaphthylene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	62-53-3
Anthracene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	120-12-7
Benzo(a)anthracene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	56-55-3

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW5 (Continued)
Lab Sample ID: A6F0015-05 (Water)

Sampled:
6/2/16 12:00

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Benzo(a)pyrene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	50-32-8
Benzo(b)fluoranthene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	205-99-2
Benzo(g,h,i)perylene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	191-24-2
Benzo(k)fluoranthene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	207-08-9
Benzoic Acid	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	65-85-0
Benzyl Alcohol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	100-51-6
Butyl Benzyl Phthalate	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	85-68-7
bis(2-chloroethoxy) methane	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	111-91-1
bis(2-chloroethyl) ether	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	111-44-4
bis(2-chloroisopropyl) ether	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	117-81-7
Chrysene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	218-01-9
Dibenz(a,h)anthracene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	53-70-3
Dibenzofuran	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	132-64-9
Diethyl Phthalate	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	84-66-2
Dimethyl Phthalate	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	131-11-3
di-n-Butyl Phthalate	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	84-74-2
di-n-Octyl Phthalate	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	117-84-0
Fluoranthene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	206-44-0
Fluorene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	86-73-7
Hexachlorobenzene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	118-74-1
Hexachlorobutadiene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	87-68-3
Hexachlorocyclopentadiene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	77-47-4
Hexachloroethane	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	193-39-5
Isophorone	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	78-59-1
Naphthalene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	91-20-3
Nitrobenzene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	98-95-3
N-Nitrosodimethylamine	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	621-64-7
N-Nitrosodiphenylamine	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	86-30-6
Pentachlorophenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	87-86-5
Phenanthrene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	85-01-8
Phenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	108-95-2
Pyrene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 21:38	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*80%*	*48-117*			6/8/16 21:38		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*65%*	*44-117*			6/8/16 21:38		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*54%*	*30-100*			6/8/16 21:38		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*56%*	*46-111*			6/8/16 21:38		4165-60-0

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW5 (Continued)
Lab Sample ID: A6F0015-05 (Water)

Sampled:
6/2/16 12:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Surrogate: Phenol-d5 (A-SURR)		*63%*	*35-100*			6/8/16 21:38		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*73%*	*46-126*			6/8/16 21:38		1718-51-0
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	630-20-6
1,1,1-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	79-34-5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	76-13-1
1,1,2-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	79-00-5
1,1-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	75-34-3
1,1-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	75-35-4
1,1-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	563-58-6
1,2,3-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	87-61-6
1,2,3-Trichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	96-18-4
1,2,4-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	120-82-1
1,2,4-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	96-12-8
1,2-Dibromoethane (EDB)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	106-93-4
1,2-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	95-50-1
1,2-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	107-06-2
1,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	78-87-5
1,3,5-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	108-67-8
1,3-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	541-73-1
1,3-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	142-28-9
1,4-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	106-46-7
2,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	590-20-7
2-Chloroethyl vinyl ether	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	110-75-8
2-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	95-49-8
2-Hexanone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	591-78-6
3,3-Dimethyl-1-butanol	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	624-95-3
4-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	108-10-1
Acetone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	67-64-1
Acrolein	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	107-02-8
Acrylonitrile	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	107-13-1
Benzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	71-43-2
Bromobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	108-86-1
Bromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	74-97-5
Bromodichloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	75-27-4

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW5 (Continued)
Lab Sample ID: A6F0015-05 (Water)

Sampled:
6/2/16 12:00

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Bromoform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	75-25-2
Bromomethane (Methyl Bromide)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	74-83-9
Carbon disulfide	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	75-15-0
Carbon tetrachloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	56-23-5
Chlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	108-90-7
Chloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	75-00-3
Chloroform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	67-66-3
Chloromethane (Methyl Chloride)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	74-87-3
cis-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	156-59-4
cis-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	10061-01-5
Cyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	110-82-7
Dibromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	124-48-1
Dibromomethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	74-95-3
Dichlorodifluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U, F	75-71-8
Diethyl Ether (Ethyl Ether)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	60-29-7
2-Butanone (MEK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	78-93-3
Ethyl methacrylate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	97-63-2
Ethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	100-41-4
Hexachlorobutadiene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	87-68-3
Isopropylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	98-82-8
m,p-Xylenes	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	179601-23-1
Methyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	1634-04-4
Methylcyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	108-87-2
Methylene Chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	75-09-2
Naphthalene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	91-20-3
n-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	104-51-8
n-Propylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	103-65-1
o-Xylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	99-87-6
sec-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	135-98-8
Styrene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	100-42-5
tert-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	98-06-6
Tetrachloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	127-18-4
Tetrahydrofuran	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	109-99-9
Toluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	108-88-3
Total Xylenes	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	1330-20-7
trans-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	156-60-5
trans-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	1006-10-26

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW5 (Continued)
Lab Sample ID: A6F0015-05 (Water)

Sampled:
6/2/16 12:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Trichloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	79-01-6
Trichlorofluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	75-69-4
Vinyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	108-05-4
Vinyl chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:13	U	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*159%*	*53-159*			6/9/16 19:13		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*93%*	*30-186*			6/9/16 19:13		460-00-4
Surrogate: Toluene-D8 (SUR)		*100%*	*70-130*			6/9/16 19:13		2037-26-5

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW6
Lab Sample ID: A6F0015-06 (Water)

Sampled:
6/2/16 12:10

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Dissolved Mercury Analysis by Method 7470A								
Mercury	ND	0.200	ug/L	1	6/7/16 8:14	6/8/16 10:49	U	7439-97-6
Dissolved Metal Analysis by Method 6010C								
Arsenic	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:08	U	7440-38-2
Barium	**0.167**	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:08		7440-39-3
Cadmium	ND	0.00500	mg/L	1	6/7/16 7:45	6/7/16 13:08	U	7440-43-9
Chromium	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:08	U	7440-47-3
Lead	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:08	U	7439-92-1
Selenium	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:08	U	7782-49-2
Silver	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:08	U	7440-22-4
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	120-82-1
1,2-Dichlorobenzene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	95-50-1
1,3-Dichlorobenzene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	541-73-1
1,4-Dichlorobenzene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	106-46-7
2,4,5-Trichlorophenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	95-95-4
2,4,6-Trichlorophenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	88-06-2
2,4-Dichlorophenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	120-83-2
2,4-Dimethylphenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	105-67-9
2,4-Dinitrophenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	51-28-5
2,4-Dinitrotoluene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	121-14-2
2,6-Dinitrotoluene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	606-20-2
2-Chloronaphthalene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	91-58-7
2-Chlorophenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	95-57-8
2-Methylnaphthalene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	91-57-6
2-Methylphenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	95-48-7
2-Nitroaniline	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	88-74-4
2-Nitrophenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	88-75-5
3&4-Methylphenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	91-94-1
4-Bromophenyl-phenylether	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	101-55-3
4-chloro-3-methylphenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	59-50-7
4-Nitrophenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	100-02-7
Acenaphthene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	83-32-9
Acenaphthylene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	62-53-3
Anthracene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	120-12-7
Benzo(a)anthracene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	56-55-3

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW6 (Continued)
Lab Sample ID: A6F0015-06 (Water)

Sampled:
6/2/16 12:10

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Benzo(a)pyrene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	50-32-8
Benzo(b)fluoranthene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	205-99-2
Benzo(g,h,i)perylene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	191-24-2
Benzo(k)fluoranthene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	207-08-9
Benzoic Acid	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	65-85-0
Benzyl Alcohol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	100-51-6
Butyl Benzyl Phthalate	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	85-68-7
bis(2-chloroethoxy) methane	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	111-91-1
bis(2-chloroethyl) ether	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	111-44-4
bis(2-chloroisopropyl) ether	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	117-81-7
Chrysene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	218-01-9
Dibenz(a,h)anthracene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	53-70-3
Dibenzofuran	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	132-64-9
Diethyl Phthalate	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	84-66-2
Dimethyl Phthalate	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	131-11-3
di-n-Butyl Phthalate	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	84-74-2
di-n-Octyl Phthalate	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	117-84-0
Fluoranthene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	206-44-0
Fluorene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	86-73-7
Hexachlorobenzene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	118-74-1
Hexachlorobutadiene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	87-68-3
Hexachlorocyclopentadiene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	77-47-4
Hexachloroethane	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	193-39-5
Isophorone	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	78-59-1
Naphthalene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	91-20-3
Nitrobenzene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	98-95-3
N-Nitrosodimethylamine	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	621-64-7
N-Nitrosodiphenylamine	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	86-30-6
Pentachlorophenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	87-86-5
Phenanthrene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	85-01-8
Phenol	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	108-95-2
Pyrene	ND	10.4	ug/L	1	6/8/16 7:10	6/8/16 22:07	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*79%*	*48-117*			6/8/16 22:07		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*70%*	*44-117*			6/8/16 22:07		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*58%*	*30-100*			6/8/16 22:07		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*61%*	*46-111*			6/8/16 22:07		4165-60-0

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW6 (Continued)
Lab Sample ID: A6F0015-06 (Water)

Sampled:
6/2/16 12:10

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Surrogate: Phenol-d5 (A-SURR)		*68%*	*35-100*			6/8/16 22:07		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*71%*	*46-126*			6/8/16 22:07		1718-51-0
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	630-20-6
1,1,1-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	79-34-5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	76-13-1
1,1,2-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	79-00-5
1,1-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	75-34-3
1,1-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	75-35-4
1,1-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	563-58-6
1,2,3-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	87-61-6
1,2,3-Trichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	96-18-4
1,2,4-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	120-82-1
1,2,4-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	96-12-8
1,2-Dibromoethane (EDB)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	106-93-4
1,2-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	95-50-1
1,2-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	107-06-2
1,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	78-87-5
1,3,5-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	108-67-8
1,3-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	541-73-1
1,3-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	142-28-9
1,4-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	106-46-7
2,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	590-20-7
2-Chloroethyl vinyl ether	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	110-75-8
2-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	95-49-8
2-Hexanone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	591-78-6
3,3-Dimethyl-1-butanol	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	624-95-3
4-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	108-10-1
Acetone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	67-64-1
Acrolein	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	107-02-8
Acrylonitrile	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	107-13-1
Benzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	71-43-2
Bromobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	108-86-1
Bromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	74-97-5
Bromodichloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	75-27-4

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW6 (Continued)
Lab Sample ID: A6F0015-06 (Water)

Sampled:
6/2/16 12:10

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Bromoform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	75-25-2
Bromomethane (Methyl Bromide)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	74-83-9
Carbon disulfide	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	75-15-0
Carbon tetrachloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	56-23-5
Chlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	108-90-7
Chloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	75-00-3
Chloroform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	67-66-3
Chloromethane (Methyl Chloride)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	74-87-3
cis-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	156-59-4
cis-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	10061-01-5
Cyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	110-82-7
Dibromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	124-48-1
Dibromomethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	74-95-3
Dichlorodifluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U, F	75-71-8
Diethyl Ether (Ethyl Ether)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	60-29-7
2-Butanone (MEK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	78-93-3
Ethyl methacrylate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	97-63-2
Ethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	100-41-4
Hexachlorobutadiene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	87-68-3
Isopropylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	98-82-8
m,p-Xylenes	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	179601-23-1
Methyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	1634-04-4
Methylcyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	108-87-2
Methylene Chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	75-09-2
Naphthalene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	91-20-3
n-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	104-51-8
n-Propylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	103-65-1
o-Xylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	99-87-6
sec-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	135-98-8
Styrene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	100-42-5
tert-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	98-06-6
Tetrachloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	127-18-4
Tetrahydrofuran	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	109-99-9
Toluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	108-88-3
Total Xylenes	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	1330-20-7
trans-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	156-60-5
trans-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	1006-10-26

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW6 (Continued)
Lab Sample ID: A6F0015-06 (Water)

Sampled:
6/2/16 12:10

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Trichloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	79-01-6
Trichlorofluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	75-69-4
Vinyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	108-05-4
Vinyl chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 19:44	U	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*161%*	*53-159*			6/9/16 19:44	*X*	10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*95%*	*30-186*			6/9/16 19:44		460-00-4
Surrogate: Toluene-D8 (SUR)		*102%*	*70-130*			6/9/16 19:44		2037-26-5

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW7
Lab Sample ID: A6F0015-07 (Water)

Sampled:
6/2/16 13:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Dissolved Mercury Analysis by Method 7470A								
Mercury	ND	0.200	ug/L	1	6/7/16 8:14	6/8/16 10:49	U	7439-97-6
Dissolved Metal Analysis by Method 6010C								
Arsenic	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:10	U	7440-38-2
Barium	**0.0806**	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:10		7440-39-3
Cadmium	ND	0.00500	mg/L	1	6/7/16 7:45	6/7/16 13:10	U	7440-43-9
Chromium	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:10	U	7440-47-3
Lead	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:10	U	7439-92-1
Selenium	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:10	U	7782-49-2
Silver	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:10	U	7440-22-4
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	120-82-1
1,2-Dichlorobenzene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	95-50-1
1,3-Dichlorobenzene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	541-73-1
1,4-Dichlorobenzene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	106-46-7
2,4,5-Trichlorophenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	95-95-4
2,4,6-Trichlorophenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	88-06-2
2,4-Dichlorophenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	120-83-2
2,4-Dimethylphenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	105-67-9
2,4-Dinitrophenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	51-28-5
2,4-Dinitrotoluene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	121-14-2
2,6-Dinitrotoluene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	606-20-2
2-Chloronaphthalene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	91-58-7
2-Chlorophenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	95-57-8
2-Methylnaphthalene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	91-57-6
2-Methylphenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	95-48-7
2-Nitroaniline	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	88-74-4
2-Nitrophenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	88-75-5
3&4-Methylphenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	91-94-1
4-Bromophenyl-phenylether	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	101-55-3
4-chloro-3-methylphenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	59-50-7
4-Nitrophenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	100-02-7
Acenaphthene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	83-32-9
Acenaphthylene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	62-53-3
Anthracene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	120-12-7
Benzo(a)anthracene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	56-55-3

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW7 (Continued)
Lab Sample ID: A6F0015-07 (Water)

Sampled:
6/2/16 13:00

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Benzo(a)pyrene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	50-32-8
Benzo(b)fluoranthene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	205-99-2
Benzo(g,h,i)perylene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	191-24-2
Benzo(k)fluoranthene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	207-08-9
Benzoic Acid	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	65-85-0
Benzyl Alcohol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	100-51-6
Butyl Benzyl Phthalate	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	85-68-7
bis(2-chloroethoxy) methane	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	111-91-1
bis(2-chloroethyl) ether	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	111-44-4
bis(2-chloroisopropyl) ether	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	117-81-7
Chrysene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	218-01-9
Dibenz(a,h)anthracene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	53-70-3
Dibenzofuran	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	132-64-9
Diethyl Phthalate	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	84-66-2
Dimethyl Phthalate	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	131-11-3
di-n-Butyl Phthalate	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	84-74-2
di-n-Octyl Phthalate	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	117-84-0
Fluoranthene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	206-44-0
Fluorene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	86-73-7
Hexachlorobenzene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	118-74-1
Hexachlorobutadiene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	87-68-3
Hexachlorocyclopentadiene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	77-47-4
Hexachloroethane	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	193-39-5
Isophorone	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	78-59-1
Naphthalene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	91-20-3
Nitrobenzene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	98-95-3
N-Nitrosodimethylamine	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	621-64-7
N-Nitrosodiphenylamine	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	86-30-6
Pentachlorophenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	87-86-5
Phenanthrene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	85-01-8
Phenol	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	108-95-2
Pyrene	ND	10.1	ug/L	1	6/8/16 7:10	6/8/16 22:36	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*69%*	*48-117*			6/8/16 22:36		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*50%*	*44-117*			6/8/16 22:36		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*38%*	*30-100*			6/8/16 22:36		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*42%*	*46-111*			6/8/16 22:36	*X*	4165-60-0

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW7 (Continued)
Lab Sample ID: A6F0015-07 (Water)

Sampled:
6/2/16 13:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Surrogate: Phenol-d5 (A-SURR)		*49%*	*35-100*			6/8/16 22:36		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*67%*	*46-126*			6/8/16 22:36		1718-51-0
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	630-20-6
1,1,1-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	79-34-5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	76-13-1
1,1,2-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	79-00-5
1,1-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	75-34-3
1,1-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	75-35-4
1,1-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	563-58-6
1,2,3-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	87-61-6
1,2,3-Trichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	96-18-4
1,2,4-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	120-82-1
1,2,4-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	96-12-8
1,2-Dibromoethane (EDB)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	106-93-4
1,2-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	95-50-1
1,2-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	107-06-2
1,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	78-87-5
1,3,5-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	108-67-8
1,3-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	541-73-1
1,3-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	142-28-9
1,4-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	106-46-7
2,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	590-20-7
2-Chloroethyl vinyl ether	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	110-75-8
2-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	95-49-8
2-Hexanone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	591-78-6
3,3-Dimethyl-1-butanol	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	624-95-3
4-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	108-10-1
Acetone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	67-64-1
Acrolein	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	107-02-8
Acrylonitrile	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	107-13-1
Benzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	71-43-2
Bromobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	108-86-1
Bromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	74-97-5
Bromodichloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	75-27-4

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW7 (Continued)
Lab Sample ID: A6F0015-07 (Water)

Sampled:
6/2/16 13:00

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Bromoform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	75-25-2
Bromomethane (Methyl Bromide)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	74-83-9
Carbon disulfide	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	75-15-0
Carbon tetrachloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	56-23-5
Chlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	108-90-7
Chloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	75-00-3
Chloroform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	67-66-3
Chloromethane (Methyl Chloride)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	74-87-3
cis-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	156-59-4
cis-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	10061-01-5
Cyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	110-82-7
Dibromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	124-48-1
Dibromomethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	74-95-3
Dichlorodifluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U, F	75-71-8
Diethyl Ether (Ethyl Ether)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	60-29-7
2-Butanone (MEK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	78-93-3
Ethyl methacrylate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	97-63-2
Ethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	100-41-4
Hexachlorobutadiene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	87-68-3
Isopropylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	98-82-8
m,p-Xylenes	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	179601-23-1
Methyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	1634-04-4
Methylcyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	108-87-2
Methylene Chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	75-09-2
Naphthalene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	91-20-3
n-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	104-51-8
n-Propylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	103-65-1
o-Xylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	99-87-6
sec-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	135-98-8
Styrene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	100-42-5
tert-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	98-06-6
Tetrachloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	127-18-4
Tetrahydrofuran	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	109-99-9
Toluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	108-88-3
Total Xylenes	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	1330-20-7
trans-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	156-60-5
trans-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	1006-10-26

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW7 (Continued)
Lab Sample ID: A6F0015-07 (Water)

Sampled:
6/2/16 13:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Trichloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	79-01-6
Trichlorofluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	75-69-4
Vinyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	108-05-4
Vinyl chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:08	U	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*165%*	*53-159*			6/9/16 20:08	*X*	10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*95%*	*30-186*			6/9/16 20:08		460-00-4
Surrogate: Toluene-D8 (SUR)		*102%*	*70-130*			6/9/16 20:08		2037-26-5

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Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW8
Lab Sample ID: A6F0015-08 (Water)

Sampled:
6/2/16 13:15

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Dissolved Mercury Analysis by Method 7470A								
Mercury	ND	0.200	ug/L	1	6/7/16 8:14	6/8/16 10:49	U	7439-97-6
Dissolved Metal Analysis by Method 6010C								
Arsenic	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:12	U	7440-38-2
Barium	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:12	U	7440-39-3
Cadmium	ND	0.00500	mg/L	1	6/7/16 7:45	6/7/16 13:12	U	7440-43-9
Chromium	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:12	U	7440-47-3
Lead	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:12	U	7439-92-1
Selenium	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:12	U	7782-49-2
Silver	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:12	U	7440-22-4
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	120-82-1
1,2-Dichlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	95-50-1
1,3-Dichlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	541-73-1
1,4-Dichlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	106-46-7
2,4,5-Trichlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	95-95-4
2,4,6-Trichlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	88-06-2
2,4-Dichlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	120-83-2
2,4-Dimethylphenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	105-67-9
2,4-Dinitrophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	51-28-5
2,4-Dinitrotoluene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	121-14-2
2,6-Dinitrotoluene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	606-20-2
2-Chloronaphthalene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	91-58-7
2-Chlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	95-57-8
2-Methylnaphthalene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	91-57-6
2-Methylphenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	95-48-7
2-Nitroaniline	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	88-74-4
2-Nitrophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	88-75-5
3&4-Methylphenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	91-94-1
4-Bromophenyl-phenylether	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	101-55-3
4-chloro-3-methylphenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	59-50-7
4-Nitrophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	100-02-7
Acenaphthene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	83-32-9
Acenaphthylene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	62-53-3
Anthracene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	120-12-7
Benzo(a)anthracene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	56-55-3

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW8 (Continued)
Lab Sample ID: A6F0015-08 (Water)

Sampled:
6/2/16 13:15

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Benzo(a)pyrene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	50-32-8
Benzo(b)fluoranthene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	205-99-2
Benzo(g,h,i)perylene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	191-24-2
Benzo(k)fluoranthene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	207-08-9
Benzoic Acid	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	65-85-0
Benzyl Alcohol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	100-51-6
Butyl Benzyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	85-68-7
bis(2-chloroethoxy) methane	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	111-91-1
bis(2-chloroethyl) ether	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	111-44-4
bis(2-chloroisopropyl) ether	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	117-81-7
Chrysene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	218-01-9
Dibenz(a,h)anthracene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	53-70-3
Dibenzofuran	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	132-64-9
Diethyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	84-66-2
Dimethyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	131-11-3
di-n-Butyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	84-74-2
di-n-Octyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	117-84-0
Fluoranthene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	206-44-0
Fluorene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	86-73-7
Hexachlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	118-74-1
Hexachlorobutadiene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	87-68-3
Hexachlorocyclopentadiene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	77-47-4
Hexachloroethane	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	193-39-5
Isophorone	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	78-59-1
Naphthalene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	91-20-3
Nitrobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	98-95-3
N-Nitrosodimethylamine	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	621-64-7
N-Nitrosodiphenylamine	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	86-30-6
Pentachlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	87-86-5
Phenanthrene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	85-01-8
Phenol	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	108-95-2
Pyrene	ND	10.3	ug/L	1	6/8/16 7:10	6/8/16 23:04	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*76%*	*48-117*			6/8/16 23:04		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*66%*	*44-117*			6/8/16 23:04		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*58%*	*30-100*			6/8/16 23:04		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*57%*	*46-111*			6/8/16 23:04		4165-60-0

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW8 (Continued)
Lab Sample ID: A6F0015-08 (Water)

Sampled:
6/2/16 13:15

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Surrogate: Phenol-d5 (A-SURR)		*65%*	*35-100*			6/8/16 23:04		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*72%*	*46-126*			6/8/16 23:04		1718-51-0
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	630-20-6
1,1,1-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	79-34-5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	76-13-1
1,1,2-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	79-00-5
1,1-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	75-34-3
1,1-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	75-35-4
1,1-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	563-58-6
1,2,3-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	87-61-6
1,2,3-Trichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	96-18-4
1,2,4-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	120-82-1
1,2,4-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	96-12-8
1,2-Dibromoethane (EDB)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	106-93-4
1,2-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	95-50-1
1,2-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	107-06-2
1,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	78-87-5
1,3,5-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	108-67-8
1,3-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	541-73-1
1,3-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	142-28-9
1,4-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	106-46-7
2,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	590-20-7
2-Chloroethyl vinyl ether	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	110-75-8
2-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	95-49-8
2-Hexanone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	591-78-6
3,3-Dimethyl-1-butanol	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	624-95-3
4-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	108-10-1
Acetone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	67-64-1
Acrolein	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	107-02-8
Acrylonitrile	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	107-13-1
Benzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	71-43-2
Bromobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	108-86-1
Bromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	74-97-5
Bromodichloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	75-27-4

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW8 (Continued)
Lab Sample ID: A6F0015-08 (Water)

Sampled:
6/2/16 13:15

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Bromoform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	75-25-2
Bromomethane (Methyl Bromide)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	74-83-9
Carbon disulfide	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	75-15-0
Carbon tetrachloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	56-23-5
Chlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	108-90-7
Chloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	75-00-3
Chloroform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	67-66-3
Chloromethane (Methyl Chloride)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	74-87-3
cis-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	156-59-4
cis-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	10061-01-5
Cyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	110-82-7
Dibromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	124-48-1
Dibromomethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	74-95-3
Dichlorodifluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U, F	75-71-8
Diethyl Ether (Ethyl Ether)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	60-29-7
2-Butanone (MEK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	78-93-3
Ethyl methacrylate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	97-63-2
Ethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	100-41-4
Hexachlorobutadiene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	87-68-3
Isopropylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	98-82-8
m,p-Xylenes	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	179601-23-1
Methyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	1634-04-4
Methylcyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	108-87-2
Methylene Chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	75-09-2
Naphthalene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	91-20-3
n-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	104-51-8
n-Propylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	103-65-1
o-Xylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	99-87-6
sec-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	135-98-8
Styrene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	100-42-5
tert-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	98-06-6
Tetrachloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	127-18-4
Tetrahydrofuran	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	109-99-9
Toluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	108-88-3
Total Xylenes	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	1330-20-7
trans-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	156-60-5
trans-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	1006-10-26

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW8 (Continued)
Lab Sample ID: A6F0015-08 (Water)

Sampled:
6/2/16 13:15

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Trichloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	79-01-6
Trichlorofluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	75-69-4
Vinyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	108-05-4
Vinyl chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:34	U	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*162%*	*53-159*			6/9/16 20:34	*X*	10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*94%*	*30-186*			6/9/16 20:34		460-00-4
Surrogate: Toluene-D8 (SUR)		*102%*	*70-130*			6/9/16 20:34		2037-26-5

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Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW9
Lab Sample ID: A6F0015-09 (Water)

Sampled:
6/2/16 13:45

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Dissolved Mercury Analysis by Method 7470A								
Mercury	ND	0.200	ug/L	1	6/7/16 8:14	6/8/16 10:49	U	7439-97-6
Dissolved Metal Analysis by Method 6010C								
Arsenic	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:14	U	7440-38-2
Barium	**0.0546**	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:14		7440-39-3
Cadmium	ND	0.00500	mg/L	1	6/7/16 7:45	6/7/16 13:14	U	7440-43-9
Chromium	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:14	U	7440-47-3
Lead	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:14	U	7439-92-1
Selenium	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:14	U	7782-49-2
Silver	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:14	U	7440-22-4
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	120-82-1
1,2-Dichlorobenzene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	95-50-1
1,3-Dichlorobenzene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	541-73-1
1,4-Dichlorobenzene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	106-46-7
2,4,5-Trichlorophenol	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	95-95-4
2,4,6-Trichlorophenol	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	88-06-2
2,4-Dichlorophenol	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	120-83-2
2,4-Dimethylphenol	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	105-67-9
2,4-Dinitrophenol	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	51-28-5
2,4-Dinitrotoluene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	121-14-2
2,6-Dinitrotoluene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	606-20-2
2-Chloronaphthalene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	91-58-7
2-Chlorophenol	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	95-57-8
2-Methylnaphthalene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	91-57-6
2-Methylphenol	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	95-48-7
2-Nitroaniline	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	88-74-4
2-Nitrophenol	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	88-75-5
3&4-Methylphenol	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	91-94-1
4-Bromophenyl-phenylether	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	101-55-3
4-chloro-3-methylphenol	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	59-50-7
4-Nitrophenol	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	100-02-7
Acenaphthene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	83-32-9
Acenaphthylene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	62-53-3
Anthracene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	120-12-7
Benzo(a)anthracene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	56-55-3

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW9 (Continued)
Lab Sample ID: A6F0015-09 (Water)

Sampled:
6/2/16 13:45

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Benzo(a)pyrene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	50-32-8
Benzo(b)fluoranthene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	205-99-2
Benzo(g,h,i)perylene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	191-24-2
Benzo(k)fluoranthene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	207-08-9
Benzoic Acid	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	65-85-0
Benzyl Alcohol	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	100-51-6
Butyl Benzyl Phthalate	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	85-68-7
bis(2-chloroethoxy) methane	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	111-91-1
bis(2-chloroethyl) ether	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	111-44-4
bis(2-chloroisopropyl) ether	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	117-81-7
Chrysene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	218-01-9
Dibenz(a,h)anthracene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	53-70-3
Dibenzofuran	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	132-64-9
Diethyl Phthalate	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	84-66-2
Dimethyl Phthalate	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	131-11-3
di-n-Butyl Phthalate	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	84-74-2
di-n-Octyl Phthalate	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	117-84-0
Fluoranthene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	206-44-0
Fluorene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	86-73-7
Hexachlorobenzene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	118-74-1
Hexachlorobutadiene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	87-68-3
Hexachlorocyclopentadiene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	77-47-4
Hexachloroethane	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	193-39-5
Isophorone	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	78-59-1
Naphthalene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	91-20-3
Nitrobenzene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	98-95-3
N-Nitrosodimethylamine	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	621-64-7
N-Nitrosodiphenylamine	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	86-30-6
Pentachlorophenol	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	87-86-5
Phenanthrene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	85-01-8
Phenol	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	108-95-2
Pyrene	ND	15.4	ug/L	1	6/8/16 7:10	6/8/16 23:33	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*69%*	*48-117*			6/8/16 23:33		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*54%*	*44-117*			6/8/16 23:33		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*42%*	*30-100*			6/8/16 23:33		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*49%*	*46-111*			6/8/16 23:33		4165-60-0

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW9 (Continued)
Lab Sample ID: A6F0015-09 (Water)

Sampled:
6/2/16 13:45

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Surrogate: Phenol-d5 (A-SURR)		*47%*	*35-100*			6/8/16 23:33		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*66%*	*46-126*			6/8/16 23:33		1718-51-0
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	630-20-6
1,1,1-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	79-34-5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	76-13-1
1,1,2-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	79-00-5
1,1-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	75-34-3
1,1-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	75-35-4
1,1-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	563-58-6
1,2,3-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	87-61-6
1,2,3-Trichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	96-18-4
1,2,4-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	120-82-1
1,2,4-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	96-12-8
1,2-Dibromoethane (EDB)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	106-93-4
1,2-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	95-50-1
1,2-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	107-06-2
1,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	78-87-5
1,3,5-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	108-67-8
1,3-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	541-73-1
1,3-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	142-28-9
1,4-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	106-46-7
2,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	590-20-7
2-Chloroethyl vinyl ether	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	110-75-8
2-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	95-49-8
2-Hexanone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	591-78-6
3,3-Dimethyl-1-butanol	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	624-95-3
4-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	108-10-1
Acetone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	67-64-1
Acrolein	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	107-02-8
Acrylonitrile	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	107-13-1
Benzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	71-43-2
Bromobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	108-86-1
Bromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	74-97-5
Bromodichloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	75-27-4

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW9 (Continued)
Lab Sample ID: A6F0015-09 (Water)

Sampled:
6/2/16 13:45

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Bromoform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	75-25-2
Bromomethane (Methyl Bromide)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	74-83-9
Carbon disulfide	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	75-15-0
Carbon tetrachloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	56-23-5
Chlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	108-90-7
Chloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	75-00-3
Chloroform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	67-66-3
Chloromethane (Methyl Chloride)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	74-87-3
cis-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	156-59-4
cis-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	10061-01-5
Cyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	110-82-7
Dibromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	124-48-1
Dibromomethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	74-95-3
Dichlorodifluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U, F	75-71-8
Diethyl Ether (Ethyl Ether)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	60-29-7
2-Butanone (MEK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	78-93-3
Ethyl methacrylate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	97-63-2
Ethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	100-41-4
Hexachlorobutadiene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	87-68-3
Isopropylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	98-82-8
m,p-Xylenes	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	179601-23-1
Methyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	1634-04-4
Methylcyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	108-87-2
Methylene Chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	75-09-2
Naphthalene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	91-20-3
n-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	104-51-8
n-Propylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	103-65-1
o-Xylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	99-87-6
sec-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	135-98-8
Styrene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	100-42-5
tert-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	98-06-6
Tetrachloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	127-18-4
Tetrahydrofuran	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	109-99-9
Toluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	108-88-3
Total Xylenes	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	1330-20-7
trans-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	156-60-5
trans-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	1006-10-26

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW9 (Continued)
Lab Sample ID: A6F0015-09 (Water)

Sampled:
6/2/16 13:45

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Trichloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	79-01-6
Trichlorofluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	75-69-4
Vinyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	108-05-4
Vinyl chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 20:59	U	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*165%*	*53-159*			6/9/16 20:59	*X*	10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*94%*	*30-186*			6/9/16 20:59		460-00-4
Surrogate: Toluene-D8 (SUR)		*100%*	*70-130*			6/9/16 20:59		2037-26-5

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW10
Lab Sample ID: A6F0015-10 (Water)

Sampled:
6/2/16 14:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Dissolved Mercury Analysis by Method 7470A								
Mercury	ND	0.200	ug/L	1	6/7/16 8:14	6/8/16 10:49	U	7439-97-6
Dissolved Metal Analysis by Method 6010C								
Arsenic	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:21	U	7440-38-2
Barium	**0.132**	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:21		7440-39-3
Cadmium	ND	0.00500	mg/L	1	6/7/16 7:45	6/7/16 13:21	U	7440-43-9
Chromium	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:21	U	7440-47-3
Lead	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:21	U	7439-92-1
Selenium	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:21	U	7782-49-2
Silver	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:21	U	7440-22-4
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	120-82-1
1,2-Dichlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	95-50-1
1,3-Dichlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	541-73-1
1,4-Dichlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	106-46-7
2,4,5-Trichlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	95-95-4
2,4,6-Trichlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	88-06-2
2,4-Dichlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	120-83-2
2,4-Dimethylphenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	105-67-9
2,4-Dinitrophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	51-28-5
2,4-Dinitrotoluene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	121-14-2
2,6-Dinitrotoluene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	606-20-2
2-Chloronaphthalene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	91-58-7
2-Chlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	95-57-8
2-Methylnaphthalene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	91-57-6
2-Methylphenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	95-48-7
2-Nitroaniline	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	88-74-4
2-Nitrophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	88-75-5
3&4-Methylphenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	91-94-1
4-Bromophenyl-phenylether	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	101-55-3
4-chloro-3-methylphenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	59-50-7
4-Nitrophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	100-02-7
Acenaphthene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	83-32-9
Acenaphthylene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	62-53-3
Anthracene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	120-12-7
Benzo(a)anthracene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	56-55-3

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW10 (Continued)
Lab Sample ID: A6F0015-10 (Water)

Sampled:
6/2/16 14:00

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Benzo(a)pyrene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	50-32-8
Benzo(b)fluoranthene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	205-99-2
Benzo(g,h,i)perylene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	191-24-2
Benzo(k)fluoranthene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	207-08-9
Benzoic Acid	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	65-85-0
Benzyl Alcohol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	100-51-6
Butyl Benzyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	85-68-7
bis(2-chloroethoxy) methane	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	111-91-1
bis(2-chloroethyl) ether	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	111-44-4
bis(2-chloroisopropyl) ether	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	117-81-7
Chrysene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	218-01-9
Dibenz(a,h)anthracene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	53-70-3
Dibenzofuran	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	132-64-9
Diethyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	84-66-2
Dimethyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	131-11-3
di-n-Butyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	84-74-2
di-n-Octyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	117-84-0
Fluoranthene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	206-44-0
Fluorene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	86-73-7
Hexachlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	118-74-1
Hexachlorobutadiene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	87-68-3
Hexachlorocyclopentadiene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	77-47-4
Hexachloroethane	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	193-39-5
Isophorone	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	78-59-1
Naphthalene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	91-20-3
Nitrobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	98-95-3
N-Nitrosodimethylamine	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	621-64-7
N-Nitrosodiphenylamine	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	86-30-6
Pentachlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	87-86-5
Phenanthrene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	85-01-8
Phenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	108-95-2
Pyrene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:02	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*81%*	*48-117*			6/9/16 0:02		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*70%*	*44-117*			6/9/16 0:02		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*61%*	*30-100*			6/9/16 0:02		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*60%*	*46-111*			6/9/16 0:02		4165-60-0

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW10 (Continued)
Lab Sample ID: A6F0015-10 (Water)

Sampled:
6/2/16 14:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Surrogate: Phenol-d5 (A-SURR)		*68%*	*35-100*			6/9/16 0:02		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*72%*	*46-126*			6/9/16 0:02		1718-51-0
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	630-20-6
1,1,1-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	79-34-5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	76-13-1
1,1,2-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	79-00-5
1,1-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	75-34-3
1,1-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	75-35-4
1,1-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	563-58-6
1,2,3-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	87-61-6
1,2,3-Trichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	96-18-4
1,2,4-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	120-82-1
1,2,4-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	96-12-8
1,2-Dibromoethane (EDB)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	106-93-4
1,2-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	95-50-1
1,2-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	107-06-2
1,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	78-87-5
1,3,5-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	108-67-8
1,3-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	541-73-1
1,3-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	142-28-9
1,4-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	106-46-7
2,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	590-20-7
2-Chloroethyl vinyl ether	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	110-75-8
2-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	95-49-8
2-Hexanone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	591-78-6
3,3-Dimethyl-1-butanol	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	624-95-3
4-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	108-10-1
Acetone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	67-64-1
Acrolein	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	107-02-8
Acrylonitrile	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	107-13-1
Benzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	71-43-2
Bromobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	108-86-1
Bromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	74-97-5
Bromodichloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	75-27-4

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW10 (Continued)
Lab Sample ID: A6F0015-10 (Water)

Sampled:
6/2/16 14:00

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Bromoform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	75-25-2
Bromomethane (Methyl Bromide)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	74-83-9
Carbon disulfide	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	75-15-0
Carbon tetrachloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	56-23-5
Chlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	108-90-7
Chloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	75-00-3
Chloroform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	67-66-3
Chloromethane (Methyl Chloride)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	74-87-3
cis-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	156-59-4
cis-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	10061-01-5
Cyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	110-82-7
Dibromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	124-48-1
Dibromomethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	74-95-3
Dichlorodifluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U, F	75-71-8
Diethyl Ether (Ethyl Ether)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	60-29-7
2-Butanone (MEK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	78-93-3
Ethyl methacrylate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	97-63-2
Ethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	100-41-4
Hexachlorobutadiene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	87-68-3
Isopropylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	98-82-8
m,p-Xylenes	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	179601-23-1
Methyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	1634-04-4
Methylcyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	108-87-2
Methylene Chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	75-09-2
Naphthalene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	91-20-3
n-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	104-51-8
n-Propylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	103-65-1
o-Xylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	99-87-6
sec-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	135-98-8
Styrene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	100-42-5
tert-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	98-06-6
Tetrachloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	127-18-4
Tetrahydrofuran	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	109-99-9
Toluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	108-88-3
Total Xylenes	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	1330-20-7
trans-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	156-60-5
trans-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	1006-10-26

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: MW10 (Continued)
Lab Sample ID: A6F0015-10 (Water)

Sampled:
6/2/16 14:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Trichloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	79-01-6
Trichlorofluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	75-69-4
Vinyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	108-05-4
Vinyl chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 21:28	U	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*158%*	*53-159*			6/9/16 21:28		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*95%*	*30-186*			6/9/16 21:28		460-00-4
Surrogate: Toluene-D8 (SUR)		*99%*	*70-130*			6/9/16 21:28		2037-26-5

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: FB-1
Lab Sample ID: A6F0015-11 (Water)

Sampled:
6/2/16 12:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Dissolved Mercury Analysis by Method 7470A								
Mercury	ND	0.200	ug/L	1	6/7/16 8:14	6/8/16 10:49	U	7439-97-6
Dissolved Metal Analysis by Method 6010C								
Arsenic	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:23	U	7440-38-2
Barium	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:23	U	7440-39-3
Cadmium	ND	0.00500	mg/L	1	6/7/16 7:45	6/7/16 13:23	U	7440-43-9
Chromium	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:23	U	7440-47-3
Lead	ND	0.0100	mg/L	1	6/7/16 7:45	6/7/16 13:23	U	7439-92-1
Selenium	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:23	U	7782-49-2
Silver	ND	0.0500	mg/L	1	6/7/16 7:45	6/7/16 13:23	U	7440-22-4
SVOCs by Method 8270D								
1,2,4-Trichlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	120-82-1
1,2-Dichlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	95-50-1
1,3-Dichlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	541-73-1
1,4-Dichlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	106-46-7
2,4,5-Trichlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	95-95-4
2,4,6-Trichlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	88-06-2
2,4-Dichlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	120-83-2
2,4-Dimethylphenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	105-67-9
2,4-Dinitrophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	51-28-5
2,4-Dinitrotoluene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	121-14-2
2,6-Dinitrotoluene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	606-20-2
2-Chloronaphthalene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	91-58-7
2-Chlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	95-57-8
2-Methylnaphthalene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	91-57-6
2-Methylphenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	95-48-7
2-Nitroaniline	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	88-74-4
2-Nitrophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	88-75-5
3&4-Methylphenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	08-39-4/106-44-
3,3-Dichlorobenzidine	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	91-94-1
4-Bromophenyl-phenylether	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	101-55-3
4-chloro-3-methylphenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	59-50-7
4-Nitrophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	100-02-7
Acenaphthene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	83-32-9
Acenaphthylene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	208-96-8
Aniline (Phenylamine, Aminobenzene)	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	62-53-3
Anthracene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	120-12-7
Benzo(a)anthracene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	56-55-3

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: FB-1 (Continued)
Lab Sample ID: A6F0015-11 (Water)

Sampled:
6/2/16 12:00

SVOCs by Method 8270D (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Benzo(a)pyrene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	50-32-8
Benzo(b)fluoranthene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	205-99-2
Benzo(g,h,i)perylene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	191-24-2
Benzo(k)fluoranthene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	207-08-9
Benzoic Acid	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	65-85-0
Benzyl Alcohol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	100-51-6
Butyl Benzyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	85-68-7
bis(2-chloroethoxy) methane	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	111-91-1
bis(2-chloroethyl) ether	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	111-44-4
bis(2-chloroisopropyl) ether	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	108-60-1
bis(2-ethylhexyl) phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	117-81-7
Chrysene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	218-01-9
Dibenz(a,h)anthracene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	53-70-3
Dibenzofuran	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	132-64-9
Diethyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	84-66-2
Dimethyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	131-11-3
di-n-Butyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	84-74-2
di-n-Octyl Phthalate	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	117-84-0
Fluoranthene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	206-44-0
Fluorene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	86-73-7
Hexachlorobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	118-74-1
Hexachlorobutadiene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	87-68-3
Hexachlorocyclopentadiene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	77-47-4
Hexachloroethane	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	67-72-1
Indeno(1,2,3-cd)pyrene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	193-39-5
Isophorone	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	78-59-1
Naphthalene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	91-20-3
Nitrobenzene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	98-95-3
N-Nitrosodimethylamine	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	62-75-9
N-Nitrosodi-n-Propylamine	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	621-64-7
N-Nitrosodiphenylamine	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	86-30-6
Pentachlorophenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	87-86-5
Phenanthrene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	85-01-8
Phenol	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	108-95-2
Pyrene	ND	10.3	ug/L	1	6/8/16 7:10	6/9/16 0:31	U	129-00-0
Surrogate: 2,4,6-Tribromophenol (A-SUR)		*83%*	*48-117*			6/9/16 0:31		118-79-6
Surrogate: 2-Fluorobiphenyl (B-SUR)		*72%*	*44-117*			6/9/16 0:31		321-60-8
Surrogate: 2-Fluorophenol (A-SUR)		*64%*	*30-100*			6/9/16 0:31		367-12-4
Surrogate: Nitrobenzene-d5 (B-SUR)		*65%*	*46-111*			6/9/16 0:31		4165-60-0

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: FB-1 (Continued)
Lab Sample ID: A6F0015-11 (Water)

Sampled:
6/2/16 12:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
SVOCs by Method 8270D (Continued)								
Surrogate: Phenol-d5 (A-SURR)		*73%*	*35-100*			6/9/16 0:31		4165-62-2
Surrogate: Terphenyl-D14 (B-SUR)		*81%*	*46-126*			6/9/16 0:31		1718-51-0
VOCs by Method 8260B								
1,1,1,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	630-20-6
1,1,1-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	71-55-6
1,1,2,2-Tetrachloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	79-34-5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	76-13-1
1,1,2-Trichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	79-00-5
1,1-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	75-34-3
1,1-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	75-35-4
1,1-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	563-58-6
1,2,3-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	87-61-6
1,2,3-Trichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	96-18-4
1,2,4-Trichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	120-82-1
1,2,4-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	95-63-6
1,2-Dibromo-3-Chloropropane (DBCP)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	96-12-8
1,2-Dibromoethane (EDB)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	106-93-4
1,2-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	95-50-1
1,2-Dichloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	107-06-2
1,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	78-87-5
1,3,5-Trimethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	108-67-8
1,3-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	541-73-1
1,3-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	142-28-9
1,4-Dichlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	106-46-7
2,2-Dichloropropane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	590-20-7
2-Chloroethyl vinyl ether	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	110-75-8
2-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	95-49-8
2-Hexanone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	591-78-6
3,3-Dimethyl-1-butanol	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	624-95-3
4-Chlorotoluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	106-43-4
4-Methyl-2-pentanone (MIBK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	108-10-1
Acetone	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	67-64-1
Acrolein	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	107-02-8
Acrylonitrile	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	107-13-1
Benzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	71-43-2
Bromobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	108-86-1
Bromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	74-97-5
Bromodichloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	75-27-4

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: FB-1 (Continued)
Lab Sample ID: A6F0015-11 (Water)

Sampled:
6/2/16 12:00

VOCs by Method 8260B (Continued)

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
Bromoform	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	75-25-2
Bromomethane (Methyl Bromide)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	74-83-9
Carbon disulfide	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	75-15-0
Carbon tetrachloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	56-23-5
Chlorobenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	108-90-7
Chloroethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	75-00-3
Chloroform	**28.8**	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07		67-66-3
Chloromethane (Methyl Chloride)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	74-87-3
cis-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	156-59-4
cis-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	10061-01-5
Cyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	110-82-7
Dibromochloromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	124-48-1
Dibromomethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	74-95-3
Dichlorodifluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U, F	75-71-8
Diethyl Ether (Ethyl Ether)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	60-29-7
2-Butanone (MEK)	ND	50.0	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	78-93-3
Ethyl methacrylate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	97-63-2
Ethylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	100-41-4
Hexachlorobutadiene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	87-68-3
Isopropylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	98-82-8
m,p-Xylenes	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	179601-23-1
Methyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	76-20-9
Methyl tert-butyl ether (MTBE)	ND	10.0	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	1634-04-4
Methylcyclohexane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	108-87-2
Methylene Chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	75-09-2
Naphthalene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	91-20-3
n-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	104-51-8
n-Propylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	103-65-1
o-Xylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	95-47-6
4-Isopropyltoluene (p-Cymene)	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	99-87-6
sec-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	135-98-8
Styrene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	100-42-5
tert-Butylbenzene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	98-06-6
Tetrachloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	127-18-4
Tetrahydrofuran	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	109-99-9
Toluene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	108-88-3
Total Xylenes	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	1330-20-7
trans-1,2-Dichloroethene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	156-60-5
trans-1,3-Dichloropropene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	1006-10-26

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Sample Results
(Continued)

Client Sample ID: FB-1 (Continued)
Lab Sample ID: A6F0015-11 (Water)

Sampled:
6/2/16 12:00

Analyte	Result	RL	Units	Dil	Date Prepared	Date Analyzed	Qual	CAS #
VOCs by Method 8260B (Continued)								
Trichloroethylene	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	79-01-6
Trichlorofluoromethane	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	75-69-4
Vinyl acetate	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	108-05-4
Vinyl chloride	ND	5.00	ug/L	1	6/9/16 12:39	6/9/16 17:07	U	75-01-4
Surrogate: 1,2-Dichloroethane-D4 (SUR)		*154%*	*53-159*			6/9/16 17:07		10706-07-0
Surrogate: 4-Bromofluorobenzene (SUR)		*97%*	*30-186*			6/9/16 17:07		460-00-4
Surrogate: Toluene-D8 (SUR)		*101%*	*70-130*			6/9/16 17:07		2037-26-5

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Quality Control

VOCs by Method 8260B

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0286										
Blank (B6F0286-BLK1)					Prepared & Analyzed: 6/9/2016					
1,1,1,2-Tetrachloroethane	ND	U	5.00	ug/L						
1,1,1-Trichloroethane	ND	U	5.00	ug/L						
1,1,2,2-Tetrachloroethane	ND	U	5.00	ug/L						
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	U	5.00	ug/L						
1,1,2-Trichloroethane	ND	U	5.00	ug/L						
1,1-Dichloroethane	ND	U	5.00	ug/L						
1,1-Dichloroethene	ND	U	5.00	ug/L						
1,1-Dichloropropene	ND	U	5.00	ug/L						
1,2,3-Trichlorobenzene	ND	U	5.00	ug/L						
1,2,3-Trichloropropane	ND	U	5.00	ug/L						
1,2,4-Trichlorobenzene	ND	U	5.00	ug/L						
1,2,4-Trimethylbenzene	ND	U	5.00	ug/L						
1,2-Dibromo-3-Chloropropane (DBCP)	ND	U	5.00	ug/L						
1,2-Dibromoethane (EDB)	ND	U	5.00	ug/L						
1,2-Dichlorobenzene	ND	U	5.00	ug/L						
1,2-Dichloroethane	ND	U	5.00	ug/L						
1,2-Dichloropropane	ND	U	5.00	ug/L						
1,3,5-Trimethylbenzene	ND	U	5.00	ug/L						
1,3-Dichlorobenzene	ND	U	5.00	ug/L						
1,3-Dichloropropane	ND	U	5.00	ug/L						
1,4-Dichlorobenzene	ND	U	5.00	ug/L						
2,2-Dichloropropane	ND	U	5.00	ug/L						
2-Chloroethyl vinyl ether	ND	U	10.0	ug/L						
2-Chlorotoluene	ND	U	5.00	ug/L						
2-Hexanone	ND	U	50.0	ug/L						
3,3-Dimethyl-1-butanol	ND	U	50.0	ug/L						
4-Chlorotoluene	ND	U	5.00	ug/L						
4-Methyl-2-pentanone (MIBK)	ND	U	50.0	ug/L						
Acetone	ND	U	50.0	ug/L						
Acrolein	ND	U	10.0	ug/L						
Acrylonitrile	ND	U	10.0	ug/L						
Benzene	ND	U	5.00	ug/L						
Bromobenzene	ND	U	5.00	ug/L						
Bromochloromethane	ND	U	5.00	ug/L						
Bromodichloromethane	ND	U	5.00	ug/L						
Bromoform	ND	U	5.00	ug/L						
Bromomethane (Methyl Bromide)	ND	U	5.00	ug/L						
Carbon disulfide	ND	U	5.00	ug/L						
Carbon tetrachloride	ND	U	5.00	ug/L						
Chlorobenzene	ND	U	5.00	ug/L						
Chloroethane	ND	U	5.00	ug/L						

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0286 (Continued)										
Blank (B6F0286-BLK1)					Prepared & Analyzed: 6/9/2016					
Chloroform	ND	U	5.00	ug/L						
Chloromethane (Methyl Chloride)	ND	U	5.00	ug/L						
cis-1,2-Dichloroethene	ND	U	5.00	ug/L						
cis-1,3-Dichloropropene	ND	U	5.00	ug/L						
Cyclohexane	ND	U	5.00	ug/L						
Dibromochloromethane	ND	U	5.00	ug/L						
Dibromomethane	ND	U	5.00	ug/L						
Dichlorodifluoromethane	ND	U	5.00	ug/L						
Diethyl Ether (Ethyl Ether)	ND	U	5.00	ug/L						
2-Butanone (MEK)	ND	U	50.0	ug/L						
Ethyl methacrylate	ND	U	5.00	ug/L						
Ethylbenzene	ND	U	5.00	ug/L						
Hexachlorobutadiene	ND	U	5.00	ug/L						
Isopropylbenzene	ND	U	5.00	ug/L						
m,p-Xylenes	ND	U	10.0	ug/L						
Methyl acetate	ND	U	5.00	ug/L						
Methyl tert-butyl ether (MTBE)	ND	U	10.0	ug/L						
Methylcyclohexane	ND	U	5.00	ug/L						
Methylene Chloride	ND	U	5.00	ug/L						
Naphthalene	ND	U	5.00	ug/L						
n-Butylbenzene	ND	U	5.00	ug/L						
n-Propylbenzene	ND	U	5.00	ug/L						
o-Xylene	ND	U	5.00	ug/L						
4-Isopropyltoluene (p-Cymene)	ND	U	5.00	ug/L						
sec-Butylbenzene	ND	U	5.00	ug/L						
Styrene	ND	U	5.00	ug/L						
tert-Butylbenzene	ND	U	5.00	ug/L						
Tetrachloroethylene	ND	U	5.00	ug/L						
Tetrahydrofuran	ND	U	5.00	ug/L						
Toluene	ND	U	5.00	ug/L						
trans-1,2-Dichloroethene	ND	U	5.00	ug/L						
trans-1,3-Dichloropropene	ND	U	5.00	ug/L						
Trichloroethylene	ND	U	5.00	ug/L						
Trichlorofluoromethane	ND	U	5.00	ug/L						
Vinyl acetate	ND	U	5.00	ug/L						
Vinyl chloride	ND	U	5.00	ug/L						
Surrogate: 1,2-Dichloroethane-D4 (SUR)			*74.5*	*ug/L*	*50.0*		*149*	*53-159*		
Surrogate: 4-Bromofluorobenzene (SUR)			*47.5*	*ug/L*	*50.0*		*95*	*30-186*		
Surrogate: Toluene-D8 (SUR)			*51.3*	*ug/L*	*50.0*		*103*	*70-130*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0286 (Continued)										
LCS (B6F0286-BS1)					Prepared & Analyzed: 6/9/2016					
1,1,1,2-Tetrachloroethane	53.1		5.00	ug/L	50.0		106	80-130		
1,1,1-Trichloroethane	55.7		5.00	ug/L	50.0		111	65-130		
1,1,2,2-Tetrachloroethane	44.5		5.00	ug/L	50.0		89	65-130		
1,1,2-Trichloro-1,2,2-trifluoroethane	60.0		5.00	ug/L	50.0		120	65-130		
1,1,2-Trichloroethane	44.2		5.00	ug/L	50.0		88	75-125		
1,1-Dichloroethane	54.8		5.00	ug/L	50.0		110	70-135		
1,1-Dichloroethene	55.8		5.00	ug/L	50.0		112	70-130		
1,1-Dichloropropene	47.0		5.00	ug/L	50.0		94	75-130		
1,2,3-Trichlorobenzene	48.4		5.00	ug/L	50.0		97	55-140		
1,2,3-Trichloropropane	48.2		5.00	ug/L	50.0		96	75-125		
1,2,4-Trichlorobenzene	46.5		5.00	ug/L	50.0		93	65-135		
1,2,4-Trimethylbenzene	49.5		5.00	ug/L	50.0		99	75-130		
1,2-Dibromo-3-Chloropropane (DBCP)	52.2		5.00	ug/L	50.0		104	50-130		
1,2-Dibromoethane (EDB)	48.3		5.00	ug/L	50.0		97	80-120		
1,2-Dichlorobenzene	49.0		5.00	ug/L	50.0		98	70-120		
1,2-Dichloroethane	60.3		5.00	ug/L	50.0		121	70-130		
1,2-Dichloropropane	39.0		5.00	ug/L	50.0		78	75-125		
1,3,5-Trimethylbenzene	49.4		5.00	ug/L	50.0		99	75-130		
1,3-Dichlorobenzene	50.3		5.00	ug/L	50.0		101	75-125		
1,3-Dichloropropane	47.2		5.00	ug/L	50.0		94	75-125		
1,4-Dichlorobenzene	49.0		5.00	ug/L	50.0		98	75-125		
2,2-Dichloropropane	48.5		5.00	ug/L	50.0		97	70-130		
2-Chloroethyl vinyl ether	98.8		10.0	ug/L	100		99	40-145		
2-Chlorotoluene	49.2		5.00	ug/L	50.0		98	75-125		
2-Hexanone	81.3		50.0	ug/L	100		81	55-130		
3,3-Dimethyl-1-butanol	425		50.0	ug/L	500		85	70-130		
4-Chlorotoluene	50.6		5.00	ug/L	50.0		101	75-130		
4-Methyl-2-pentanone (MIBK)	80.3		50.0	ug/L	100		80	60-135		
Acetone	116		50.0	ug/L	100		116	40-140		
Acrolein	92.6		10.0	ug/L	100		93	40-140		
Acrylonitrile	97.9		10.0	ug/L	100		98	40-140		
Benzene	42.9		5.00	ug/L	50.0		86	80-120		
Bromobenzene	46.8		5.00	ug/L	50.0		94	75-125		
Bromochloromethane	43.4		5.00	ug/L	50.0		87	65-130		
Bromodichloromethane	51.5		5.00	ug/L	50.0		103	75-120		
Bromoform	50.6		5.00	ug/L	50.0		101	70-130		
Bromomethane (Methyl Bromide)	47.5		5.00	ug/L	50.0		95	30-145		
Carbon disulfide	54.4		5.00	ug/L	50.0		109	35-160		
Carbon tetrachloride	57.1		5.00	ug/L	50.0		114	65-140		
Chlorobenzene	48.4		5.00	ug/L	50.0		97	80-120		
Chloroethane	60.5		5.00	ug/L	50.0		121	60-135		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0286 (Continued)										
LCS (B6F0286-BS1)					Prepared & Analyzed: 6/9/2016					
Chloroform	51.3		5.00	ug/L	50.0		103	65-135		
Chloromethane (Methyl Chloride)	33.6		5.00	ug/L	50.0		67	40-125		
cis-1,2-Dichloroethene	40.8		5.00	ug/L	50.0		82	70-125		
cis-1,3-Dichloropropene	47.6		5.00	ug/L	50.0		95	70-130		
Cyclohexane	36.5		5.00	ug/L	50.0		73	65-135		
Dibromochloromethane	54.1		5.00	ug/L	50.0		108	60-135		
Dibromomethane	47.8		5.00	ug/L	50.0		96	75-125		
Dichlorodifluoromethane	56.2		5.00	ug/L	50.0		112	30-155		
Diethyl Ether (Ethyl Ether)	50.5		5.00	ug/L	50.0		101	70-130		
2-Butanone (MEK)	74.2		50.0	ug/L	100		74	70-135		
Ethyl methacrylate	43.4		5.00	ug/L	50.0		87	65-135		
Ethylbenzene	49.0		5.00	ug/L	50.0		98	75-125		
Hexachlorobutadiene	54.2		5.00	ug/L	50.0		108	50-140		
Isopropylbenzene	46.3		5.00	ug/L	50.0		93	75-125		
m,p-Xylenes	96.3		10.0	ug/L	100		96	75-130		
Methyl acetate	48.9		5.00	ug/L	50.0		98	65-135		
Methyl tert-butyl ether (MTBE)	109		10.0	ug/L	100		109	65-125		
Methylcyclohexane	42.0		5.00	ug/L	50.0		84	65-135		
Methylene Chloride	55.8		5.00	ug/L	50.0		112	65-137		
Naphthalene	44.9		5.00	ug/L	50.0		90	55-140		
n-Butylbenzene	49.1		5.00	ug/L	50.0		98	70-130		
n-Propylbenzene	46.5		5.00	ug/L	50.0		93	70-130		
o-Xylene	46.5		5.00	ug/L	50.0		93	80-120		
4-Isopropyltoluene (p-Cymene)	49.2		5.00	ug/L	50.0		98	40-125		
sec-Butylbenzene	47.1		5.00	ug/L	50.0		94	70-125		
Styrene	49.5		5.00	ug/L	50.0		99	65-135		
tert-Butylbenzene	50.5		5.00	ug/L	50.0		101	70-130		
Tetrachloroethylene	31.1		5.00	ug/L	50.0		62	45-150		
Tetrahydrofuran	35.2		5.00	ug/L	50.0		70	70-130		
Toluene	44.7		5.00	ug/L	50.0		89	75-120		
trans-1,2-Dichloroethene	53.8		5.00	ug/L	50.0		108	60-140		
trans-1,3-Dichloropropene	53.4		5.00	ug/L	50.0		107	55-140		
Trichloroethylene	44.6		5.00	ug/L	50.0		89	70-125		
Trichlorofluoromethane	69.9		5.00	ug/L	50.0		140	60-145		
Vinyl acetate	62.1		5.00	ug/L	50.0		124	65-135		
Vinyl chloride	43.2		5.00	ug/L	50.0		86	50-145		
Surrogate: 1,2-Dichloroethane-D4 (SUR)			*63.6*	*ug/L*	*50.0*		*127*	*53-159*		
Surrogate: 4-Bromofluorobenzene (SUR)			*45.9*	*ug/L*	*50.0*		*92*	*30-186*		
Surrogate: Toluene-D8 (SUR)			*49.4*	*ug/L*	*50.0*		*99*	*70-130*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0286 (Continued)										
LCS Dup (B6F0286-BSD1)					Prepared & Analyzed: 6/9/2016					
1,1,1,2-Tetrachloroethane	51.3		5.00	ug/L	50.0		103	80-130	3	20
1,1,1-Trichloroethane	54.8		5.00	ug/L	50.0		110	65-130	2	20
1,1,2,2-Tetrachloroethane	46.5		5.00	ug/L	50.0		93	65-130	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	52.4		5.00	ug/L	50.0		105	65-130	14	20
1,1,2-Trichloroethane	43.3		5.00	ug/L	50.0		87	75-125	2	20
1,1-Dichloroethane	54.0		5.00	ug/L	50.0		108	70-135	1	20
1,1-Dichloroethene	53.7		5.00	ug/L	50.0		107	70-130	4	20
1,1-Dichloropropene	44.4		5.00	ug/L	50.0		89	75-130	6	20
1,2,3-Trichlorobenzene	49.4		5.00	ug/L	50.0		99	55-140	2	20
1,2,3-Trichloropropane	50.4		5.00	ug/L	50.0		101	75-125	4	20
1,2,4-Trichlorobenzene	46.5		5.00	ug/L	50.0		93	65-135	0.02	20
1,2,4-Trimethylbenzene	48.5		5.00	ug/L	50.0		97	75-130	2	20
1,2-Dibromo-3-Chloropropane (DBCP)	54.8		5.00	ug/L	50.0		110	50-130	5	20
1,2-Dibromoethane (EDB)	48.0		5.00	ug/L	50.0		96	80-120	0.6	20
1,2-Dichlorobenzene	49.1		5.00	ug/L	50.0		98	70-120	0.1	20
1,2-Dichloroethane	58.2		5.00	ug/L	50.0		116	70-130	3	20
1,2-Dichloropropane	37.8		5.00	ug/L	50.0		76	75-125	3	20
1,3,5-Trimethylbenzene	49.2		5.00	ug/L	50.0		98	75-130	0.4	20
1,3-Dichlorobenzene	49.7		5.00	ug/L	50.0		99	75-125	1	20
1,3-Dichloropropane	46.6		5.00	ug/L	50.0		93	75-125	1	20
1,4-Dichlorobenzene	48.6		5.00	ug/L	50.0		97	75-125	1	20
2,2-Dichloropropane	50.0		5.00	ug/L	50.0		100	70-130	3	20
2-Chloroethyl vinyl ether	106		10.0	ug/L	100		106	40-145	7	20
2-Chlorotoluene	49.0		5.00	ug/L	50.0		98	75-125	0.4	20
2-Hexanone	84.1		50.0	ug/L	100		84	55-130	3	20
3,3-Dimethyl-1-butanol	446		50.0	ug/L	500		89	70-130	5	20
4-Chlorotoluene	50.3		5.00	ug/L	50.0		101	75-130	0.7	20
4-Methyl-2-pentanone (MIBK)	83.9		50.0	ug/L	100		84	60-135	4	20
Acetone	120		50.0	ug/L	100		120	40-140	4	20
Acrolein	105		10.0	ug/L	100		105	40-140	12	20
Acrylonitrile	103		10.0	ug/L	100		103	40-140	5	20
Benzene	41.7		5.00	ug/L	50.0		83	80-120	3	20
Bromobenzene	47.2		5.00	ug/L	50.0		94	75-125	0.7	20
Bromochloromethane	43.0		5.00	ug/L	50.0		86	65-130	1	20
Bromodichloromethane	50.3		5.00	ug/L	50.0		101	75-120	2	20
Bromoform	52.3		5.00	ug/L	50.0		105	70-130	3	20
Bromomethane (Methyl Bromide)	47.8		5.00	ug/L	50.0		96	30-145	0.6	20
Carbon disulfide	53.0		5.00	ug/L	50.0		106	35-160	3	20
Carbon tetrachloride	54.0		5.00	ug/L	50.0		108	65-140	6	20
Chlorobenzene	46.8		5.00	ug/L	50.0		94	80-120	3	20
Chloroethane	57.7		5.00	ug/L	50.0		115	60-135	5	20

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0286 (Continued)										
LCS Dup (B6F0286-BSD1)					Prepared & Analyzed: 6/9/2016					
Chloroform	51.5		5.00	ug/L	50.0		103	65-135	0.5	20
Chloromethane (Methyl Chloride)	31.8		5.00	ug/L	50.0		64	40-125	6	20
cis-1,2-Dichloroethene	40.8		5.00	ug/L	50.0		82	70-125	0.07	20
cis-1,3-Dichloropropene	46.3		5.00	ug/L	50.0		93	70-130	3	20
Cyclohexane	33.3		5.00	ug/L	50.0		67	65-135	9	20
Dibromochloromethane	53.4		5.00	ug/L	50.0		107	60-135	1	20
Dibromomethane	46.2		5.00	ug/L	50.0		92	75-125	3	20
Dichlorodifluoromethane	43.6	X	5.00	ug/L	50.0		87	30-155	25	20
Diethyl Ether (Ethyl Ether)	51.2		5.00	ug/L	50.0		102	70-130	1	20
2-Butanone (MEK)	80.1		50.0	ug/L	100		80	70-135	8	20
Ethyl methacrylate	43.7		5.00	ug/L	50.0		87	65-135	0.7	20
Ethylbenzene	47.4		5.00	ug/L	50.0		95	75-125	3	20
Hexachlorobutadiene	54.1		5.00	ug/L	50.0		108	50-140	0.2	20
Isopropylbenzene	46.4		5.00	ug/L	50.0		93	75-125	0.2	20
m,p-Xylenes	92.7		10.0	ug/L	100		93	75-130	4	20
Methyl acetate	51.6		5.00	ug/L	50.0		103	65-135	5	20
Methyl tert-butyl ether (MTBE)	110		10.0	ug/L	100		110	65-125	1	20
Methylcyclohexane	39.1		5.00	ug/L	50.0		78	65-135	7	20
Methylene Chloride	54.8		5.00	ug/L	50.0		110	65-137	2	20
Naphthalene	46.1		5.00	ug/L	50.0		92	55-140	3	20
n-Butylbenzene	48.5		5.00	ug/L	50.0		97	70-130	1	20
n-Propylbenzene	46.8		5.00	ug/L	50.0		94	70-130	0.6	20
o-Xylene	43.8		5.00	ug/L	50.0		88	80-120	6	20
4-Isopropyltoluene (p-Cymene)	49.8		5.00	ug/L	50.0		100	40-125	1	20
sec-Butylbenzene	47.4		5.00	ug/L	50.0		95	70-125	0.8	20
Styrene	48.0		5.00	ug/L	50.0		96	65-135	3	20
tert-Butylbenzene	51.2		5.00	ug/L	50.0		102	70-130	1	20
Tetrachloroethylene	28.9		5.00	ug/L	50.0		58	45-150	7	20
Tetrahydrofuran	36.9		5.00	ug/L	50.0		74	70-130	5	20
Toluene	43.1		5.00	ug/L	50.0		86	75-120	4	20
trans-1,2-Dichloroethene	52.3		5.00	ug/L	50.0		105	60-140	3	20
trans-1,3-Dichloropropene	52.3		5.00	ug/L	50.0		105	55-140	2	20
Trichloroethylene	42.4		5.00	ug/L	50.0		85	70-125	5	20
Trichlorofluoromethane	59.0		5.00	ug/L	50.0		118	60-145	17	20
Vinyl acetate	62.8		5.00	ug/L	50.0		126	65-135	1	20
Vinyl chloride	40.9		5.00	ug/L	50.0		82	50-145	5	20
Surrogate: 1,2-Dichloroethane-D4 (SUR)			*62.7*	*ug/L*	*50.0*		*125*	*53-159*		
Surrogate: 4-Bromofluorobenzene (SUR)			*47.1*	*ug/L*	*50.0*		*94*	*30-186*		
Surrogate: Toluene-D8 (SUR)			*49.1*	*ug/L*	*50.0*		*98*	*70-130*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0286 (Continued)										
Matrix Spike (B6F0286-MS1)		**Source: A6F0015-02**			Prepared: 6/9/2016 Analyzed: 6/10/2016					
1,1,1,2-Tetrachloroethane	50.8		5.00	ug/L	50.0	ND	102	54-129		
1,1,1-Trichloroethane	53.6		5.00	ug/L	50.0	ND	107	59-138		
1,1,2,2-Tetrachloroethane	45.0		5.00	ug/L	50.0	ND	90	63-126		
1,1,2-Trichloro-1,2,2-trifluoroethane	56.6		5.00	ug/L	50.0	ND	113	53-138		
1,1,2-Trichloroethane	44.6		5.00	ug/L	50.0	ND	89	62-115		
1,1-Dichloroethane	54.8		5.00	ug/L	50.0	ND	110	69-132		
1,1-Dichloroethene	55.2		5.00	ug/L	50.0	ND	110	62-131		
1,1-Dichloropropene	44.7		5.00	ug/L	50.0	ND	89	74-123		
1,2,3-Trichlorobenzene	43.1		5.00	ug/L	50.0	ND	86	48-122		
1,2,3-Trichloropropane	47.5		5.00	ug/L	50.0	ND	95	59-119		
1,2,4-Trichlorobenzene	42.6		5.00	ug/L	50.0	ND	85	34-131		
1,2,4-Trimethylbenzene	49.3		5.00	ug/L	50.0	ND	99	47-139		
1,2-Dibromo-3-Chloropropane (DBCP)	50.7		5.00	ug/L	50.0	ND	101	50-130		
1,2-Dibromoethane (EDB)	47.2		5.00	ug/L	50.0	ND	94	80-120		
1,2-Dichlorobenzene	45.8		5.00	ug/L	50.0	ND	92	70-120		
1,2-Dichloroethane	57.4		5.00	ug/L	50.0	ND	115	70-130		
1,2-Dichloropropane	36.8	X	5.00	ug/L	50.0	ND	74	75-125		
1,3,5-Trimethylbenzene	47.7		5.00	ug/L	50.0	ND	95	53-129		
1,3-Dichlorobenzene	46.8		5.00	ug/L	50.0	ND	94	62-120		
1,3-Dichloropropane	45.4		5.00	ug/L	50.0	ND	91	66-123		
1,4-Dichlorobenzene	45.9		5.00	ug/L	50.0	ND	92	64-114		
2,2-Dichloropropane	41.8		5.00	ug/L	50.0	ND	84	40-159		
2-Chloroethyl vinyl ether	11.4	X	10.0	ug/L	100	ND	11	40-145		
2-Chlorotoluene	46.6		5.00	ug/L	50.0	ND	93	60-129		
2-Hexanone	79.8		50.0	ug/L	100	ND	80	55-136		
3,3-Dimethyl-1-butanol	403		50.0	ug/L	500	ND	81	70-130		
4-Chlorotoluene	47.4		5.00	ug/L	50.0	ND	95	64-124		
4-Methyl-2-pentanone (MIBK)	80.0		50.0	ug/L	100	ND	80	65-132		
Acetone	114		50.0	ug/L	100	7.59	107	40-140		
Acrolein	102		10.0	ug/L	100	ND	102	40-140		
Acrylonitrile	102		10.0	ug/L	100	ND	102	37-160		
Benzene	40.1		5.00	ug/L	50.0	ND	80	77-118		
Bromobenzene	45.0		5.00	ug/L	50.0	ND	90	66-121		
Bromochloromethane	44.9		5.00	ug/L	50.0	ND	90	64-130		
Bromodichloromethane	48.3		5.00	ug/L	50.0	ND	97	68-125		
Bromoform	47.3		5.00	ug/L	50.0	ND	95	53-112		
Bromomethane (Methyl Bromide)	50.0		5.00	ug/L	50.0	ND	100	30-145		
Carbon disulfide	52.3		5.00	ug/L	50.0	ND	105	26-147		
Carbon tetrachloride	53.7		5.00	ug/L	50.0	ND	107	56-138		
Chlorobenzene	46.6		5.00	ug/L	50.0	ND	93	71-114		
Chloroethane	56.1		5.00	ug/L	50.0	ND	112	60-137		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0286 (Continued)										
Matrix Spike (B6F0286-MS1)		**Source: A6F0015-02**			Prepared: 6/9/2016 Analyzed: 6/10/2016					
Chloroform	49.4		5.00	ug/L	50.0	ND	99	65-131		
Chloromethane (Methyl Chloride)	31.1		5.00	ug/L	50.0	ND	62	48-151		
cis-1,2-Dichloroethene	41.7		5.00	ug/L	50.0	ND	83	22-185		
cis-1,3-Dichloropropene	41.8		5.00	ug/L	50.0	ND	84	67-113		
Cyclohexane	34.5		5.00	ug/L	50.0	ND	69	65-135		
Dibromochloromethane	51.0		5.00	ug/L	50.0	ND	102	53-125		
Dibromomethane	45.0		5.00	ug/L	50.0	ND	90	75-125		
Dichlorodifluoromethane	51.1		5.00	ug/L	50.0	ND	102	30-155		
Diethyl Ether (Ethyl Ether)	51.1		5.00	ug/L	50.0	ND	102	66-134		
2-Butanone (MEK)	79.5		50.0	ug/L	100	ND	80	59-131		
Ethyl methacrylate	41.8		5.00	ug/L	50.0	ND	84	62-121		
Ethylbenzene	47.3		5.00	ug/L	50.0	ND	95	66-127		
Hexachlorobutadiene	43.7		5.00	ug/L	50.0	ND	87	50-122		
Isopropylbenzene	43.8		5.00	ug/L	50.0	ND	88	58-127		
m,p-Xylenes	97.3		10.0	ug/L	100	ND	97	65-126		
Methyl acetate	45.2		5.00	ug/L	50.0	ND	90	65-135		
Methyl tert-butyl ether (MTBE)	108		10.0	ug/L	100	ND	108	58-141		
Methylcyclohexane	38.7		5.00	ug/L	50.0	ND	77	65-135		
Methylene Chloride	55.3		5.00	ug/L	50.0	ND	111	34-157		
Naphthalene	43.4		5.00	ug/L	50.0	ND	87	30-148		
n-Butylbenzene	43.4		5.00	ug/L	50.0	ND	87	63-122		
n-Propylbenzene	43.1		5.00	ug/L	50.0	ND	86	64-127		
o-Xylene	45.8		5.00	ug/L	50.0	ND	92	64-123		
4-Isopropyltoluene (p-Cymene)	45.3		5.00	ug/L	50.0	ND	91	64-135		
sec-Butylbenzene	44.3		5.00	ug/L	50.0	ND	89	59-124		
Styrene	47.9		5.00	ug/L	50.0	ND	96	50-133		
tert-Butylbenzene	48.1		5.00	ug/L	50.0	ND	96	58-125		
Tetrachloroethylene	27.8		5.00	ug/L	50.0	ND	56	52-125		
Tetrahydrofuran	33.2		5.00	ug/L	50.0	ND	66	48-155		
Toluene	43.3		5.00	ug/L	50.0	ND	87	65-123		
trans-1,2-Dichloroethene	53.6		5.00	ug/L	50.0	ND	107	65-135		
trans-1,3-Dichloropropene	48.9		5.00	ug/L	50.0	ND	98	50-125		
Trichloroethylene	42.8		5.00	ug/L	50.0	ND	86	65-125		
Trichlorofluoromethane	66.1		5.00	ug/L	50.0	ND	132	51-145		
Vinyl acetate	55.6		5.00	ug/L	50.0	ND	111	49-135		
Vinyl chloride	43.3		5.00	ug/L	50.0	ND	87	52-140		
Surrogate: 1,2-Dichloroethane-D4 (SUR)			*62.0*	*ug/L*	*50.0*		*124*	*53-159*		
Surrogate: 4-Bromofluorobenzene (SUR)			*45.5*	*ug/L*	*50.0*		*91*	*30-186*		
Surrogate: Toluene-D8 (SUR)			*48.1*	*ug/L*	*50.0*		*96*	*70-130*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0286 (Continued)										
Matrix Spike Dup (B6F0286-MSD1)		**Source: A6F0015-02**			Prepared: 6/9/2016 Analyzed: 6/10/2016					
1,1,1,2-Tetrachloroethane	49.1		5.00	ug/L	50.0	ND	98	54-129	3	20
1,1,1-Trichloroethane	51.0		5.00	ug/L	50.0	ND	102	59-138	5	20
1,1,2,2-Tetrachloroethane	44.0		5.00	ug/L	50.0	ND	88	63-126	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	52.3		5.00	ug/L	50.0	ND	105	53-138	8	20
1,1,2-Trichloroethane	42.4		5.00	ug/L	50.0	ND	85	62-115	5	20
1,1-Dichloroethane	51.3		5.00	ug/L	50.0	ND	103	69-132	7	20
1,1-Dichloroethene	52.9		5.00	ug/L	50.0	ND	106	62-131	4	20
1,1-Dichloropropene	42.5		5.00	ug/L	50.0	ND	85	74-123	5	20
1,2,3-Trichlorobenzene	43.8		5.00	ug/L	50.0	ND	88	48-122	1	20
1,2,3-Trichloropropane	46.9		5.00	ug/L	50.0	ND	94	59-119	1	20
1,2,4-Trichlorobenzene	41.7		5.00	ug/L	50.0	ND	83	34-131	2	20
1,2,4-Trimethylbenzene	45.9		5.00	ug/L	50.0	ND	92	47-139	7	20
1,2-Dibromo-3-Chloropropane (DBCP)	50.8		5.00	ug/L	50.0	ND	102	50-130	0.3	20
1,2-Dibromoethane (EDB)	45.9		5.00	ug/L	50.0	ND	92	80-120	3	20
1,2-Dichlorobenzene	45.6		5.00	ug/L	50.0	ND	91	70-120	0.3	20
1,2-Dichloroethane	54.1		5.00	ug/L	50.0	ND	108	70-130	6	20
1,2-Dichloropropane	37.1	X	5.00	ug/L	50.0	ND	74	75-125	0.8	20
1,3,5-Trimethylbenzene	45.3		5.00	ug/L	50.0	ND	91	53-129	5	20
1,3-Dichlorobenzene	45.8		5.00	ug/L	50.0	ND	92	62-120	2	20
1,3-Dichloropropane	44.9		5.00	ug/L	50.0	ND	90	66-123	1	20
1,4-Dichlorobenzene	44.5		5.00	ug/L	50.0	ND	89	64-114	3	20
2,2-Dichloropropane	38.2		5.00	ug/L	50.0	ND	76	40-159	9	20
2-Chloroethyl vinyl ether	12.7	X	10.0	ug/L	100	ND	13	40-145	11	20
2-Chlorotoluene	45.0		5.00	ug/L	50.0	ND	90	60-129	3	20
2-Hexanone	79.3		50.0	ug/L	100	ND	79	55-136	0.6	20
3,3-Dimethyl-1-butanol	414		50.0	ug/L	500	ND	83	70-130	3	20
4-Chlorotoluene	45.9		5.00	ug/L	50.0	ND	92	64-124	3	20
4-Methyl-2-pentanone (MIBK)	78.4		50.0	ug/L	100	ND	78	65-132	2	20
Acetone	109		50.0	ug/L	100	7.59	101	40-140	5	20
Acrolein	96.0		10.0	ug/L	100	ND	96	40-140	6	20
Acrylonitrile	98.7		10.0	ug/L	100	ND	99	37-160	3	20
Benzene	39.4		5.00	ug/L	50.0	ND	79	77-118	2	20
Bromobenzene	43.8		5.00	ug/L	50.0	ND	88	66-121	3	20
Bromochloromethane	41.5		5.00	ug/L	50.0	ND	83	64-130	8	20
Bromodichloromethane	47.6		5.00	ug/L	50.0	ND	95	68-125	2	20
Bromoform	46.8		5.00	ug/L	50.0	ND	94	53-112	1	20
Bromomethane (Methyl Bromide)	45.7		5.00	ug/L	50.0	ND	91	30-145	9	20
Carbon disulfide	49.3		5.00	ug/L	50.0	ND	99	26-147	6	20
Carbon tetrachloride	52.3		5.00	ug/L	50.0	ND	105	56-138	3	20
Chlorobenzene	44.8		5.00	ug/L	50.0	ND	90	71-114	4	20
Chloroethane	49.4		5.00	ug/L	50.0	ND	99	60-137	13	20

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Quality Control
(Continued)

VOCs by Method 8260B (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0286 (Continued)										
Matrix Spike Dup (B6F0286-MSD1)		**Source: A6F0015-02**			Prepared: 6/9/2016 Analyzed: 6/10/2016					
Chloroform	49.0		5.00	ug/L	50.0	ND	98	65-131	0.8	20
Chloromethane (Methyl Chloride)	31.3		5.00	ug/L	50.0	ND	63	48-151	0.6	20
cis-1,2-Dichloroethene	39.0		5.00	ug/L	50.0	ND	78	22-185	7	20
cis-1,3-Dichloropropene	40.2		5.00	ug/L	50.0	ND	80	67-113	4	20
Cyclohexane	34.2		5.00	ug/L	50.0	ND	68	65-135	0.9	20
Dibromochloromethane	49.6		5.00	ug/L	50.0	ND	99	53-125	3	20
Dibromomethane	44.1		5.00	ug/L	50.0	ND	88	75-125	2	20
Dichlorodifluoromethane	47.8		5.00	ug/L	50.0	ND	96	30-155	7	20
Diethyl Ether (Ethyl Ether)	48.2		5.00	ug/L	50.0	ND	96	66-134	6	20
2-Butanone (MEK)	76.7		50.0	ug/L	100	ND	77	59-131	4	20
Ethyl methacrylate	41.2		5.00	ug/L	50.0	ND	82	62-121	1	20
Ethylbenzene	45.4		5.00	ug/L	50.0	ND	91	66-127	4	20
Hexachlorobutadiene	45.4		5.00	ug/L	50.0	ND	91	50-122	4	20
Isopropylbenzene	42.8		5.00	ug/L	50.0	ND	86	58-127	2	20
m,p-Xylenes	90.0		10.0	ug/L	100	ND	90	65-126	8	20
Methyl acetate	44.3		5.00	ug/L	50.0	ND	89	65-135	2	20
Methyl tert-butyl ether (MTBE)	103		10.0	ug/L	100	ND	103	58-141	5	20
Methylcyclohexane	37.4		5.00	ug/L	50.0	ND	75	65-135	4	20
Methylene Chloride	51.1		5.00	ug/L	50.0	ND	102	34-157	8	20
Naphthalene	43.9		5.00	ug/L	50.0	ND	88	30-148	1	20
n-Butylbenzene	42.2		5.00	ug/L	50.0	ND	84	63-122	3	20
n-Propylbenzene	42.3		5.00	ug/L	50.0	ND	85	64-127	2	20
o-Xylene	44.2		5.00	ug/L	50.0	ND	88	64-123	4	20
4-Isopropyltoluene (p-Cymene)	44.0		5.00	ug/L	50.0	ND	88	64-135	3	20
sec-Butylbenzene	42.7		5.00	ug/L	50.0	ND	85	59-124	4	20
Styrene	45.8		5.00	ug/L	50.0	ND	92	50-133	5	20
tert-Butylbenzene	46.9		5.00	ug/L	50.0	ND	94	58-125	2	20
Tetrachloroethylene	26.4		5.00	ug/L	50.0	ND	53	52-125	5	20
Tetrahydrofuran	35.4		5.00	ug/L	50.0	ND	71	48-155	6	20
Toluene	41.8		5.00	ug/L	50.0	ND	84	65-123	4	20
trans-1,2-Dichloroethene	49.2		5.00	ug/L	50.0	ND	98	65-135	9	20
trans-1,3-Dichloropropene	47.0		5.00	ug/L	50.0	ND	94	50-125	4	20
Trichloroethylene	41.0		5.00	ug/L	50.0	ND	82	65-125	4	20
Trichlorofluoromethane	64.4		5.00	ug/L	50.0	ND	129	51-145	3	20
Vinyl acetate	52.6		5.00	ug/L	50.0	ND	105	49-135	6	20
Vinyl chloride	38.9		5.00	ug/L	50.0	ND	78	52-140	11	20
Surrogate: 1,2-Dichloroethane-D4 (SUR)			*60.6*	*ug/L*	*50.0*		*121*	*53-159*		
Surrogate: 4-Bromofluorobenzene (SUR)			*46.0*	*ug/L*	*50.0*		*92*	*30-186*		
Surrogate: Toluene-D8 (SUR)			*49.3*	*ug/L*	*50.0*		*99*	*70-130*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Quality Control
(Continued)

SVOCs by Method 8270D

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0185										
Blank (B6F0185-BLK1)					Prepared & Analyzed: 6/8/2016					
1,2,4-Trichlorobenzene	ND	U	10.0	ug/L						
1,2-Dichlorobenzene	ND	U	10.0	ug/L						
1,3-Dichlorobenzene	ND	U	10.0	ug/L						
1,4-Dichlorobenzene	ND	U	10.0	ug/L						
2,4,5-Trichlorophenol	ND	U	10.0	ug/L						
2,4,6-Trichlorophenol	ND	U	10.0	ug/L						
2,4-Dichlorophenol	ND	U	10.0	ug/L						
2,4-Dimethylphenol	ND	U	10.0	ug/L						
2,4-Dinitrophenol	ND	U	10.0	ug/L						
2,4-Dinitrotoluene	ND	U	10.0	ug/L						
2,6-Dinitrotoluene	ND	U	10.0	ug/L						
2-Chloronaphthalene	ND	U	10.0	ug/L						
2-Chlorophenol	ND	U	10.0	ug/L						
2-Methylnaphthalene	ND	U	10.0	ug/L						
2-Methylphenol	ND	U	10.0	ug/L						
2-Nitroaniline	ND	U	10.0	ug/L						
2-Nitrophenol	ND	U	10.0	ug/L						
3&4-Methylphenol	ND	U	10.0	ug/L						
3,3-Dichlorobenzidine	ND	U	10.0	ug/L						
4-Bromophenyl-phenylether	ND	U	10.0	ug/L						
4-chloro-3-methylphenol	ND	U	10.0	ug/L						
4-Nitrophenol	ND	U	10.0	ug/L						
Acenaphthene	ND	U	10.0	ug/L						
Acenaphthylene	ND	U	10.0	ug/L						
Aniline (Phenylamine, Aminobenzene)	ND	U	10.0	ug/L						
Anthracene	ND	U	10.0	ug/L						
Benzo(a)anthracene	ND	U	10.0	ug/L						
Benzo(a)pyrene	ND	U	10.0	ug/L						
Benzo(b)fluoranthene	ND	U	10.0	ug/L						
Benzo(g,h,i)perylene	ND	U	10.0	ug/L						
Benzo(k)fluoranthene	ND	U	10.0	ug/L						
Benzoic Acid	ND	U	10.0	ug/L						
Benzyl Alcohol	ND	U	10.0	ug/L						
Butyl Benzyl Phthalate	ND	U	10.0	ug/L						
bis(2-chloroethoxy) methane	ND	U	10.0	ug/L						
bis(2-chloroethyl) ether	ND	U	10.0	ug/L						
bis(2-chloroisopropyl) ether	ND	U	10.0	ug/L						
bis(2-ethylhexyl) phthalate	ND	U	10.0	ug/L						
Chrysene	ND	U	10.0	ug/L						
Dibenz(a,h)anthracene	ND	U	10.0	ug/L						
Dibenzofuran	ND	U	10.0	ug/L						

Cardno -Marietta	Project: 1055 Arden Avenue	
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Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0185 (Continued)										
Blank (B6F0185-BLK1)					Prepared & Analyzed: 6/8/2016					
Diethyl Phthalate	ND	U	10.0	ug/L						
Dimethyl Phthalate	ND	U	10.0	ug/L						
di-n-Butyl Phthalate	ND	U	10.0	ug/L						
di-n-Octyl Phthalate	ND	U	10.0	ug/L						
Fluoranthene	ND	U	10.0	ug/L						
Fluorene	ND	U	10.0	ug/L						
Hexachlorobenzene	ND	U	10.0	ug/L						
Hexachlorobutadiene	ND	U	10.0	ug/L						
Hexachlorocyclopentadiene	ND	U	10.0	ug/L						
Hexachloroethane	ND	U	10.0	ug/L						
Indeno(1,2,3-cd)pyrene	ND	U	10.0	ug/L						
Isophorone	ND	U	10.0	ug/L						
Naphthalene	ND	U	10.0	ug/L						
Nitrobenzene	ND	U	10.0	ug/L						
N-Nitrosodimethylamine	ND	U	10.0	ug/L						
N-Nitrosodi-n-Propylamine	ND	U	10.0	ug/L						
N-Nitrosodiphenylamine	ND	U	10.0	ug/L						
Pentachlorophenol	ND	U	10.0	ug/L						
Phenanthrene	ND	U	10.0	ug/L						
Phenol	ND	U	10.0	ug/L						
Pyrene	ND	U	10.0	ug/L						
Surrogate: 2,4,6-Tribromophenol (A-SUR)			*90.2*	*ug/L*	*100*		*90*	*48-117*		
Surrogate: 2-Fluorobiphenyl (B-SUR)			*40.0*	*ug/L*	*50.0*		*80*	*44-117*		
Surrogate: 2-Fluorophenol (A-SUR)			*76.4*	*ug/L*	*100*		*76*	*30-100*		
Surrogate: Nitrobenzene-d5 (B-SUR)			*35.7*	*ug/L*	*50.0*		*71*	*46-111*		
Surrogate: Phenol-d5 (A-SURR)			*79.0*	*ug/L*	*100*		*79*	*35-100*		
Surrogate: Terphenyl-D14 (B-SUR)			*42.2*	*ug/L*	*50.0*		*84*	*46-126*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0185 (Continued)										
LCS (B6F0185-BS1)					Prepared & Analyzed: 6/8/2016					
1,2,4-Trichlorobenzene	37.7		10.0	ug/L	50.0		75	34-117		
1,2-Dichlorobenzene	36.8		10.0	ug/L	50.0		74	38-111		
1,3-Dichlorobenzene	36.4		10.0	ug/L	50.0		73	37-111		
1,4-Dichlorobenzene	34.7		10.0	ug/L	50.0		69	37-111		
2,4,5-Trichlorophenol	35.2		10.0	ug/L	50.0		70	39-125		
2,4,6-Trichlorophenol	38.2		10.0	ug/L	50.0		76	42-125		
2,4-Dichlorophenol	36.8		10.0	ug/L	50.0		74	38-120		
2,4-Dimethylphenol	38.5		10.0	ug/L	50.0		77	39-117		
2,4-Dinitrophenol	20.6		10.0	ug/L	50.0		41	13-152		
2,4-Dinitrotoluene	44.1		10.0	ug/L	50.0		88	41-128		
2,6-Dinitrotoluene	42.6		10.0	ug/L	50.0		85	42-127		
2-Chloronaphthalene	40.6		10.0	ug/L	50.0		81	40-118		
2-Chlorophenol	37.5		10.0	ug/L	50.0		75	41-108		
2-Methylnaphthalene	39.5		10.0	ug/L	50.0		79	37-112		
2-Methylphenol	38.9		10.0	ug/L	50.0		78	36-105		
2-Nitroaniline	43.5		10.0	ug/L	50.0		87	34-121		
2-Nitrophenol	36.0		10.0	ug/L	50.0		72	38-125		
3&4-Methylphenol	42.2		10.0	ug/L	50.0		84	35-96		
4-Bromophenyl-phenylether	40.3		10.0	ug/L	50.0		81	40-126		
4-chloro-3-methylphenol	38.8		10.0	ug/L	50.0		78	40-119		
4-Nitrophenol	27.4		10.0	ug/L	50.0		55	14-82		
Acenaphthene	40.1		10.0	ug/L	50.0		80	41-116		
Acenaphthylene	43.3		10.0	ug/L	50.0		87	42-126		
Aniline (Phenylamine, Aminobenzene)	59.7	X	10.0	ug/L	50.0		119	31-100		
Anthracene	47.4		10.0	ug/L	50.0		95	39-127		
Benzo(a)anthracene	45.7		10.0	ug/L	50.0		91	40-129		
Benzo(a)pyrene	56.7		10.0	ug/L	50.0		113	36-141		
Benzo(b)fluoranthene	51.8		10.0	ug/L	50.0		104	34-139		
Benzo(g,h,i)perylene	51.9		10.0	ug/L	50.0		104	32-141		
Benzo(k)fluoranthene	52.6		10.0	ug/L	50.0		105	31-139		
Benzyl Alcohol	32.7		10.0	ug/L	50.0		65	37-102		
Butyl Benzyl Phthalate	41.5		10.0	ug/L	50.0		83	44-133		
bis(2-chloroethoxy) methane	39.5		10.0	ug/L	50.0		79	36-113		
bis(2-chloroethyl) ether	41.0		10.0	ug/L	50.0		82	38-111		
bis(2-chloroisopropyl) ether	54.5		10.0	ug/L	50.0		109	32-110		
bis(2-ethylhexyl) phthalate	42.4		10.0	ug/L	50.0		85	44-136		
Chrysene	44.1		10.0	ug/L	50.0		88	41-124		
Dibenz(a,h)anthracene	56.0		10.0	ug/L	50.0		112	35-143		
Dibenzofuran	41.6		10.0	ug/L	50.0		83	41-119		
Diethyl Phthalate	41.0		10.0	ug/L	50.0		82	41-125		
Dimethyl Phthalate	40.4		10.0	ug/L	50.0		81	42-123		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0185 (Continued)										
LCS (B6F0185-BS1)					Prepared & Analyzed: 6/8/2016					
di-n-Butyl Phthalate	45.7		10.0	ug/L	50.0		91	41-133		
di-n-Octyl Phthalate	48.7		10.0	ug/L	50.0		97	34-145		
Fluoranthene	49.4		10.0	ug/L	50.0		99	38-132		
Fluorene	42.8		10.0	ug/L	50.0		86	41-121		
Hexachlorobenzene	41.4		10.0	ug/L	50.0		83	39-128		
Hexachlorobutadiene	35.1		10.0	ug/L	50.0		70	31-120		
Hexachlorocyclopentadiene	34.5		10.0	ug/L	50.0		69	15-117		
Hexachloroethane	36.2		10.0	ug/L	50.0		72	0-200		
Indeno(1,2,3-cd)pyrene	55.9		10.0	ug/L	50.0		112	27-160		
Isophorone	52.9		10.0	ug/L	50.0		106	40-115		
Naphthalene	37.7		10.0	ug/L	50.0		75	37-113		
Nitrobenzene	35.9		10.0	ug/L	50.0		72	37-114		
N-Nitrosodimethylamine	33.2		10.0	ug/L	50.0		66	28-76		
N-Nitrosodi-n-Propylamine	50.7		10.0	ug/L	50.0		101	38-117		
N-Nitrosodiphenylamine	57.8		10.0	ug/L	50.0		116	40-127		
Pentachlorophenol	27.2		10.0	ug/L	50.0		54	10-137		
Phenanthrene	44.3		10.0	ug/L	50.0		89	50-115		
Phenol	40.6		10.0	ug/L	50.0		81	24-85		
Pyrene	42.4	X	10.0	ug/L	50.0		85	21-78		
Surrogate: 2,4,6-Tribromophenol (A-SUR)			*81.1*	*ug/L*	*100*		*81*	*48-117*		
Surrogate: 2-Fluorobiphenyl (B-SUR)			*38.4*	*ug/L*	*50.0*		*77*	*44-117*		
Surrogate: 2-Fluorophenol (A-SUR)			*64.2*	*ug/L*	*100*		*64*	*30-100*		
Surrogate: Nitrobenzene-d5 (B-SUR)			*36.8*	*ug/L*	*50.0*		*74*	*46-111*		
Surrogate: Phenol-d5 (A-SURR)			*76.3*	*ug/L*	*100*		*76*	*35-100*		
Surrogate: Terphenyl-D14 (B-SUR)			*37.5*	*ug/L*	*50.0*		*75*	*46-126*		
LCS Dup (B6F0185-BSD1)					Prepared & Analyzed: 6/8/2016					
1,2,4-Trichlorobenzene	39.0		10.0	ug/L	50.0		78	34-117	3	30
1,2-Dichlorobenzene	39.8		10.0	ug/L	50.0		80	38-111	8	30
1,3-Dichlorobenzene	38.6		10.0	ug/L	50.0		77	37-111	6	30
1,4-Dichlorobenzene	37.5		10.0	ug/L	50.0		75	37-111	8	30
2,4,5-Trichlorophenol	37.1		10.0	ug/L	50.0		74	39-125	5	30
2,4,6-Trichlorophenol	39.4		10.0	ug/L	50.0		79	42-125	3	30
2,4-Dichlorophenol	39.6		10.0	ug/L	50.0		79	38-120	7	30
2,4-Dimethylphenol	40.7		10.0	ug/L	50.0		81	39-117	6	30
2,4-Dinitrophenol	23.8		10.0	ug/L	50.0		48	13-152	14	30
2,4-Dinitrotoluene	47.2		10.0	ug/L	50.0		94	41-128	7	30
2,6-Dinitrotoluene	44.3		10.0	ug/L	50.0		89	42-127	4	30
2-Chloronaphthalene	41.3		10.0	ug/L	50.0		83	40-118	2	30
2-Chlorophenol	39.1		10.0	ug/L	50.0		78	41-108	4	30

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0185 (Continued)										
LCS Dup (B6F0185-BSD1)					Prepared & Analyzed: 6/8/2016					
2-Methylnaphthalene	41.8		10.0	ug/L	50.0		84	37-112	6	30
2-Methylphenol	41.4		10.0	ug/L	50.0		83	36-105	6	30
2-Nitroaniline	43.8		10.0	ug/L	50.0		88	34-121	0.6	30
2-Nitrophenol	37.7		10.0	ug/L	50.0		75	38-125	4	30
3&4-Methylphenol	44.2		10.0	ug/L	50.0		88	35-96	5	30
4-Bromophenyl-phenylether	45.9		10.0	ug/L	50.0		92	40-126	13	30
4-chloro-3-methylphenol	42.8		10.0	ug/L	50.0		86	40-119	10	30
4-Nitrophenol	30.8		10.0	ug/L	50.0		62	14-82	12	30
Acenaphthene	41.5		10.0	ug/L	50.0		83	41-116	3	30
Acenaphthylene	43.7		10.0	ug/L	50.0		87	42-126	0.8	30
Aniline (Phenylamine, Aminobenzene)	54.7	X	10.0	ug/L	50.0		109	31-100	9	30
Anthracene	51.3		10.0	ug/L	50.0		103	39-127	8	30
Benzo(a)anthracene	48.6		10.0	ug/L	50.0		97	40-129	6	30
Benzo(a)pyrene	61.0		10.0	ug/L	50.0		122	36-141	7	30
Benzo(b)fluoranthene	53.7		10.0	ug/L	50.0		107	34-139	4	30
Benzo(g,h,i)perylene	55.9		10.0	ug/L	50.0		112	32-141	7	30
Benzo(k)fluoranthene	57.0		10.0	ug/L	50.0		114	31-139	8	30
Benzyl Alcohol	37.8		10.0	ug/L	50.0		76	37-102	14	30
Butyl Benzyl Phthalate	43.0		10.0	ug/L	50.0		86	44-133	4	30
bis(2-chloroethoxy) methane	41.2		10.0	ug/L	50.0		82	36-113	4	30
bis(2-chloroethyl) ether	42.1		10.0	ug/L	50.0		84	38-111	3	30
bis(2-chloroisopropyl) ether	54.5		10.0	ug/L	50.0		109	32-110	0.06	30
bis(2-ethylhexyl) phthalate	42.8		10.0	ug/L	50.0		86	44-136	1	30
Chrysene	46.1		10.0	ug/L	50.0		92	41-124	4	30
Dibenz(a,h)anthracene	60.1		10.0	ug/L	50.0		120	35-143	7	30
Dibenzofuran	43.5		10.0	ug/L	50.0		87	41-119	5	30
Diethyl Phthalate	44.2		10.0	ug/L	50.0		88	41-125	8	30
Dimethyl Phthalate	42.9		10.0	ug/L	50.0		86	42-123	6	30
di-n-Butyl Phthalate	50.3		10.0	ug/L	50.0		101	41-133	10	30
di-n-Octyl Phthalate	51.0		10.0	ug/L	50.0		102	34-145	5	30
Fluoranthene	56.2		10.0	ug/L	50.0		112	38-132	13	30
Fluorene	45.0		10.0	ug/L	50.0		90	41-121	5	30
Hexachlorobenzene	44.6		10.0	ug/L	50.0		89	39-128	7	30
Hexachlorobutadiene	35.8		10.0	ug/L	50.0		72	31-120	2	30
Hexachlorocyclopentadiene	35.7		10.0	ug/L	50.0		71	15-117	4	30
Hexachloroethane	38.5		10.0	ug/L	50.0		77	0-200	6	30
Indeno(1,2,3-cd)pyrene	58.8		10.0	ug/L	50.0		118	27-160	5	30
Isophorone	56.2		10.0	ug/L	50.0		112	40-115	6	30
Naphthalene	40.1		10.0	ug/L	50.0		80	37-113	6	30
Nitrobenzene	37.5		10.0	ug/L	50.0		75	37-114	4	30
N-Nitrosodimethylamine	38.0		10.0	ug/L	50.0		76	28-76	13	30

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Quality Control
(Continued)

SVOCs by Method 8270D (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0185 (Continued)										
LCS Dup (B6F0185-BSD1)					Prepared & Analyzed: 6/8/2016					
N-Nitrosodi-n-Propylamine	54.9		10.0	ug/L	50.0		110	38-117	8	30
N-Nitrosodiphenylamine	62.5		10.0	ug/L	50.0		125	40-127	8	30
Pentachlorophenol	31.8		10.0	ug/L	50.0		64	10-137	16	30
Phenanthrene	47.8		10.0	ug/L	50.0		96	50-115	8	30
Phenol	42.0		10.0	ug/L	50.0		84	24-85	3	30
Pyrene	42.9	X	10.0	ug/L	50.0		86	21-78	1	30
Surrogate: 2,4,6-Tribromophenol (A-SUR)			*88.4*	*ug/L*	*100*		*88*	*48-117*		
Surrogate: 2-Fluorobiphenyl (B-SUR)			*37.5*	*ug/L*	*50.0*		*75*	*44-117*		
Surrogate: 2-Fluorophenol (A-SUR)			*66.8*	*ug/L*	*100*		*67*	*30-100*		
Surrogate: Nitrobenzene-d5 (B-SUR)			*38.8*	*ug/L*	*50.0*		*78*	*46-111*		
Surrogate: Phenol-d5 (A-SURR)			*78.4*	*ug/L*	*100*		*78*	*35-100*		
Surrogate: Terphenyl-D14 (B-SUR)			*38.0*	*ug/L*	*50.0*		*76*	*46-126*		

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Quality Control
(Continued)

Dissolved Metal Analysis by Method 6010C

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0137										
Blank (B6F0137-BLK1)					Prepared & Analyzed: 6/7/2016					
Arsenic	ND	U	0.0100	mg/L						
Barium	ND	U	0.0500	mg/L						
Cadmium	ND	U	0.00500	mg/L						
Chromium	ND	U	0.0100	mg/L						
Lead	ND	U	0.0100	mg/L						
Selenium	ND	U	0.0500	mg/L						
Silver	ND	U	0.0500	mg/L						
LCS (B6F0137-BS1)					Prepared & Analyzed: 6/7/2016					
Arsenic	0.937		0.0100	mg/L	1.00		94	80-120		
Barium	0.978		0.0500	mg/L	1.00		98	80-120		
Cadmium	0.947		0.00500	mg/L	1.00		95	80-120		
Chromium	0.968		0.0100	mg/L	1.00		97	80-120		
Lead	0.936		0.0100	mg/L	1.00		94	80-120		
Selenium	0.956		0.0500	mg/L	1.00		96	80-120		
Silver	0.977		0.0500	mg/L	1.00		98	80-120		
LCS Dup (B6F0137-BSD1)					Prepared & Analyzed: 6/7/2016					
Arsenic	0.943		0.0100	mg/L	1.00		94	80-120	0.6	20
Barium	0.977		0.0500	mg/L	1.00		98	80-120	0.05	20
Cadmium	0.948		0.00500	mg/L	1.00		95	80-120	0.06	20
Chromium	0.967		0.0100	mg/L	1.00		97	80-120	0.1	20
Lead	0.941		0.0100	mg/L	1.00		94	80-120	0.4	20
Selenium	0.973		0.0500	mg/L	1.00		97	80-120	2	20
Silver	0.976		0.0500	mg/L	1.00		98	80-120	0.1	20
Duplicate (B6F0137-DUP1)		**Source: A6F0009-01**			Prepared & Analyzed: 6/7/2016					
Arsenic	ND	U	0.0100	mg/L		ND				20
Barium	0.0520		0.0500	mg/L		0.0541			4	20
Cadmium	ND	U	0.00500	mg/L		ND				20
Chromium	ND	U	0.0100	mg/L		ND				20
Lead	ND	U	0.0100	mg/L		ND				20
Selenium	ND	U	0.0500	mg/L		ND				20
Silver	ND	U	0.0500	mg/L		ND				20

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2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Quality Control
(Continued)

Dissolved Metal Analysis by Method 6010C (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0137 (Continued)										
Matrix Spike (B6F0137-MS1)		**Source: A6F0009-01**			Prepared & Analyzed: 6/7/2016					
Arsenic	0.961		0.0100	mg/L	1.00	ND	96	80-120		
Barium	1.04		0.0500	mg/L	1.00	0.0541	99	80-120		
Cadmium	0.957		0.00500	mg/L	1.00	ND	96	80-120		
Chromium	0.982		0.0100	mg/L	1.00	ND	98	80-120		
Lead	0.948		0.0100	mg/L	1.00	ND	95	80-120		
Selenium	0.976		0.0500	mg/L	1.00	ND	98	80-120		
Silver	0.988		0.0500	mg/L	1.00	ND	99	80-120		
Matrix Spike Dup (B6F0137-MSD1)		**Source: A6F0009-01**			Prepared & Analyzed: 6/7/2016					
Arsenic	0.953		0.0100	mg/L	1.00	ND	95	80-120	0.8	20
Barium	1.04		0.0500	mg/L	1.00	0.0541	99	80-120	0.07	20
Cadmium	0.955		0.00500	mg/L	1.00	ND	95	80-120	0.2	20
Chromium	0.980		0.0100	mg/L	1.00	ND	98	80-120	0.2	20
Lead	0.949		0.0100	mg/L	1.00	ND	95	80-120	0.2	20
Selenium	0.977		0.0500	mg/L	1.00	ND	98	80-120	0.09	20
Silver	0.987		0.0500	mg/L	1.00	ND	99	80-120	0.1	20

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

Quality Control
(Continued)

Dissolved Mercury Analysis by Method 7470A

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B6F0139										
Blank (B6F0139-BLK1)					Prepared: 6/7/2016 Analyzed: 6/8/2016					
Mercury	ND	U	0.200	ug/L						
LCS (B6F0139-BS1)					Prepared: 6/7/2016 Analyzed: 6/8/2016					
Mercury	3.27		0.200	ug/L	3.00		109	85-115		
LCS Dup (B6F0139-BSD1)					Prepared: 6/7/2016 Analyzed: 6/8/2016					
Mercury	3.39		0.200	ug/L	3.00		113	85-115	4	20
Duplicate (B6F0139-DUP1)		**Source: A6F0015-01**			Prepared: 6/7/2016 Analyzed: 6/8/2016					
Mercury	ND	U	0.200	ug/L		0.0198				20
Matrix Spike (B6F0139-MS1)		**Source: A6F0015-01**			Prepared: 6/7/2016 Analyzed: 6/8/2016					
Mercury	2.91		0.200	ug/L	3.00	0.0198	96	85-115		
Matrix Spike Dup (B6F0139-MSD1)		**Source: A6F0015-01**			Prepared: 6/7/2016 Analyzed: 6/8/2016					
Mercury	2.91		0.200	ug/L	3.00	0.0198	96	85-115	0.03	20

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Cardno -Marietta	Project: 1055 Arden Avenue	
2000 1st Drive, Suite 220	Project Number: BrownField/HSRA	**Reported:**
Marietta, GA 30062	Project Manager: Gregg Stephens	06/14/2016 17:20

List of Certifications

Number	Description	Code	Facility	Expires
04176	LA CERTIFICATE	LANELAC	FTSA	06/30/2016
483	NC CERTIFICATE	ANC	FTSA	12/31/2016
85	KENTUKY CERTIFICATE	KENTUKY	FTSA	
98015	SC CERTIFICATE	ASC	FTSA	06/30/2016
E84098	FL NELAC CERTIFICATE	LFLNELAC	FTSL	06/30/2016
E87429	FL NELAC CERTIFICATE	AFLNELAC	FTSA	06/30/2016
LI0-135	DoD CERTIFICATE	DOD	FTSA	06/30/2016
P330-07-00105	USDA CERTIFICATE	USDA	FTSA	

Notes and Definitions

Item	Definition
F	RPD Failure in the BKS/BSD.
Dry	Sample results reported on a dry weight basis.
U or ND	Analyte NOT DETECTED at or above the reporting limit.
A	Suspected adol-condensation product
B	Analyte detected in the method blank
C	Confirmed by GC/MS analysis
E	Concentration exceeds calibration range
K	Hold Time exceeded
J	Estimated Value
N	Tentatively Identified Compound
P	>25% difference between primary and secondary columns
S	Quantitation based on single-point calibration
X	QC Failure see Case Narrative

RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety.

Limited Phase II Assessment, Warehouse Property-1055 Arden Ave., SW, Atlanta, Georgia

APPENDIX D

SOIL BORING LOGS

2000 1st Drive, Suite 220
Marietta, Georgia 30062
www.cardno.com
678.433.7447

SOIL BORING LOG

Log of Soil Boring: SB-01/MW-01

Project No: Z070000118
Project: Vacant Warehouse
Location: 1055 Arden Ave, SW.
Atlanta, Fulton County, Georgia

Drilling Company: GeoLab, Inc.

Drilling Method: GeoProbe
Sampling Method: Direct-Push
Logged By: GS **Reviewed By:** RR

Surface Conditions: **Asphalt**
OVA Type: MiniRae 3000

Drilling	Time	Date	Depth
Start:	0930	6/1/16	
Finish:	1015	6/1/16	20
Groundwater			
ATOB	1000	6/1/16	10
24 hours	-	-	-

NE = not encountered

DEPTH (ft)	DESCRIPTION	USCS CLASS	Recovery	TIME	PID OVA (ppm)	COMMENTS
	Asphalt (approx. 0.25')					
2	Medium red, hard, micaceous clayey Silt w/ large, angular quartz	SM	NA	940	ND	Hand Auger
4	SAA, Slightly sandy	SM	NA	945	ND	Soil sample submitted for laboratory analysis (1-3')
6	SAA	SM	2.0'	955	1.0	Soil sample submitted for laboratory analysis (6')
8	SAA	SM	2.0'	1000	ND	
10	SAA	SM	2.0'	1005	ND	DTW = Approx. 10' BGS
12-15	Same as above, grading to moist and soft	SM	2.0'	1010	2.7	
18-20	Same as above, grading to moist and soft	SM	2.0'	1015	ND	Well screen: 5-20', 0.010" slot
	Boring Terminated at 20' BGS					

NE = Not Encountered
NA = Not Applicable
ATOB = At Time of Boring

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SOIL BORING LOG

Log of Soil Boring: SB-02/MW-02

Project No: Z070000118
Project: Vacant Warehouse
Location: 1055 Arden Ave, SW.
Atlanta, Fulton County, Georgia

Drilling Company: GeoLab, Inc.

Drilling Method: GeoProbe
Sampling Method: Direct-Push
Logged By: GS **Reviewed By:** RR

Surface Conditions: **Asphalt**
OVA Type: MiniRae 3000

Drilling	Time	Date	Depth
Start:	1030	6/1/16	
Finish:	1115	6/1/16	23
Groundwater			
ATOB	1110	6/1/16	12
24 hours	-	-	-

NE = not encountered

DEPTH (ft)	DESCRIPTION	USCS CLASS	Recovery	TIME	PID OVA (ppm)	COMMENTS
	Asphalt (approx. 0.25')					
2	Medium red, hard, micaceous clayey Silt w/ large, angular quartz	SM	NA	1030	ND	Hand Auger
4	SAA, Slightly sandy	SM	NA	1035	1.5	Soil sample submitted for laboratory analysis (1-3')
6	SAA	SM	2.0'	1045	ND	
8	SAA	SM	2.0'	1100	ND	Soil sample submitted for laboratory analysis (8') Collect Duplicate SB-15 (8')
10	SAA	SM	2.0'	1105	ND	DTW = Approx. 12' BGS
12-15	Same as above, grading to moist and soft	SM	2.0'	1110	ND	
18-20	Same as above, grading to moist and soft	SM	2.0'	1115	ND	Well screen: 8-23' , 0.010" slot
	Boring Terminated at 23' BGS					

NE = Not Encountered
NA = Not Applicable
ATOB = At Time of Boring

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SOIL BORING LOG

Log of Soil Boring: SB-03/MW-03

Project No: Z070000118
Project: Vacant Warehouse
Location: 1055 Arden Ave, SW.
Atlanta, Fulton County, Georgia

Drilling Company: GeoLab, Inc.

Drilling Method: GeoProbe
Sampling Method: Direct-Push
Logged By: GS **Reviewed By:** RR

Surface Conditions: **Asphalt**
OVA Type: MiniRae 3000

Drilling	Time	Date	Depth
Start:	1112	6/1/16	
Finish:	1140	6/1/16	25
Groundwater			
ATOB	1140	6/1/16	16
24 hours	-	-	-

NE = not encountered

DEPTH (ft)	DESCRIPTION	USCS CLASS	Recovery	TIME	PID OVA (ppm)	COMMENTS
	Asphalt (approx. 0.25')					
2	Medium red, hard, micaceous Silty Clay	CL	NA	1112	ND	Hand Auger
4	SAA, Slightly sandy	CL	NA	1115	ND	Soil sample submitted for laboratory analysis (1-3')
6	SAA	CL	2.0'	1120	ND	
8	Light brown clayey Silt	SM	2.0'	1125	ND	
10	SAA	SM	2.0'	1130	ND	Soil sample submitted for laboratory analysis (10')
12-15	Same as above, grading to moist and soft	SM	2.0'	1135	ND	DTW = Approx. 16' BGS
18-25	Same as above, grading to moist and soft	SM	2.0'	1140	ND	Well screen: 10-25', 0.010" slot
	Boring Terminated at 25' BGS					

NE = Not Encountered
NA = Not Applicable
ATOB = At Time of Boring

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SOIL BORING LOG

Log of Soil Boring: SB-04/MW-04

Project No: Z070000118
Project: Vacant Warehouse
Location: 1055 Arden Ave, SW.
Atlanta, Fulton County, Georgia

Drilling Company: GeoLab, Inc.

Drilling Method: GeoProbe
Sampling Method: Direct-Push
Logged By: GS **Reviewed By:** RR

Surface Conditions: **Asphalt**
OVA Type: MiniRae 3000

Drilling	Time	Date	Depth
Start:	1140	6/1/16	
Finish:	1205	6/1/16	25
Groundwater			
ATOB	1200	6/1/16	19
24 hours	-	-	-

NE = not encountered

DEPTH (ft)	DESCRIPTION	USCS CLASS	Recovery	TIME	PID OVA (ppm)	COMMENTS
	Asphalt (approx. 0.25')					
2	Medium red, hard, micaceous Silty Clay	CL	NA	1140	ND	Hand Auger
4	SAA, Slightly sandy	CL	NA	1145	ND	Soil sample submitted for laboratory analysis (1-3')
6	SAA	CL	2.0'	1150	ND	
8	Light brown clayey Silt	SM	2.0'	1155	ND	
10	SAA	SM	2.0'	1158	ND	
12-15	SAA	SM	2.0'	1200	ND	Soil sample submitted for laboratory analysis (12')
						DTW = Approx. 19' BGS
18-25	Same as above, grading to moist and soft	SM	2.0'	1205	ND	Well screen: 10-25' , 0.010" slot
	Boring Terminated at 25' BGS					

NE = Not Encountered
NA = Not Applicable
ATOB = At Time of Boring

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SOIL BORING LOG

Log of Soil Boring: SB-05/MW-05

Project No: Z070000118
Project: Vacant Warehouse
Location: 1055 Arden Ave, SW.
Atlanta, Fulton County, Georgia

Drilling Company: GeoLab, Inc.

Drilling Method: GeoProbe
Sampling Method: Direct-Push
Logged By: GS **Reviewed By:** RR

Surface Conditions: **Asphalt**
OVA Type: MiniRae 3000

Drilling	Time	Date	Depth
Start:	0125	6/1/16	
Finish:	0150	6/1/16	25
Groundwater			
ATOB	0145	6/1/16	19
24 hours	-	-	-

NE = not encountered

DEPTH (ft)	DESCRIPTION	USCS CLASS	Recovery	TIME	PID OVA (ppm)	COMMENTS
	Asphalt (approx. 0.25')					
2	Medium red, hard, micaceous Silty Clay	CL	NA	0125	ND	Hand Auger
4	SAA, Slightly sandy	CL	NA	0130	ND	Soil sample submitted for laboratory analysis (1-3')
6	SAA	CL	2.0'	0135	ND	
8	Light brown clayey Silt	SM	2.0'	0138	ND	
10	SAA	SM	2.0'	0140	ND	
12-15	SAA	SM	2.0'	0145	ND	Soil sample submitted for laboratory analysis (12')
						DTW = Approx. 19' BGS
18-25	Same as above, grading to moist and soft	SM	2.0'	0150	ND	Well screen: 10-25', 0.010" slot
	Boring Terminated at 25' BGS					

NE = Not Encountered
NA = Not Applicable
ATOB = At Time of Boring

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SOIL BORING LOG

Log of Soil Boring: SB-06/MW-06

Project No: Z070000118
Project: Vacant Warehouse
Location: 1055 Arden Ave, SW.
Atlanta, Fulton County, Georgia

Drilling Company: GeoLab, Inc.

Drilling Method: GeoProbe
Sampling Method: Direct-Push
Logged By: GS **Reviewed By:** RR

Surface Conditions: **Asphalt**
OVA Type: MiniRae 3000

Drilling	Time	Date	Depth
Start:	0155	6/1/16	
Finish:	0220	6/1/16	25
Groundwater			
ATOB	0215	6/1/16	19
24 hours	-	-	-

NE = not encountered

DEPTH (ft)	DESCRIPTION	USCS CLASS	Recovery	TIME	PID OVA (ppm)	COMMENTS
	Asphalt (approx. 0.25')					
2	Medium red, hard, micaceous Silty Clay	CL	NA	0155	ND	Hand Auger
4	SAA, Slightly sandy	CL	NA	0200	ND	Soil sample submitted for laboratory analysis (1-3')
6	SAA	CL	2.0'	0205	ND	
8	Light brown clayey Silt	SM	2.0'	0208	ND	
10	SAA	SM	2.0'	0210	ND	
12-15	Orange Mottled Clay	CL	2.0'	0215	ND	Soil sample submitted for laboratory analysis (12')
						DTW = Approx. 19' BGS
18-25	Same as above, grading to clayey Silt moist and soft	SM	2.0'	0220	ND	Well screen: 10-25' , 0.010" slot
	Boring Terminated at 25' BGS					

NE = Not Encountered
NA = Not Applicable
ATOB = At Time of Boring

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SOIL BORING LOG

Log of Soil Boring: SB-07/MW-07

Project No: Z070000118
Project: Vacant Warehouse
Location: 1055 Arden Ave, SW.
Atlanta, Fulton County, Georgia

Drilling Company: GeoLab, Inc.

Drilling Method: GeoProbe
Sampling Method: Direct-Push
Logged By: GS **Reviewed By:** RR

Surface Conditions: **Asphalt**
OVA Type: MiniRae 3000

Drilling	Time	Date	Depth
Start:	0225	6/1/16	
Finish:	0250	6/1/16	30
Groundwater			
ATOB	0240	6/1/16	19
24 hours	-	-	-

NE = not encountered

DEPTH (ft)	DESCRIPTION	USCS CLASS	Recovery	TIME	PID OVA (ppm)	COMMENTS
	Asphalt (approx. 0.25')					
2	Medium red, hard, micaceous Silty Clay	CL	NA	0225	ND	Hand Auger
4	SAA, Slightly sandy	CL	NA	0230	ND	Soil sample submitted for laboratory analysis (1-3')
6	SAA	CL	2.0'	0205	ND	
8	Red clayey Silt	SM	2.0'	0208	ND	
10	SAA	SM	2.0'	0210	ND	
12-15	SAA	SM	2.0'	0215	ND	
15-18	SAA	SM	2.0'	0245	ND	Soil sample submitted for laboratory analysis (15')
18-25	Same as above, grading to clayey Silt moist and soft	SM	2.0'	0248	ND	
28-30	SAA	SM	2.0'	0250	ND	
	Boring Terminated at 30' BGS					
						DTW = Approx. 19' BGS Well screen: 15-30' , 0.010" slot

NE = Not Encountered
NA = Not Applicable
ATOB = At Time of Boring

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SOIL BORING LOG

Log of Soil Boring: SB-08/MW-08

Project No: Z070000118
Project: Vacant Warehouse
Location: 1055 Arden Ave, SW.
Atlanta, Fulton County, Georgia

Drilling Company: GeoLab, Inc.

Drilling Method: GeoProbe
Sampling Method: Direct-Push
Logged By: GS **Reviewed By:** RR

Surface Conditions: **Asphalt**
OVA Type: MiniRae 3000

Drilling	Time	Date	Depth
Start:	0300	6/1/16	
Finish:	0355	6/1/16	20
Groundwater			
ATOB	0350	6/1/16	10
24 hours	-	-	-

NE = not encountered

DEPTH (ft)	DESCRIPTION	USCS CLASS	Recovery	TIME	PID OVA (ppm)	COMMENTS
	Asphalt (approx. 0.25')					
2	Medium red, hard, micaceous sandy Silty	SM	NA	0300	ND	Hand Auger
4	SAA, Slightly sandy	SM	NA	0315	ND	Soil sample submitted for laboratory analysis (1-3')
6	SAA	SM	2.0'	0330	ND	Soil sample submitted for laboratory analysis (6')
8	Red clayey Silt	SM	2.0'	0340	ND	
10	Same as above, grading to clayey Silt moist and soft	SM	2.0'	0345	ND	
12-15	SAA	SM	2.0'	0350	ND	DTW = Approx. 10' BGS Well screen: 5-20' , 0.010" slot
15-18	Boring Terminated at 20' BGS	SM	2.0'	0355	ND	

NE = Not Encountered
NA = Not Applicable
ATOB = At Time of Boring

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SOIL BORING LOG

Log of Soil Boring: SB-09/MW-09

Project No: Z070000118
Project: Vacant Warehouse
Location: 1055 Arden Ave, SW.
Atlanta, Fulton County, Georgia

Drilling Company: GeoLab, Inc.

Drilling Method: GeoProbe
Sampling Method: Direct-Push
Logged By: GS **Reviewed By:** RR

Surface Conditions: **Asphalt**
OVA Type: MiniRae 3000

Drilling	Time	Date	Depth
Start:	0915	6/2/16	
Finish:	1000	6/2/16	30
Groundwater			
ATOB	0945	6/2/16	24
24 hours	-	-	-

NE = not encountered

DEPTH (ft)	DESCRIPTION	USCS CLASS	Recovery	TIME	PID OVA (ppm)	COMMENTS
	Asphalt (approx. 0.25')					
2	Medium red, hard, micaceous Silty Clay	CL	NA	0915	ND	Hand Auger
4	SAA, Slightly sandy	CL	NA	0930	ND	Soil sample submitted for laboratory analysis (1-3')
6	SAA	CL	2.0'	0935	ND	
8	Light brown clayey Silt	SM	2.0'	0938	ND	
10	SAA	SM	2.0'	0940	ND	
12-15	Orange Mottled Clay	CL	2.0'	0945	ND	Soil sample submitted for laboratory analysis (12')
						DTW = Approx. 24' BGS
18-25	Same as above, grading to clayey Silt moist and soft	SM	2.0'	0950	ND	Well screen: 10-30' , 0.010" slot
28-30	SAA	SM	2.0'	1000	ND	
	Boring Terminated at 30' BGS					

NE = Not Encountered
NA = Not Applicable
ATOB = At Time of Boring

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SOIL BORING LOG

Log of Soil Boring: SB-010/MW-10

Project No: Z070000118
Project: Vacant Warehouse
Location: 1055 Arden Ave, SW.
Atlanta, Fulton County, Georgia

Drilling Company: GeoLab, Inc.

Drilling Method: GeoProbe
Sampling Method: Direct-Push
Logged By: GS **Reviewed By:** RR

Surface Conditions: **Asphalt**
OVA Type: MiniRae 3000

Drilling	Time	Date	Depth
Start:	1025	6/2/16	
Finish:	1100	6/2/16	30
Groundwater			
ATOB	1045	6/2/16	22
24 hours	-	-	-

NE = not encountered

DEPTH (ft)	DESCRIPTION	USCS CLASS	Recovery	TIME	PID OVA (ppm)	COMMENTS
	Asphalt (approx. 0.25')					
2	Medium red, hard, micaceous Silty Clay	CL	NA	1025	ND	Hand Auger
4	SAA, Slightly sandy	CL	NA	1030	ND	Soil sample submitted for laboratory analysis (1-3')
6	SAA	CL	2.0'	1033	ND	
8	Light brown clayey Silt	SM	2.0'	1035	ND	
10	SAA	SM	2.0'	1040	ND	
12-15	SAA	SM	2.0'	1045	ND	Soil sample submitted for laboratory analysis (12')
						DTW = Approx. 22' BGS
18-25	Same as above, grading to clayey Silt moist and soft	SM	2.0'	1050	ND	Well screen: 10-30' , 0.010" slot
28-30	SAA	SM	2.0'	1100	ND	
	Boring Terminated at 30' BGS					

NE = Not Encountered
NA = Not Applicable
ATOB = At Time of Boring

Limited Phase II Assessment, Warehouse Property-1055 Arden Ave., SW, Atlanta, Georgia

APPENDIX E

ASBESTOS INSPECTION REPORT

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

1841 West Oak Parkway, Suite F
Marietta, GA 30062
Telephone 770-427-9456
Fax 770-427-1907

June 8, 2016

Gregg Stephens, P.G.
Senior Geologist/Senior Project Manager
Cardno
2000 1st Drive, Suite 220
Marietta, GA 30062

RE: **Asbestos Inspection Report**
1055 Arden Avenue (Three Vacant Buildings)
Atlanta, Georgia
Cardno Project ID Z0700000118
ATC Project No. Z070000088

Dear Mr. Stephens:

At the request of the Cardno, ATC Group Services, LLC, (ATC) conducted an asbestos inspection of the three vacant buildings located at 1055 Arden Avenue SW, in Atlanta, Georgia. ATC's Industrial Hygienist Mr. Greg Czachor conducted the site inspection and sample collection on June 1, 2016. The inspection involved the collection of samples of accessible suspect asbestos-containing building materials (ACBM). Copies of Mr. Czachor's certifications are located in Appendix A.

1.0 PROPERTY DESCRIPTION

The facility is constructed as three separate buildings;

Bldg. 1: pre-fabricated metal siding, steel beam and bar-joists, constructed 1966, with 16,860 SF. The exterior of Bldg. 1 was observed to be painted metal wall systems. The roofing system of Bldg. 1 was observed to be metal panel roofing systems. Interior finishes include spray-applied insulation, lay-in ceiling tiles, bare concrete, carpet, vinyl cove base, floor tile, and gypsum wallboard. The mechanical systems observed include non-insulated piping, and fiberglass insulated piping systems.

Bldg. 2: Warehouse two-story building, constructed of poured concrete floors, bar joist and concrete masonry unit (CMU) block systems constructed 1958, 5,760 SF. The roofing systems of Building 2 was not accessed due to potential structural degradation from long term water intrusion and was observed to be commercial style flat built-up roofing systems. Interior finishes include lay-in ceiling tiles, bare concrete floors, and painted CMU walls. The mechanical systems observed include non-insulated piping, and fiberglass insulated piping systems.

Bldg. 3: Warehouse/Shop one-story constructed of poured concrete floors, bar joist and concrete masonry unit (CMU) block systems, constructed 1930 5,576 SF. The roofing systems of Building 3 was not accessed due to potential structural degradation from long term water intrusion and was observed to be commercial style flat built-up roofing systems. Interior finishes include drywall and joint compound walls and ceilings, bare concrete, floor tile and mastics, and gypsum wallboard. The mechanical systems observed include non-insulated piping, and fiberglass insulated piping systems.

2.0 ASBESTOS METHODOLOGY

Asbestos is a collective term given to a group of six commercial fibrous silicate minerals: Chrysotile (a serpentine mineral), crocidolite, amosite, anthophyllite, tremolite, and actinolite (amphiboles). In addition to their inherent noncombustible property, asbestos products make excellent thermal insulators, are effective at condensate control, and are resistant to corrosive chemicals. To date, over 3,600 asbestos-containing commercial and consumer products have been identified. Some of the high-tonnage asbestos production is in flooring products, asbestos cement pipes, roofing products, friction products, asbestos cement sheets, packing and gaskets, insulation, paper products, textiles, etc.

The building was visually inspected for the presence of building materials that are suspected to contain asbestos. Bulk samples of identified suspect ACM were collected and placed into individual containers for transport to EMSL Analytical, Inc. (EMSL) in Atlanta, Georgia for analysis. EMSL is accredited by the National Institute of Standards and Technology (NIST) National Voluntary Accreditation Program (NVLAP) for laboratories analyzing bulk materials by polarized light microscopy (accreditation #101048-1). Materials visibly identified as non-asbestos (fibrous glass, foam rubber, wood, etc.) were not sampled. The asbestos survey consisted of three procedures: **1)** conducting a visual inspection of the structures; **2)** identifying homogeneous areas of suspect surfacing, thermal system insulation, and miscellaneous materials; and **3)** sampling accessible, friable and non-friable suspect materials.

Homogenous Areas

Prior to collecting any samples, homogeneous areas (HAs) were identified to develop a sampling strategy. A homogeneous sampling area can be described as one or more areas of material that are similar in appearance and texture and that have the same installation date and function. Homogenous areas were established for each building during the course of this survey. The actual number of samples collected from each homogeneous sampling area varied, based on the type of material and the professional judgment of the inspector.

Each material on the list was further classified into one of three categories, which have specific sampling requirements for each category.

Surfacing Materials:	Refers to spray-applied or toweled surfaces such as plaster ceilings and walls, fireproofing, textured paints, textured plasters and spray-applied acoustical surfaces.
Thermal System Insulation:	Refers to insulation used to inhibit heat gain or loss on pipes, boilers, tanks, ducts, and various other building components.
Miscellaneous Materials:	Refers to friable and non-friable products and materials that do not fit in any of the above two categories such as resilient floor covering, baseboards, mastics, adhesives, roofing material, caulking, glazing and siding. This category also contains wallboard and ceiling tile.

All confirmed ACMs were then assessed by their condition as good, damaged, or significantly damaged per Title 40 Code of Federal Regulations Part 763. Material with localized significant damage was also assessed when observed. A physical assessment includes evaluating the condition, assessing the potential for disturbance, and determining the friability of each material.

Sampling Strategy

The asbestos inspection was conducted according to modified Asbestos Hazard Emergency Response Act (AHERA) guidelines using a minimum number of samples collected from each HA, which also meets the sampling requirement found in 29 CFR 1926.1101.

Sample collection depends on the category that the HA falls into and the amount of material present, as follows:

GUIDELINES FOR DETERMINING THE NUMBER OF SAMPLES TO TAKE		
HA CATEGORY	**HA SIZE**	**SAMPLES REQUIRED**
Surfacing Materials	<1,000 SF	3
	1,000-5,000 SF	5
	>5,000 SF	7 or more
Thermal System Insulation	No Stipulation	3+ (Must also sample all repair patches)
Miscellaneous Materials	No Stipulation	Per AHERA, these materials must be sampled "in a manner sufficient to determine whether or not they contain asbestos" typically 2-7 samples based upon inspector judgment.

If the analytical results indicated that none of the samples collected per homogeneous area contain asbestos, then the homogeneous area (material) would be considered non-ACM. However, if the analytical results of one or more of the samples collected per homogeneous area indicate that asbestos is present in quantities of greater than one percent asbestos, all of the homogeneous area (material) would be treated as ACM regardless of any other analytical results. Materials that can visually be determined to be non-asbestos (i.e., fibrous glass, foam rubber, etc.) by the accredited inspector are not required to be sampled.

Miscellaneous materials require adequately representative sampling, which is typically done by collecting from one to three samples per material. Inspectors typically rely on other survey observations such as the condition, friability, and quantity of material to determine what would be a sufficient amount of samples to accurately evaluate the presence or absence of asbestos content.

Actual collection of a bulk asbestos sample involves physically removing a small piece of material and placing it in a marked, airtight container. Sample containers are marked with a unique identification number, which is also noted in the field notes.

3.0 ASBESTOS LABORATORY ANALYSIS

Analysis of bulk samples for asbestos content, was performed by Polarized Light Microscopy (PLM) according to the EPA Interim Method of Asbestos in Bulk Insulation Samples as defined in 40 CFR 763, Appendix B to Subpart F. PLM analysis requires the microscopist to take a portion of the bulk sample and treat it with light refractive oils. The prepared slide is then subjected to a variety of tests while being viewed under the microscope. This method of analysis requires the microscopist to make visual estimations and results are subject to errors inherent to visual estimations. In addition, false negative results may be caused by method limitations in separating closely bound fibers from matrix material and in detecting fibers of small length or diameter (i.e., floor tile/mastic). Such fibers may be detected using analysis if so desired. As necessary, samples yielding from trace (<1%) to ten percent (10%) asbestos as determined by PLM should be further analyzed using the PLM point counting methodology. This is a technique for confirming the presence, or absence, of asbestos, as outlined in the National Emission Standard for Hazardous Air Pollutants (NESHAPS) regulations.

4.0 ASBESTOS FINDINGS

Forty-one (41) bulk samples were collected from the buildings and sixty-two (62) samples were analyzed by Polarized Light Microscopy (PLM) based on seventeen (17) homogeneous areas and the distinct number of layers (materials) associated with each bulk sample. For example, floor tile and associated mastic are collected as one bulk sample but are analyzed as two distinct materials by the asbestos laboratory, as required by to the Occupational Safety and Health Administration (OSHA). The materials that were sampled included, spray-applied insulation, 2' x 4' lay-in ceiling tiles, 2' x 2' lay-in ceiling tiles, floor tile and mastics, vinyl covebase and mastic, stair tread and mastic, flash blocks, wire insulation, drywall and associated joint compound, and window glazing.

Table 1, 2, and 3 provides a listing of materials sampled, sample locations, analytical results, and approximate quantities of asbestos-containing materials visually observed within the building/areas that were sampled. Laboratory analytical data is located in Appendix B PLM Laboratory Report/Chain of Custody.

Table 1
Asbestos Bulk Sample Summary
1055 Arden Avenue SW
Atlanta, Georgia

Sample Number	Sample Description	Sample Location	Asbestos Content	Approximate Material Quantity*
Building 1				
AA1-01A	Spray-applied Insulation	2nd Floor SE	NAD	NA
AA1-01B	Spray-applied Insulation	1st Floor South	NAD	NA
AA1-01C	Spray-applied Insulation	2nd Floor East	NAD	NA
AA1-01D	Spray-applied Insulation	1st Floor Northeast	NAD	NA
AA1-01E	Spray-applied Insulation	1st Floor West	NAD	NA
AA1-01F	Spray-applied Insulation	2nd Floor Northwest	NAD	NA
AA1-01G	Spray-applied Insulation	2nd Floor Southwest	NAD	NA
AA1-02A	**2' x 4' Lay-in Ceiling Tile**	**2nd Floor South**	**3% Amosite**	**5,900 SF**
AA1-02B	**2' x 4' Lay-in Ceiling Tile**	**1st Floor Central**	**3% Amosite**	**Included with AA1-02A**
AA1-02C	**2' x 4' Lay-in Ceiling Tile**	**1st Floor Receiving Office**	**3% Amosite**	**Included with AA1-02A**
AA1-03A	2' x 2' Lay-in Ceiling Tile	1st Floor Office Area	NAD	NA
AA1-03B	2' x 2' Lay-in Ceiling Tile	1st Floor Office Area	NAD	NA

Table 1 Asbestos Bulk Sample Summary 1055 Arden Avenue SW Atlanta, Georgia				
Sample Number	**Sample Description**	**Sample Location**	**Asbestos Content**	**Approximate Material Quantity***
Building 1				
AA1-04A	**9” x 9” Tan Floor Tile and Mastic**	**1st Floor Receiving**	**Tile 7% Chry Mastic 5% Chry**	**2,000 SF**
AA1-04B	**9” x 9” Tan Floor Tile and Mastic**	**1st Floor Offices**	**Tile 7% Chry Mastic 5% Chry**	**Included with AA1- 04A**
AA1-05A	**1’ x 1’ Grey Floor Tile and Mastic**	**2nd Floor Northwest**	**Tile 2% Chry Mastic 5% Chry**	**1,000 SF**
AA1-05B	**1’ x 1’ Grey Floor Tile and Mastic**	**2nd Floor Northwest**	**Tile 2% Chry Mastic 5% Chry**	**Included with 005A**
AA1-06A	**1’ x 1’ Tan Floor Tile and Mastic**	**2nd Floor Southeast**	**Tile 4% Chry Mastic NAD**	**1,000 SF**
AA1-06B	**1’ x 1’ Tan Floor Tile and Mastic**	**2nd Floor Southeast**	**Tile 4% Chry Mastic NAD y**	**Included with AA1-06A**
AA1-07A	**1’ x 1’ Grey Floor Tile and Mastic**	**1st Floor Southeast Offices**	**Tile 4% Chry Mastic NAD**	**1,000 SF**
AA1-07B	**1’ x 1’ Grey Floor Tile and Mastic**	**1st Floor Southeast Offices**	**Tile 4% Chry Mastic NAD y**	**Included with AA1-07A**
AA1-08A	Vinyl Covebase and Mastic	1st Floor Offices	CB NAD Mastic NAD	NA
AA1-08B	Vinyl Covebase and Mastic	1st Floor Receiving	CB NAD Mastic NAD	NA
AA1-09A	Vinyl Stair Tread and Mastic	1st Floor Landing	ST NAD Mastic	NA
AA1-09B	Vinyl Stair Tread and Mastic	2nd Floor Landing	ST NAD Mastic	NA
No Asbestos Detected = NAD, **Bold** = Positive ACM, NA = Not applicable, ; SF = Square Feet, LF = Linear Feet				

Table 2 Asbestos Bulk Sample Summary 1055 Arden Avenue SW Atlanta, Georgia				
Sample Number	**Sample Description**	**Sample Location**	**Asbestos Content**	**Approximate Material Quantity***
Building 2				
AA2-01A	2' x 4' Lay-in Ceiling Tile	Lower Level Restroom	NAD	NA
AA2-01B	2' x 4' Lay-in Ceiling Tile	Upper Level Restroom	NAD	NA
AA2-02	**Roofing System**	**Roof Field, Flashings and Mastic**	**Assumed ACM**	**5,760 SF**
AA2-03A	Electrical Panel Flash Blocks	West Area Electrical Panels	NAD	NA
AA2-03B	Electrical Panel Flash Blocks	West Area Electrical Panels	NAD	NA
AA2-04A	Fibrous Wire Insulation	West Area Electrical Panels	NAD	NA
No Asbestos Detected = NAD, **Bold** = Positive ACM, NA = Not applicable, ; SF = Square Feet, LF = Linear Feet				

Table 3 Asbestos Bulk Sample Summary 1055 Arden Avenue SW Atlanta, Georgia				
Sample Number	**Sample Description**	**Sample Location**	**Asbestos Content**	**Approximate Material Quantity***
Building 3				
AA3-01A	**Drywall Joint Compound Walls and Ceilings**	**Main Office**	**DW NAD JC <1% Chry**	**900 SF**
AA3-01B	**Drywall Joint Compound Walls and Ceilings**	**Restrooms**	**DW NAD JC <1% Chry**	**Included with AA3-01A**
AA3-01C	**Drywall Joint Compound Walls and Ceilings**	**Shop Office**	**DW NAD JC <1% Chry**	**Included with AA3-01A**
AA3-02A	**1' x 1' Tan Floor Tile and Mastic Over Green 9" x 9" Floor Tile and Mastic**	**Main Office**	**Tile 1 5% Chry Mastic 1 5% Chry Tile 2 5% Chry Mastic 2 5% Chry**	**150 SF**
AA3-02B	**1' x 1' Tan Floor Tile and Mastic Over Green 9" x 9" Floor Tile and Mastic**	**Main Office**	**Tile 1 5% Chry Mastic 1 7% Chry Tile 2 % Chry Mastic 2 NAD**	**Included with AA3-02A**
AA3-03A	**Green 9" x 9" Floor Tile and Mastic**	**Shop Office**	**Tile 6% Chry Mastic NAD**	**150 SF**
AA3-03B	**Green 9" x 9" Floor Tile and Mastic**	**Shop Office**	**Tile 5% Chry Mastic NAD**	**Included with AA3-03A**
AA3-04A	**Cement Flash Block**	**Electrical Panels**	**30% Chry**	**14 Panels**
AA3-04B	**Cement Flash Block**	**Electrical Panels**	**25% Chry**	**Included with AA3- 04A**
AA3-05A	Window Glazing	Receiving Area	NAD	NA
AA3-05B	Window Glazing	Shop Office	NAD	NA
AA3-06	**Roofing System**	**Roof Field, Flashings and Mastic**	**Assumed ACM**	**5,576 SF**
No Asbestos Detected = NAD, **Bold** = <1%, **Bold** = Positive ACM, NA = Not applicable, ; SF = Square Feet, LF = Linear Feet				

6.0 CONCLUSIONS AND RECOMMENDATIONS

Asbestos

Analysis of bulk samples collected from the Buildings 1, 2, and 3, of the 1055 Arden Avenue SW site indicated that asbestos is present in quantities of 1% or greater in the following building components:

Building 1

> 2' x 4' Lay-in Ceiling Tile: Approximately 5,900 square feet was observed in the receiving office, first floor offices and 2nd floor offices.

> 9" x 9" Tan Floor Tile and Mastic: Approximately 2,000 square feet was observed in the receiving office and first floor offices.

> 1' x 1' Grey Floor Tile and Mastic: Approximately 1,000 square feet was observed in the Northwest 2nd Floor office areas.

> 1' x 1' Tan Floor Tile and Mastic: Approximately 1,000 square feet was observed in the Southeast 2nd Floor office areas.

> 1' x 1' Grey Floor Tile and Mastic: Approximately 1,000 square feet was observed in the Southeast 1st Floor office areas.

Building 2

> Roofing Systems (flashings, mastics and field): Approximately 5,760 square feet of roofing materials assumed as ACM.

Building 3

> 1' x 1' Tan Floor Tile and Mastic over 9" x 9" Green Floor Tile and Mastic: Approximately 150 square feet was observed in the Main Office area.

> 9" x 9" Green Floor Tile and Mastic: Approximately 150 square feet was observed in the shop office area.

> Cement Flash Block: Approximately fourteen (14) electrical panels observed in the shop area.

> Roofing Systems (flashings, mastics and field): Approximately 5,576 square feet of roofing materials assumed as ACM.

These materials are regulated by State and Federal regulations and should be removed by a licensed asbestos abatement contractor and disposed of as asbestos containing materials.

Laboratory analysis of the bulk samples collected from Building 3 indicated that asbestos is present in quantities of <1% in the following materials:

> Gypsum Wall Board Joint Compound (walls and ceilings): Approximately 900 square feet of gypsum wall and ceiling was observed in the main office, restrooms and shop office areas.

Materials with reported asbestos concentrations less than one percent asbestos are not considered ACM for the purpose of disposal. However in accordance with the OSHA Construction Asbestos Standard, 29 CFR 1926.1101 any material with asbestos-content is considered regulated by OSHA and contractors are required to comply with the regulations including but not limited to: regulated areas, negative exposure assessments (NEA), employee exposure monitoring, personnel protective equipment (PPE), and wet removal/disposal methods.

According to the EPA, samples with reported asbestos contents between trace to 10% asbestos should either be submitted for analysis utilizing the point count method or must be considered ACM unless/until determined otherwise through point count analysis. Materials with reported asbestos concentrations greater than one percent asbestos are considered ACM and must be handled according to OSHA, USEPA, and applicable state and local regulations if disturbed. Materials identified in this survey as being in good condition at the time of the survey do not pose an immediate concern for fiber release. However, care should be taken when working on or around ACM so that these materials are not disturbed. Damaged or Significantly Damaged materials should be repaired or removed by licensed/trained asbestos personnel. Licensed/trained asbestos personnel should remove any ACM that is to be disturbed by the planned renovations from the facility. ATC recommends that all the undamaged ACM identified in the tables above be maintained under a written Operations and Maintenance (O&M) program, by suitably trained personnel, until renovation necessitates removal or until the building is demolished.

ATC's inspection was non-destructive in nature and Contractors and employees working in this building should be made aware of the possibility that concealed ACM may be found during renovation/demolition. They should be advised not to disturb known or suspect ACM without owner approval.

Any concealed building materials discovered during maintenance or renovation activities, which are suspected to contain asbestos, should be sampled and analyzed to confirm the presence of asbestos prior to disturbing.

A building owner is required under OSHA regulation to communicate information regarding the location of ACM to outside contractors, tenants and employees who occupy areas containing ACM. Subcontractors and employees working within the structures at the site should be made aware of the locations of the ACM and the possibility of concealed ACM that could be found during renovation/demolition activities in accordance with the rules and regulations of the Georgia Environmental Protection Division (GEPD).

The following recommendations should be followed for demolition projects including contracting the services of an environmental consultant to monitor/document that the demolition contractor activities comply with the GEPD, OSHA, EPA, and NESHAP requirements.

> The non-friable ACM shall not be subjected to abrasion, grinding, sanding, or any other processes during demolition, which will render these non-friable materials friable. ATC recommends that the materials identified above be removed by a GEPD licensed asbestos abatement contractor prior to demolition.

> In accordance with the Georgia Environmental Protection Division, non-friable and friable ACM can only be disposed of in a landfill that accepts asbestos-containing waste.

> Written notification is required by state and local regulations prior to beginning any work on ACM involving more than 160 continuous linear feet or 260 square feet. Send written notification, as required by the USEPA NESHAP Asbestos Regulations (40 CFR 61. Sub part m.), to the designated regional Asbestos NESHAP notification office at least 10 working days prior to beginning any work on ACM. Send notification to the following address:

>

Department of Natural Resources
Environmental Protection Division
Asbestos Licensing and Certification
4244 International Parkway, Suite 104
Atlanta, Georgia 30354
(404) 363-7026

> In accordance with 29 CFR 1926.1101, the employer shall conduct daily monitoring that is representative of the exposure of each employee who is assigned to work within a regulated area while performing Class I or Class II work, unless the employer has made a negative exposure assessment for the entire operation.

There may be additional suspect asbestos containing materials in inaccessible or concealed spaces. These spaces include, but are not limited to, pipe chases, spaces between wall/ceiling cavities, underneath carpeting, interior of mechanical components such as boiler cavities, interior ducts, etc. All such unidentified materials should be treated as Presumed Asbestos Containing Material (PACM) in accordance with 29 CFR 1926.1101 and 1910.1001.

LIMITATIONS

This report is intended for the sole use of Cardno. The intent of the report is to aid the building owner, architect, construction manager, general contractors, and potential demolition and abatement contractors in locating asbestos-containing materials. **As actual site conditions and quantities should be field verified, this report is not intended to serve as a bidding document or as a project specification document.** The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user. Although every attempt has been made to identify suspect asbestos containing materials in the areas identified, the destructive inspection technique used is inherently limited in the sense that only full demolition procedures will reveal all building materials of a structure.

Additionally, the passage of time may result in a change in the environmental characteristics at this site. This report does not warrant against future operations or conditions that could affect the recommendations made. The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during ATC's inspection of the site.

We appreciate the opportunity to be of service to Cardno, for this project and look forward to working with you on future assignments. In the meantime, if you have any questions about information in this report or if we can be of further assistance, please feel free to contact us.

Sincerely,

ATC Group Services, LLC.

Greg A. Czachor
Sr. Project Hygienist
ATC Group Services, LLC.
Direct Line +678-581-7583
Email: greg.czachor@atcassociates.com

Darryl Watson, Esq., CIH, CSP, JD
Industrial Hygiene Manager
ATC Group Services, LLC.
Direct Line +1 678 581 7646
Email: darryl.watson@atcassociates.com

Attachment A	Certifications
Attachment B	PLM Laboratory Report and Chain of Custody
Attachment D	Sample Location Diagrams

ATTACHMENT A

CERTIFICATION

The Environmental Institute

Greg Czachor

Social Security Number - XXX-XX-3196
ATC Group Services - 1841 West Oak Parkway, Suite F - Marietta, Georgia 30062

Has completed coursework and satisfactorily passed an examination that meets all criteria required for EPA/AHERA/ASHARA (TSCA Title II) Approved Reaccreditation

Asbestos in Buildings: Inspector Refresher

February 23, 2016
Course Date

15420
Certificate Number

February 23, 2016
Examination Date

February 22, 2017
Expiration Date

David W. Hogue - Principal Instructor / Training Manager

Rachel G. McCain - Exam Administrator

(Approved by the ABIH Certification Maintenance Committee for 1/2 CM point - Approval #11-577)

(Florida Provider Registration Number FL49-0001342 - Course #FL49-0002805)

TEI - 1841 West Oak Parkway, Suite F - Marietta, Georgia 30062 - (770) 427-3600 - www.tei-atl.com

ATTACHMENT B

PLM LABORATORY REPORT AND CHAIN OF CUSTODY

EMSL Analytical, Inc.

2205 Corporate Plaza Parkway SE, Suite 200 Smyrna, GA 30080
Tel/Fax: (770) 956-9150 / (770) 956-9181
http://www.EMSL.com / atlantalab@emsl.com

EMSL Order: 071603621
Customer ID: ATEC51
Customer PO:
Project ID:

Attention: Greg Czachor
ATC Group Services LLC
1841 West Oak Parkway
Suite F
Marietta, GA 30062
Project: Building 1- 1055 Arden Ave., Atlanta, GA

Phone: (770) 906-3347
Fax: (770) 427-1907
Received Date: 06/01/2016 1:55 PM
Analysis Date: 06/02/2016
Collected Date:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
AA1-01A *071603621-0001*	Spray Applied Insulation - Bldg. 1 2nd Fl. South	Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
AA1-01B *071603621-0002*	Spray Applied Insulation - Bldg. 1 1st Fl. South	Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
AA1-01C *071603621-0003*	Spray Applied Insulation - Bldg. 1 2nd Fl. East	Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
AA1-01D *071603621-0004*	Spray Applied Insulation - Bldg. 1 1st Fl. NE	Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
AA1-01E *071603621-0005*	Spray Applied Insulation - Bldg. 1 1st Fl. W	Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
AA1-01F *071603621-0006*	Spray Applied Insulation - Bldg. 1 2nd Fl. NW	Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
AA1-01G *071603621-0007*	Spray Applied Insulation - Bldg. 1 2nd Fl. SW	Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
AA1-02A *071603621-0008*	2'x4' Lay- In Ceiling Tile - Bldg. 1 2nd Fl. South	Gray Fibrous Homogeneous	15% Min. Wool	82% Non-fibrous (Other)	3% Amosite
AA1-02B *071603621-0009*	2'x4' Lay- In Ceiling Tile - Bldg. 1 1st Fl. Central	Gray Fibrous Homogeneous	15% Min. Wool	82% Non-fibrous (Other)	3% Amosite
AA1-02C *071603621-0010*	2'x4' Lay- In Ceiling Tile - Bldg. 1 Receiving Office	White Fibrous Homogeneous	10% Min. Wool	87% Non-fibrous (Other)	3% Amosite
AA1-03A *071603621-0011*	2'x2' Lay- In Ceiling Tile - Bldg. 1 1st Fl. Office Area	Various Fibrous Homogeneous	60% Cellulose 10% Min. Wool	30% Non-fibrous (Other)	None Detected
AA1-03B *071603621-0012*	2'x2' Lay- In Ceiling Tile - Bldg. 1 1st Fl. Office Area	Various Fibrous Homogeneous	50% Cellulose 10% Min. Wool	40% Non-fibrous (Other)	None Detected
AA1-04A-Floor Tile *071603621-0013*	Tan 9"x9" FT/ Mastic - Bldg. 1 Receiving	Brown Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
AA1-04A-Mastic *071603621-0013A*	Tan 9"x9" FT/ Mastic - Bldg. 1 Receiving	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
AA1-04B-Floor Tile *071603621-0014*	Tan 9"x9" FT/ Mastic - Bldg. 1 1st Fl. Offices	Brown Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
AA1-04B-Mastic *071603621-0014A*	Tan 9"x9" FT/ Mastic - Bldg. 1 1st Fl. Offices	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile

Initial Report From: 06/03/2016 16:00:58

EMSL Analytical, Inc.
2205 Corporate Plaza Parkway SE, Suite 200 Smyrna, GA 30080
Tel/Fax: (770) 956-9150 / (770) 956-9181
http://www.EMSL.com / atlantalab@emsl.com

EMSL Order: 071603621
Customer ID: ATEC51
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
AA1-05A-Floor Tile *071603621-0015*	Grey 1'x1' FT/ M - Bldg. 1 2nd Fl. NW	Tan Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
AA1-05A-Mastic *071603621-0015A*	Grey 1'x1' FT/ M - Bldg. 1 2nd Fl. NW	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
AA1-05B-Floor Tile *071603621-0016*	Grey 1'x1' FT/ M - Bldg. 1 2nd Fl. NW	Gray Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
AA1-05B-Mastic *071603621-0016A*	Grey 1'x1' FT/ M - Bldg. 1 2nd Fl. NW	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
AA1-06A-Floor Tile *071603621-0017*	Tan 1'x1' FT/ M - Bldg. 1 2nd Fl. SE	Tan Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
AA1-06A-Mastic *071603621-0017A*	Tan 1'x1' FT/ M - Bldg. 1 2nd Fl. SE	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AA1-06B-Floor Tile *071603621-0018*	Tan 1'x1' FT/ M - Bldg. 1 2nd Fl. SE	Tan Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
AA1-06B-Mastic *071603621-0018A*	Tan 1'x1' FT/ M - Bldg. 1 2nd Fl. SE	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AA1-07A-Floor Tile *071603621-0019*	1'x1' Grey FT/ M - 1st Fl. SE Bldg. 1	Gray Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
AA1-07A-Mastic *071603621-0019A*	1'x1' Grey FT/ M - 1st Fl. SE Bldg. 1	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
AA1-07B-Floor Tile *071603621-0020*	1'x1' Grey FT/ M - 1st Fl. SE Bldg. 1	Gray Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
AA1-07B-Mastic *071603621-0020A*	1'x1' Grey FT/ M - 1st Fl. SE Bldg. 1	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Anthony Sanaie (16)
Violedah Richardson (12)

Amber Baynes

Amber Baynes, Asbestos Lab Supervisor
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc Smyrna, GA NVLAP Lab Code 101048-1

Initial Report From: 06/03/2016 16:00:58

EMSL Analytical, Inc.

2205 Corporate Plaza Parkway SE, Suite 200 Smyrna, GA 30080
Tel/Fax: (770) 956-9150 / (770) 956-9181
http://www.EMSL.com / atlantalab@emsl.com

EMSL Order: 071603620
Customer ID: ATEC51
Customer PO:
Project ID:

Attention: Greg Czachor
ATC Group Services LLC
1841 West Oak Parkway
Suite F
Marietta, GA 30062
Project: 1055 Arden Ave., Atlanta, GA

Phone: (770) 906-3347
Fax: (770) 427-1907
Received Date: 06/01/2016 1:55 PM
Analysis Date: 06/02/2016
Collected Date:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
BLDG-1- AA1-08A-Cove Base *071603620-0001*	Vinyl Covebase And Mastic - Bldg. 1 1st Floor Offices	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
BLDG-1- AA1-08A-Mastic *071603620-0001A*	Vinyl Covebase And Mastic - Bldg. 1 1st Floor Offices	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
BLDG-1- AA1-08B-Cove Base *071603620-0002*	Vinyl Covebase And Mastic - Bldg. 1 Receiving Office	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
BLDG-1- AA1-08B-Mastic *071603620-0002A*	Vinyl Covebase And Mastic - Bldg. 1 Receiving Office	Brown Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
BLDG-1- AA1-09A-Cove Base *071603620-0003*	Stairtread And Mastic - Bldg. 1 1st Floor Landing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
BLDG-1- AA1-09A-Mastic *071603620-0003A*	Stairtread And Mastic - Bldg. 1 1st Floor Landing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
BLDG-1- AA1-09B-Cove Base *071603620-0004*	Stairtread And Mastic - Bldg. 1 2nd Floor Landing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
BLDG-1- AA1-09B-Mastic *071603620-0004A*	Stairtread And Mastic - Bldg. 1 2nd Floor Landing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
BLDG-2- AA2-01A *071603620-0005*	2'x4' Lay-In Ceiling Tile - Bldg. 2 Lower Level Restroom	Gray Fibrous Homogeneous	40% Cellulose 5% Min. Wool	55% Non-fibrous (Other)	None Detected
BLDG-2- AA2-01B *071603620-0006*	2'x4' Lay-In Ceiling Tile - Bldg. 2 Upper Level Restroom	Gray Fibrous Homogeneous	50% Cellulose 10% Min. Wool	40% Non-fibrous (Other)	None Detected
BLDG-2- AA2-02 *071603620-0007*	Not Sampled Roofing System - Not Accessible No Samples Collected				Not Submitted
BLDG-2- AA2-03A *071603620-0008*	Flash Block Electrical Stone Panels - Bldg. 2 West	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
BLDG-2- AA2-03B *071603620-0009*	Flash Block Electrical Stone Panels - Bldg. 2 West	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial Report From: 06/03/2016 12:59:51

EMSL Analytical, Inc.
2205 Corporate Plaza Parkway SE, Suite 200 Smyrna, GA 30080
Tel/Fax: (770) 956-9150 / (770) 956-9181
http://www.EMSL.com / atlantalab@emsl.com

EMSL Order: 071603620
Customer ID: ATEC51
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
BLDG-2- AA2-04A *071603620-0010*	Fiberous Wire Insulation - Bldg. 2 West	Various Fibrous Homogeneous	60% Glass	40% Non-fibrous (Other)	None Detected
BLDG-3- AA3-01A-Joint Compound *071603620-0011*	Drywall/ Joint Compound Walls/ Ceiling - Bldg. 3 Main Office	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
BLDG-3- AA3-01A-Drywall *071603620-0011A*	Drywall/ Joint Compound Walls/ Ceiling - Bldg. 3 Main Office	Gray Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
BLDG-3- AA3-01B-Joint Compound *071603620-0012*	Drywall/ Joint Compound Walls/ Ceiling - Bldg. 3 Restrooms	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
BLDG-3- AA3-01B-Drywall *071603620-0012A*	Drywall/ Joint Compound Walls/ Ceiling - Bldg. 3 Restrooms	Gray Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
BLDG-3- AA3-01C-Joint Compound *071603620-0013*	Drywall/ Joint Compound Walls/ Ceiling - Bldg. 3 Shop Office	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	1<% Chrysotile
BLDG-3- AA3-01C-Drywall *071603620-0013A*	Drywall/ Joint Compound Walls/ Ceiling - Bldg. 3 Shop Office	Gray Non-Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
BLDG-3- AA3-02A-Floor Tile 1 *071603620-0014*	1'x1' Tan Over Grey 9"x9" FT/ M (2 Layers) - Bldg. 3 Main Office	Tan Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
BLDG-3- AA3-02A-Mastic 1 *071603620-0014A*	1'x1' Tan Over Grey 9"x9" FT/ M (2 Layers) - Bldg. 3 Main Office	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
BLDG-3- AA3-02A-Floor Tile 2 *071603620-0014B*	1'x1' Tan Over Grey 9"x9" FT/ M (2 Layers) - Bldg. 3 Main Office	Green Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
BLDG-3- AA3-02A-Mastic 2 *071603620-0014C*	1'x1' Tan Over Grey 9"x9" FT/ M (2 Layers) - Bldg. 3 Main Office	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
BLDG-3- AA3-02B-Floor Tile *071603620-0015*	1'x1' Tan Over Grey 9"x9" FT/ M (2 Layers) - Bldg. 3 Main Office	Tan Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
BLDG-3- AA3-02B-Mastic *071603620-0015A*	1'x1' Tan Over Grey 9"x9" FT/ M (2 Layers) - Bldg. 3 Main Office	Black Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
BLDG-3- AA3-03A-Floor Tile *071603620-0016*	9"x9" Green FT/ M - Bldg. 3 Receiving	Green Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
BLDG-3- AA3-03A-Mastic *071603620-0016A*	9"x9" Green FT/ M - Bldg. 3 Receiving	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial Report From: 06/03/2016 12:59:51

EMSL Analytical, Inc.
2205 Corporate Plaza Parkway SE, Suite 200 Smyrna, GA 30080
Tel/Fax: (770) 956-9150 / (770) 956-9181
http://www.EMSL.com / atlantalab@emsl.com

EMSL Order: 071603620
Customer ID: ATEC51
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
BLDG-3- AA3-03B-Floor Tile *071603620-0017*	9"x9" Green FT/ M - Bldg. 3 Receiving	Green Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
BLDG-3- AA3-03B-Mastic *071603620-0017A*	9"x9" Green FT/ M - Bldg. 3 Receiving	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
BLDG-3- AA3-04A *071603620-0018*	Cement Flash Block Electrical Panels - Bldg. 3 West	Gray Fibrous Homogeneous		70% Non-fibrous (Other)	30% Chrysotile
BLDG-3- AA3-04B *071603620-0019*	Cement Flash Block Electrical Panels - Bldg. 3 East	Gray Fibrous Homogeneous		75% Non-fibrous (Other)	25% Chrysotile
BLDG-3- AA3-05A *071603620-0020*	Window Glaze - Bldg. 3 Receiving	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
BLDG-3- AA3-05B *071603620-0021*	Window Glaze - Bldg. 3 Shop Area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Anthony Sanaie (19)
Lorainne Rodriguez-Vargas (11)
Violedah Richardson (3)

Amber Baynes, Asbestos Lab Supervisor
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc Smyrna, GA NVLAP Lab Code 101048-1

Initial Report From: 06/03/2016 12:59:51

ATTACHMENT C

LEAD LABORATORY REPORT AND CHAIN OF CUSTODY

OrderID: 071603621

ATC

Bulk Sampling Field Sheet 071603621

Project Name: BUILDING 1055 ARNEW AVE SW
Project Location: ATLANTA GA
Project Number:
Project Manager: [illegible]

ATC Sample No.	Sample Description	Material Type	Sample Location	Quantity	H.A. Designation	Results
AA1-01A	SPRAY APPLIED INSULATION		BLDG 1 2ND FL SE	20,000SF		
AA1-01B	↓		BLDG 1 ~~1ST~~ FL SOUTH	↓		
AA1-01C			BLDG 1 2ND FL EAST			
AA1-01D			BLDG 1 ~~1ST~~ FL NE			
AA1-01E			BLDG 1 ~~1ST~~ FL W			
AA1-01F			BLDG 1 2ND FL NW			
AA1-01G			BLDG 1 2ND FL SW			
AA1-02A	2'x4' LAY IN CEILING TILE		BLDG 1 2ND FL SOUTH ~~2ND~~	9000SF		
AA1-02B	↓		BLDG 1 1ST FL CENTRAL	↓		
AA1-02C			BLDG 1 RECEIVING OFFICE			
AA1-03A	2'x2' LAY IN CEILING TILE		BLDG 1 1ST FL OFFICE AREA	1500SF		
AA1-03B	↓		BLDG 1 1ST FL OFFICE AREA	↓		
AA1-04A	TAN 9"x9" FT/ MASTIC		BLDG 1 RECEIVING	2000SF		
AA1-04B	TAN 9" X9" FT/MASTIC		BLDG 1 1ST FL OFFICES	↓		
AA1-05A	GREY 1'x1' FT/M		BLDG 1 2ND FL NW	1000SF		
AA1-05B	GREY 1'x1' FT/M		BLDG 1 2ND FL NW	↓		
AA1-06A	TAN 1'x1' FT/M		BLDG 1 2ND FL SE	1,000SF		
AA1-06B	↓		↓	↓		
AA1-07A	1'x1' GREY FT/M		1ST FLOOR SE BLDG 1	1000SF		
AA1-07B	↓		1ST FLOOR SE BLDG 1	↓		

Notes: N ③ ② ① 25T

REQUESTED ANALYSIS: PLM / Point Count / TEM / Positive Stop
REQUESTED TURNAROUND TIME: Same Day / Next Day / 3 Day / 3-5 Day

CHAIN OF CUSTODY RECORD

COLLECTED BY:		DATE/TIME
TRANSPORTED BY:		DATE/TIME: 6/1/2016
RELINQUISHED BY:		DATE/TIME
LAB CUSTODY:		DATE/TIME: 6-1-16 1:55
LAB ANALYSIS:		DATE/TIME

OrderID: 071603620

ATC

Bulk Sampling Field Sh 071603620

Project Name: 1055 ARDEN AVE
Project Location: ATLANTA GA
Project Number:
Project Manager: Greg Crawford

	ATC Sample No.	Sample Description	Material Type	Sample Location	Quantity	H.A. Designation	Results
BLDG 1	AA1-08A	VINYL COVERING AND MASTIC		BLDG 1 1ST FLOOR OFFICES	1,000LF		
	AA1-08B	↓		BLDG 1 RECEIVING OFFICE	↓		
	AA1-09A	STAIR TREAD AND MASTIC		BLDG 1 1ST FLOOR LANDING	150SF		
	AA1-09B	↓		BLDG 1 2ND FLOOR LANDING	↓		
BLDG 2	AA2-01A	2'x4' LAY-IN CEILING TILE		BLDG 2 LOWER LEVEL RESTROOM	500SF		
	AA2-01B	↓		BLDG 2 UPPER LEVEL REST ROOM	250SF		
	AA2-02	NOT SAMPLED ROOFING SYSTEM		NOT ACCESSIBLE NO SAMPLES COLLECTED			
	AA2-03A	FLASH BLOCK ELECTRICAL SERVICE PANELS		BLDG 2 WEST	4 UNITS		
	AA2-03B	↓		BLDG 2 ~~WEST~~	↓		
	AA2-04A	FIBERGLASS WIRE INSULATION		BLDG 2 WEST	UNKNOWN		
BLDG 3	AA3-01A	DRYWALL/JOINT COMPOUND		BLDG 3 MAIN OFFICE	700SF		
	AA3-01B	WALLS/CEILING		BLDG 3 REST ROOMS	↓		
	AA3-01C	↓		BLDG 3 SHOP OFFICE	↓		
	AA3-02A	1'x1' TAN OVER GREEN 9"x9" FT/M (2 LAYERS)		BLDG 3 MAIN OFFICE	150SF		
	AA3-02B	↓		BLDG 3 MAIN OFFICE	↓		
	AA3-03A	9"x9" GREEN FT/M		BLDG 3 RECEIVING	150SF		
	AA3-03B	↓		BLDG 3 RECEIVING	↓		
	AA3-04A	CEMENT FLASH BLOCK ELECTRICAL PANELS		BLDG 3 WEST	14 PANELS		
	AA3-04B			BLDG 3 ~~WEST~~ EAST	↓		
	AA3-05A	WINDOW GLAZE		BLDG 3 RECEIVING	6 WINDOWS		

Notes:

REQUESTED ANALYSIS: PLM / Point Count / TEM / Positive Stop
REQUESTED TURNAROUND TIME: Same Day / Next Day / 3 Day / 3-5 Day

CHAIN OF CUSTODY RECORD

COLLECTED BY:		DATE/TIME:
TRANSPORTED BY:		DATE/TIME: 6/1/2016
RELINQUISHED BY:	Tim Bryant	DATE/TIME:
LAB CUSTODY:		DATE/TIME: 6-1-16 1:55
LAB ANALYSIS:		DATE/TIME:

OrderID: 071603620

ATC

Bulk Sampling Field Sheet

Project Name: 1055 ARMRD AVE
Project Location: ATLANTA GA
Project Number:
Project Manager: [illegible]

ATC Sample No.	Sample Description	Material Type	Sample Location	Quantity	H.A. Designation	Results
AA3-05	WINDOW GLAZE		BLDG 3 SHED AREA	INCLUDED WITH OSA		

Notes:

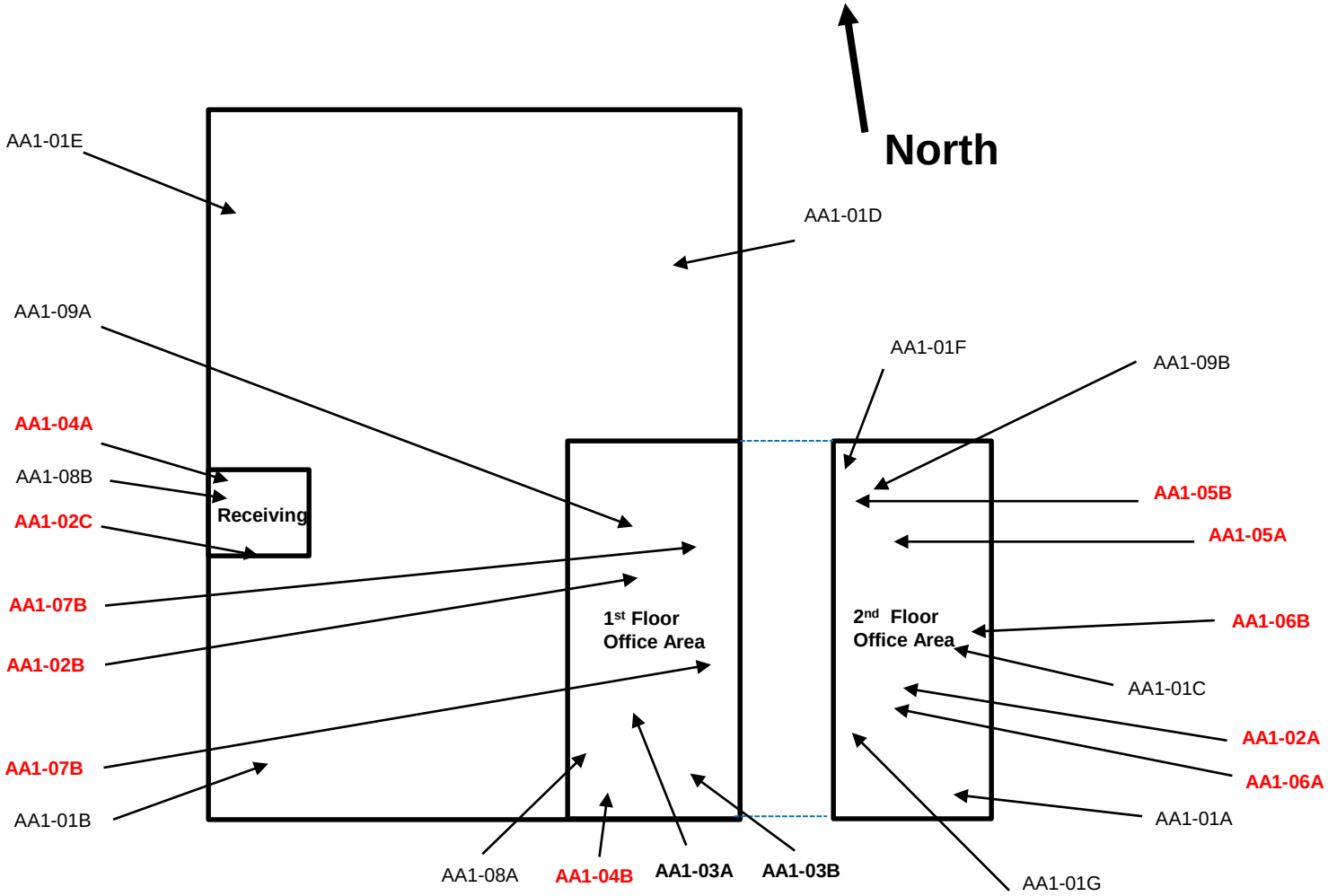
REQUESTED ANALYSIS: PLM / Point Count / TEM / Positive Stop
REQUESTED TURNAROUND TIME: Same Day / Next Day / 3 Day / 3-5 Day

CHAIN OF CUSTODY RECORD

COLLECTED BY: DATE/TIME:
TRANSPORTED BY: DATE/TIME:
RELINQUISHED BY: DATE/TIME: 6/1/16
LAB CUSTODY: DATE/TIME:
LAB ANALYSIS: DATE/TIME:

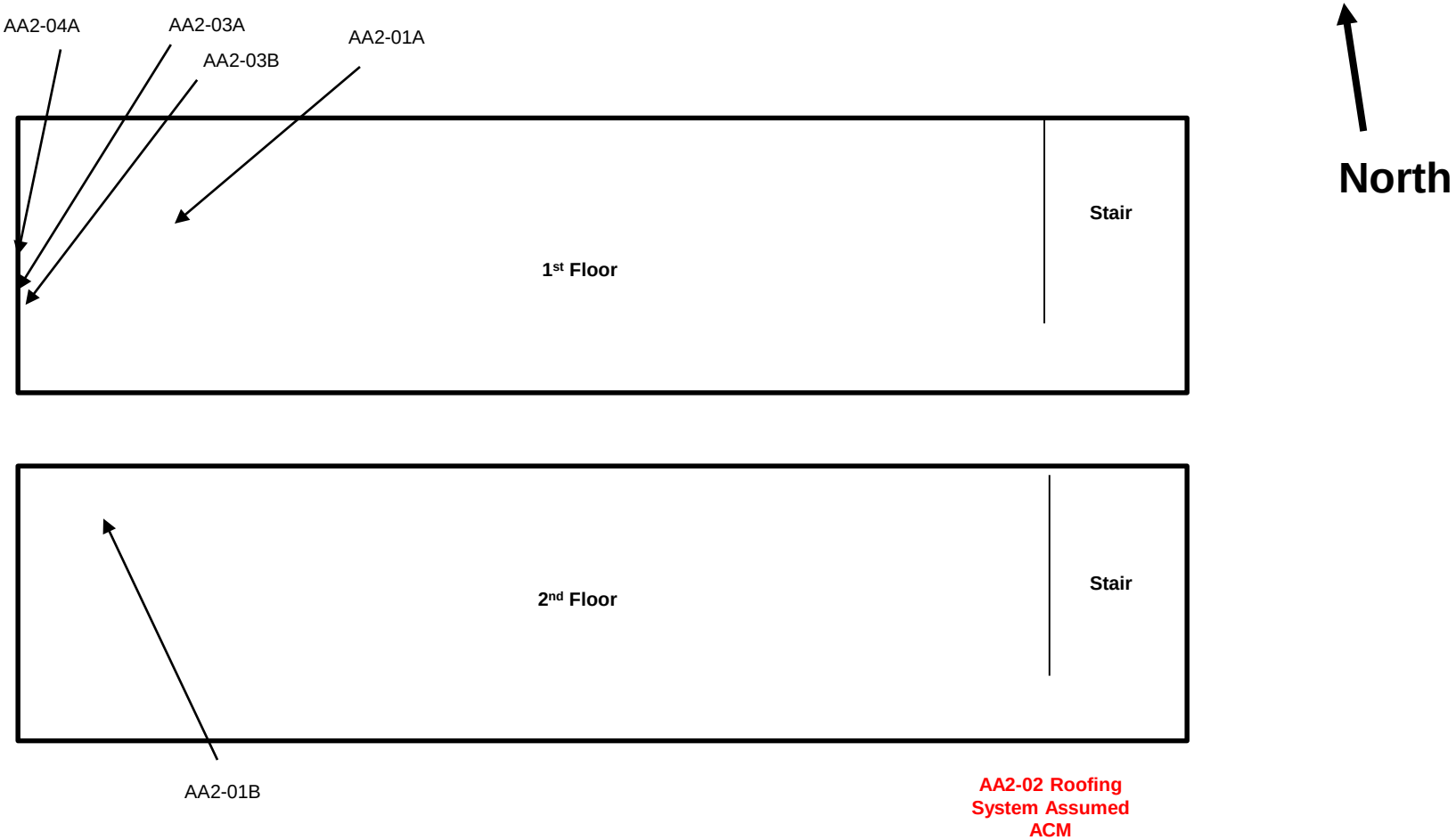
ATTACHMENT D

SAMPLE LOCATION DIAGRAMS



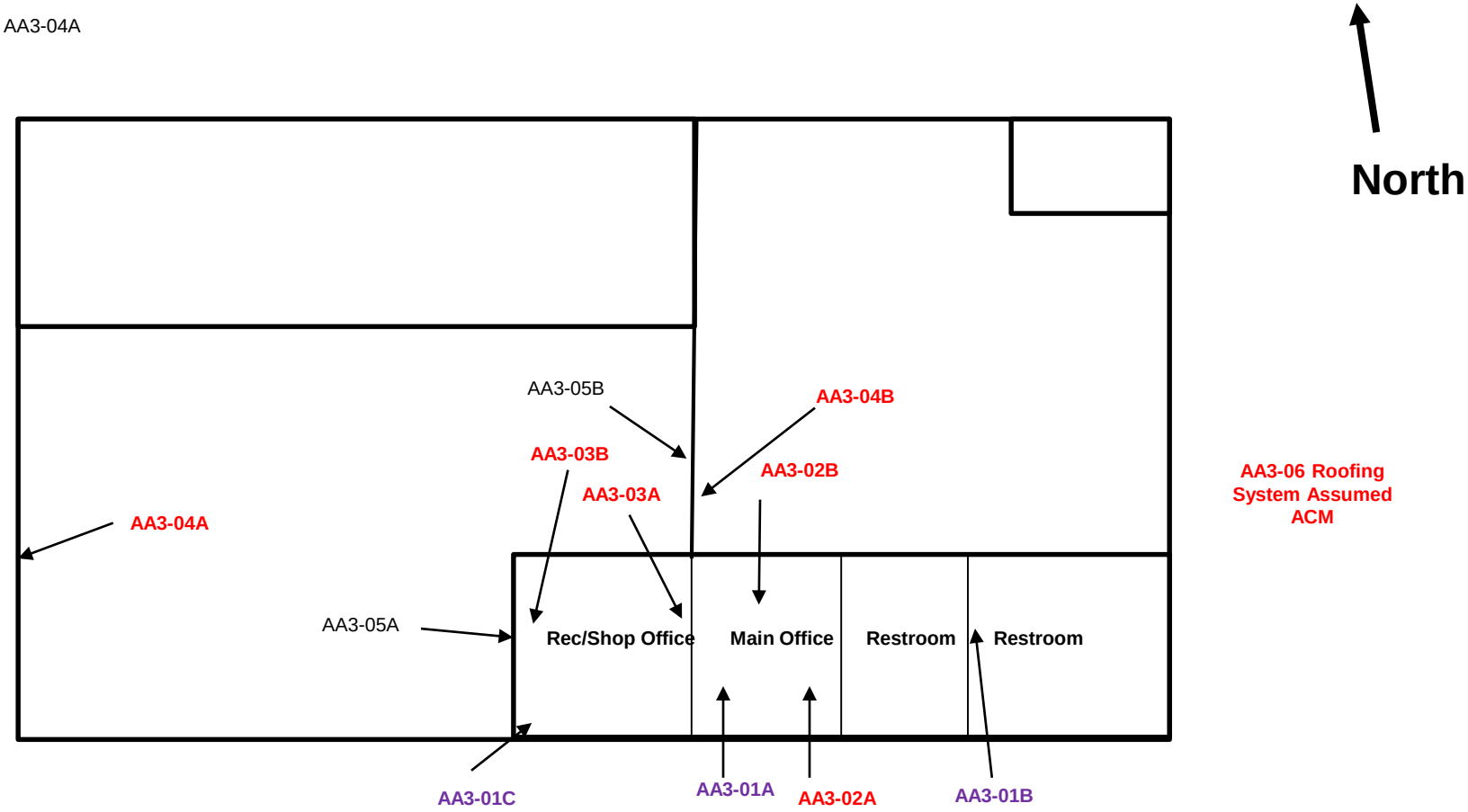
Note: Sample Locations are Approximate

Legend				
Negative Sample Location Trace <1% Sample Location Positive Sample Location	ATC Group Services, LLC	Asbestos Inspection Report 1055 Arden Avenue SW Atlanta, Georgia ATC Project Number Z070000272		
		Building 1	Survey Date: June 1, 2016	Scale: Not To Scale



Note: Sample Locations are Approximate

Legend				
Negative Sample Location Trace <1% Sample Location Positive Sample Location	ATC Group Services, LLC	Asbestos Inspection Report 1055 Arden Avenue SW Atlanta, Georgia ATC Project Number Z070000272		
		Building 2	Survey Date: June 1, 2016	Scale: Not To Scale



Note: Sample Locations are Approximate

Legend				
Negative Sample Location Trace <1% Sample Location Positive Sample Location	ATC Group Services, LLC	Asbestos Inspection Report 1055 Arden Avenue SW Atlanta, Georgia ATC Project Number Z070000272		
		Building 3	Survey Date: June 1, 2016	Scale: Not To Scale

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